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Proceedings

(284)

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LETTER

FROM THE

SECRETARY OF THE TREASURY,

TRANSMITTING

ESTIMATES OF APPROPRIATIONS

REQUIRED FOR THE

SERVICE OF THE FISCAL YEAR ENDING JUNE 30, 1877.

LETTER

FROM THE

SECRETARY OF THE TREASURY

TO THE

ESTIMATES OF THE



FOR THE

SERVICE OF THE FIRST YEAR ENDING JAN 30 1871

WASHINGTON

GOVERNMENT PRINTING OFFICE

1871

LETTER
FROM
THE SECRETARY OF THE TREASURY,

TRANSMITTING

*Estimates of appropriations required for the service of the fiscal year
ending June 30, 1877.*

TREASURY DEPARTMENT,
December 6, 1875.

SIR: In conformity to the requirements of sections 3669, 3670, and 3672 of the Revised Statutes, I have the honor to transmit, for the information of Congress, the estimates of appropriations required for the service of the fiscal year ending June 30, 1877, as furnished by the several Executive Departments; also, statements showing the balances of appropriations unexpended on the 30th of June, 1875; the amounts appropriated for the service of the fiscal year ending June 30, 1876; the net expenditures for the quarter ended September 30, 1875; the estimated amounts that may be required to complete the service of the year, or of prior years, or that may be carried to the surplus fund; the "proceeds of Government property;" the expenditures of the moneys appropriated for contingent expenses of the Independent Treasury for the fiscal year 1875, by acts of Congress, approved March 3, 1875; and a combined statement of the receipts and disbursements of the Government by appropriations, exclusive of the principal of the public debt, for the fiscal year ended June 30, 1875, showing the *apparent* and *actual* revenues and expenses of each branch of the service.

I have the honor to be,

Very respectfully, your obedient servant,

B. H. BRISTOW,

Secretary.

To the Hon. SPEAKER OF THE HOUSE OF REPRESENTATIVES.

LETTER

FROM

THE SECRETARY OF THE TREASURY.

TRANSMITTING

Estimates of appropriations required for the service of the fiscal year

ending June 30, 1877.

TREASURY DEPARTMENT,

Washington, D. C.

That in conformity to the requirements of sections 2069, 2070 and 2071 of the Revised Statutes, I have the honor to transmit for the information of Congress the estimates of appropriations required for the service of the fiscal year ending June 30, 1877, as furnished by the several Executive Departments. The amounts also statements showing the balance of appropriations unexpended on the 30th of June, 1876; the amounts appropriated for the service of the fiscal year ending June 30, 1876; the net expenditures for the year ended September 30, 1875; the estimated amounts that may be required to complete the service of the year or of prior years, or that may be carried to the surplus fund; the amount of Government property; the expenditures of the money appropriated for contingent expenses of the United States Treasury for the fiscal year 1876, by acts of Congress, approved March 3, 1875; and a condensed statement of the receipts and disbursements of the Government by appropriations, classified in the principal of the public debt for the fiscal year ended June 30, 1876, showing the general and actual receipts and payments of each branch of the service.

I have the honor to be,

Very respectfully, your obedient servant,

R. M. HENKINSON

Secretary

To the Hon. Speaker of the House of Representatives.

ESTIMATES FOR 1876-'77.

CIVIL ESTABLISHMENT.

FOREIGN INTERCOURSE.

MILITARY ESTABLISHMENT.

NAVAL ESTABLISHMENT.

INDIAN AFFAIRS.

PENSIONS.

PUBLIC WORKS.

POSTAL SERVICE.

MISCELLANEOUS.

PERMANENT APPROPRIATIONS.

RECAPITULATION.

APPENDIX.

PROCEEDS OF GOVERNMENT PROPERTY.

UNEXPENDED BALANCES.

CONTINGENT EXPENSES, INDEPENDENT TREASURY.

RECEIPTS AND DISBURSEMENTS.

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CIVIL ESTABLISHMENT.

CIVIL ESTABLISHMENT.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
LEGISLATIVE.							
UNITED STATES SENATE.							
Salaries and Mileage of Senators—							
Compensation of seventy-four Senators, at \$5,000 each	Mar. 3, 1875	18	344	1	\$370,000 00	\$400,000 00	\$400,000 00
Mileage	do				30,000 00		
Salaries, Officers and Employés, Senate—							
Secretary of the Senate	Mar. 3, 1875	18	344	1	4,320 00	146,068 80	146,268 80
Officer charged with the disbursements	do				576 00		
Chief clerk	do				3,000 00		
Additional to chief clerk, (while said office is held by present incumbent)	do				1,000 00		
Principal clerk	do				3,000 00		
Principal executive clerk	do				3,000 00		
Minute and journal clerk	do				3,000 00		
Financial clerk	do				3,000 00		
Librarian	do				2,220 00		
Seven clerks, at \$2,220 each	do				15,540 00		
Clerk of printing records	do				2,220 00		
Five clerks, at \$2,100 each	do				10,500 00		
Keeper of stationery	do				2,102 40		
Assistant keeper of stationery	do				1,800 00		
Messenger	do				1,296 00		
Special policeman	do				1,296 00		
Chaplain	do				900 00		
Secretary to the Vice-President	do				2,102 40		
Clerk to Committee on Finance	do				2,220 00		
Clerk to Committee on Claims	do				2,220 00		
Clerk to Committee on Appropriations	do				2,220 00		
Clerk to Committee on Commerce	do				2,220 00		
Clerk to Committee on the Judiciary	do				2,220 00		
Clerk to Committee on Private Land Claims	do				2,220 00		
Telegraph operator, at the rate of \$100 per month during session of Congress	Feb. 4, 1874	18	14	1	500 00		
	Mar. 3, 1875	18	344	1			
Sergeant-at-arms and doorkeeper	Mar. 3, 1875	18	344	1	4,320 00		
Assistant doorkeeper	do				2,592 00		
Acting assistant doorkeeper	do				2,592 00		
Postmaster	do				2,100 00		
Assistant postmaster	do				2,088 00		
Two mail carriers, at \$1,200 each	do				2,400 00		
Superintendent of document room	do				2,160 00		
Two assistants in document room, at \$1,440 each	do				2,880 00		
Superintendent of folding room	do				2,160 00		
Three messengers, acting as assistant doorkeepers, at \$1,800 each	do				5,400 00		
Twenty messengers, at \$1,440 each	do				28,800 00		
Laborer in charge of private passage	do				864 00		
Laborer in charge of ladies' room	do				720 00		
Chief engineer	do				2,160 00		
Four assistant engineers, at \$1,440 each	do				5,760 00		
Two firemen, at \$1,095 each	do				2,190 00		
Three laborers, at \$730 each	do				2,190 00		
Contingent Expenses, Senate—							
Stationery and newspapers for 74 Senators, (including \$5,000 for stationery for committees and officers of the Senate)	Appropriated.	18	345	1	14,250 00	147,290 00	168,640 00
Clerks to committees	do				20,000 00		
Pages	do				7,000 00		
Horses and wagons	do				6,000 00		
Fuel and oil for heating apparatus	do				10,000 00		
Furniture and repairs	do				10,000 00		
Labor	do				18,000 00		
Folding documents and materials	do				10,000 00		
Packing-boxes	do				740 00		
Miscellaneous items, exclusive of labor	do				25,000 00		
Capitol police, viz: Captain, \$2,000; three lieutenants, at \$1,600 each; 27 privates, at \$1,400 each; and eight watchmen, at \$1,000 each—in all, \$52,600, one-half of which is estimated for and paid by the House of Representatives	Mar. 3, 1875	R. S. 18	323 345	1821 1	26,300 00		
Expenses of Compiling and Preparing Congressional Directory—							
Expenses of compiling and preparing Congressional Directory, to be expended under the direction of the Joint Committee on Public Printing	Mar. 3, 1875	R. S. 18	14 345	77 1		1,200 00	1,200 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
HOUSE OF REPRESENTATIVES.							
<i>Salaries and Mileage of Members and Delegates—</i>							
Salaries of members of the House of Representatives.....	Mar. 3, 1875	18	345	1	\$1,550,000 00	\$1,650,000 00	\$1,650,000 00
Mileage of members of the House of Representatives.....	do.				100,000 00		
<i>Salaries, Officers and Employés, House of Representatives—</i>							
Clerk of the House.....	Mar. 3, 1875	18	345	1	\$4,320 00	197,794 70	227,074 70
Officer charged with disbursing the contingent fund.....	do.				576 00		
Chief clerk and journal clerk, at \$3,600 each.....	do.				7,200 00		
Two reading clerks, assistant journal clerk, and tally clerk, at \$3,000 each.....	do.				12,000 00		
Four assistant clerks, at \$2,592 each.....	do.				10,368 00		
Eight assistant clerks, including librarian and assistant librarian, at \$2,160 each.....	do.				17,280 00		
One assistant clerk.....	do.				2,520 00		
Four assistant clerks, at \$1,800 each.....	do.				7,200 00		
Chief messenger, in office of Clerk of the House, at \$5 76 per day.....	do.				2,102 40		
Superintendent of document room of Clerk of the House.....	do.				1,800 00		
Three messengers, including messenger in library, at \$1,440 each.....	do.				4,320 00		
One engineer.....	do.				1,800 00		
Three assistant engineers, at \$1,440 each.....	do.				4,320 00		
Six firemen, at \$1,095 each.....	do.				6,570 00		
Clerk to Committee on Ways and Means.....	do.				2,592 00		
Messenger to Committee on Ways and Means.....	do.				1,314 00		
Clerk to Committee on Appropriations.....	do.				2,592 00		
Messenger to Committee on Appropriations.....	do.				1,314 00		
Clerk to Committee on Claims.....	do.				2,160 00		
Clerk to Committee on War Claims.....	do.				2,160 00		
Clerk to Committee on Public Lands.....	do.				2,160 00		
Clerk at Speaker's table, at \$5 76 per day.....	do.				2,102 40		
Private secretary to the Speaker.....	do.				2,102 40		
Sergeant-at-arms of the House of Representatives.....	do.				4,320 00		
Clerk to sergeant-at-arms.....	do.				2,500 00		
Paying-teller to sergeant-at-arms.....	do.				2,100 00		
Messenger to sergeant-at-arms.....	do.				1,440 00		
Doorkeeper of the House of Representatives.....	do.				2,592 00		
Assistant doorkeeper.....	do.				2,592 00		
Postmaster of the House of Representatives.....	do.				2,592 00		
Assistant postmaster.....	do.				2,088 00		
Seven messengers, at \$1,500 each.....	do.				10,500 00		
Seven messengers, at \$1,200 each.....	do.				8,400 00		
Chaplain of the House of Representatives.....	do.				900 00		
Two stenographers for committees, at \$5,000 each.....	June 22, 1874	18	145	1	10,000 00		
One telegraph operator during session of Congress, (four months,) at \$100 per month.....	Feb. 4, 1874	18	14	1	400 00		
Superintendent of the folding room.....	Mar. 3, 1875	18	345	1	2,160 00		
Superintendent and assistant of the document room, at \$2,160 each.....	do.				4,320 00		
Document-file clerk.....	do.				1,800 00		
Five messengers, at \$1,800 each.....	do.				9,000 00		
Six messengers, at \$1,440 each.....	do.				8,640 00		
Twelve messengers during session of Congress, (four months,) at \$1,440 each per annum.....	do.				5,760 00		
Fifteen laborers, at \$720 each.....	do.				10,800 00		
Seven laborers during session of Congress, (four months,) at \$720 each per annum.....	do.				1,680 00		
One laborer.....	do.				820 00		
One laborer.....	do.				917 50		
One woman for attending in ladies' retiring-room.....	do.				600 00		
<i>Contingent Expenses, House of Representatives—</i>							
Clerks to committees.....	Appropriated.	18	346	1	17,500 00	197,794 70	227,074 70
Folding documents, including pay of folders and materials.....	do.				50,000 00		
Fuel.....	do.				10,500 00		
Horses and carriages.....	do.				5,475 00		
Furniture and repairs of furniture.....	do.				10,000 00		
Packing-boxes.....	do.				3,020 00		
Cartage.....	do.				3,000 00		
Miscellaneous items.....	do.				28,000 00		
Newspapers and stationery for Members of the House of Representatives, committees of the House, and the officers of the House.....	do.				43,750 00		
Twenty-eight pages, including three riding pages, at \$2 50 each per day.....	do.				8,540 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Contingent Expenses, House of Representatives—Continued.</i>							
Capitol police, viz: Captain, \$2,000; three lieutenants, at \$1,600 each; twenty-seven privates, at \$1,400 each; and eight watchmen, at \$1,000 each—in all, \$52,600, one-half of which is estimated for and paid by the Senate	Mar. 3, 1875	R. S. 18	323 345	1821 1	} \$26,300 00	\$206,085 00	\$208,585 00
OFFICE OF THE CONGRESSIONAL PRINTER.							
<i>Salaries, Office of Congressional Printer—</i>							
Congressional Printer.....	Mar. 3, 1875	R. S. 18	747 347	3759 1	} \$4,000 00		
Four clerks, at \$1,800 each	Mar. 3, 1875	R. S. 18	747 347	3762 1	} 7,200 00		
One clerk	do				} 1,400 00		
One clerk, to keep accounts of Congressional Record	June 23, 1874	18	223	1	} 1,200 00		
	Mar. 3, 1875	18	347	1	} 1,200 00		
Messenger, at \$3 60 per day.....	July 20, 1854	10	594	1	} 1,314 00		
	Mar. 3, 1875	18	347	1	} 1,314 00		
						15,114 00	15,117 60
<i>Contingent Expenses, Office of Congressional Printer—</i>							
Stationery, postage, advertising, travelling expenses, horses and wagons, and miscellaneous items	Appropriated.	18	347	1	.....	2,500 00	2,500 00
LIBRARY OF CONGRESS.							
<i>Salaries, Library of Congress—</i>							
One librarian.....	Mar. 3, 1875	R. S. 18	15 347	90 1	} 4,000 00		
Three assistant librarians, at \$2,500 each	Mar. 3, 1875	18	347	1	} 7,500 00		
Two assistant librarians, at \$1,800 each	do				} 3,600 00		
Three assistant librarians, at \$1,600 each	do				} 4,800 00		
Two assistant librarians, at \$1,440 each	do				} 2,880 00		
Three assistant librarians, at \$1,200 each	do				} 3,600 00		
Two assistant librarians, at \$1,000 each	do				} 2,000 00		
One assistant librarian	do				} 960 00		
						29,340 00	29,340 00
<i>Increase, Library of Congress—</i>							
Purchase of books	Appropriated.	18	347	1	9,000 00		
Purchase of law books	do				2,000 00		
Purchase of files of periodicals and newspapers	do				2,500 00		
Expenses of exchanging public documents for publications of foreign governments	do				1,500 00		
						15,000 00	15,000 00
<i>Contingent Expenses, Library of Congress—</i>							
Miscellaneous items	Appropriated.	18	347	1	2,000 00		
Copyright business of Library	do				500 00		
						2,500 00	2,500 00
BOTANIC GARDEN.							
<i>Salaries, Botanic Garden—</i>							
Superintendent and assistants in botanic garden and greenhouses, under direction of the Joint Library Committee of Congress.....	Mar. 3, 1875	R. S. 18	324 347	1827 1	}	12,146 00	12,146 00
<i>Improving Botanic Garden—</i>							
Grading, draining, procuring manure, tools, fuel, and repairs, and purchasing trees and shrubs, under direction of the Joint Library Committee of Congress	Appropriated.	18	347	1	.....	5,000 00	7,900 00
COURT OF CLAIMS.							
<i>Salaries, Judges, &c., Court of Claims—</i>							
Five judges, at \$4,500 each.....	Mar. 3, 1875	R. S. 18	194 369	1049 1	} 22,500 00		
Chief clerk	Mar. 3, 1875	R. S. 18	194 369	1054 1	} 3,000 00		
Assistant clerk	do				} 2,000 00		
Bailiff	do				} 1,500 00		
Messenger	do				} 840 00		
Stenographer	Submitted				1,500 00		
						31,340 00	29,840 00
<i>Reporting Decisions, Court of Claims—</i>							
Reporting decisions of the court, clerical hire, and labor in preparing and superintending the printing of the 11th volume of Court of Claims Reports	Mar. 3, 1875	R. S. 18	195 369	1054 1	}	1,000 00	2,000 00
<i>Contingent Expenses, Court of Claims—</i>							
Stationery, books, fuel, postage, and other miscellaneous expenses	Appropriated.	18	369	1	.....	3,000 00	3,000 00
Total Legislative						2,865,378 50	2,921,112 10

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
EXECUTIVE PROPER.							
THE PRESIDENT.							
Salary of the President—							
Compensation of the President of the United States	Mar. 3, 1875	R. S. 18	23 348	152-3 1	\$50,000 00	\$50,000 00	
THE VICE-PRESIDENT.							
Salary of the Vice-President—							
Compensation of the Vice-President of the United States	Mar. 3, 1875	R. S. 18	24 348	152 1	8,000 00	8,000 00	
EXECUTIVE OFFICE.							
Salaries, Executive Office—							
Private secretary	Mar. 3, 1875	R. S. 18	24 348	155 1	\$3,500 00	13,800 00	13,800 00
Assistant secretary	do.				2,500 00		
Two executive clerks, at \$2,300 each	do.				4,600 00		
Steward	do.				2,000 00		
Messenger	do.				1,200 00		
Contingent Expenses, Executive Office—							
Stationery, record books, telegrams, periodicals and books for library, miscellaneous items, and contingencies	Appropriated.	18	348	1	6,000 00	6,000 00	
Postage, Executive Office—							
Official postage stamps	Appropriated.	18	348	1	600 00	600 00	
Total Executive Proper					78,400 00	78,400 00	
DEPARTMENT OF STATE.							
OFFICE OF THE SECRETARY.							
Salaries, Department of State—							
Secretary	Mar. 3, 1875	R. S. 18	31 348	199 1	8,000 00	\$135,360 00	\$126,980 00
Assistant Secretary	Mar. 3, 1875	R. S. 18	31 348	200 1	3,500 00		
Second Assistant Secretary	Mar. 3, 1875	18	348	1	3,500 00		
Third Assistant Secretary	June 20, 1874	18	90	1	3,500 00		
Chief clerk	Mar. 3, 1875	R. S. 18	31 348	201 1	2,500 00		
Six chiefs of bureaus (consular, diplomatic, accounts, rolls and library, statistics, and indexes and archives) and one translator, at \$2,400 each	do.				16,800 00		
Twelve clerks of class four	Mar. 3, 1875	R. S. 18	26 349	167 1	21,600 00		
Six clerks of class three	do.				9,600 00		
Eleven clerks of class one	do.				13,200 00		
Thirteen clerks, at \$900 each	do.				11,700 00		
One messenger	do.				840 00		
One assistant messenger	do.				720 00		
Two assistant messengers, at \$720 each	Submitted				1,440 00		
Seventeen laborers, at \$720 each	Mar. 3, 1875	R. S. 18	26 349	167,9 1	12,240 00		
Extra clerk hire and copying	do.				6,000 00		
Superintendent of the watch	do.				1,000 00		
Assistant superintendent of the watch	Submitted				900 00		
Nine watchmen, at \$720 each	Mar. 3, 1875	R. S. 18	26 349	167,9 1	6,480 00		
Chief engineer	do.				1,200 00		
One assistant engineer	do.				1,000 00		
One assistant engineer	Submitted				1,000 00		
Four firemen, at \$720 each	Mar. 3, 1875	R. S. 18	26 349	167,9 1	2,880 00		
Two firemen, at \$720 each	Submitted				1,440 00		
Twenty charwomen, at \$180 each	do.				3,600 00		
Conductor for elevator	Mar. 3, 1875	18	349	1	720 00		
NOTE.—Additional messengers are asked for that one may be assigned to each Assistant Secretary. An assistant superintendent of the watch is required, in order that an officer of the watch may be on duty each hour of the twenty-four. An additional assistant engineer is required to superintend the firemen and machinery at all hours. The chief engineer has also charge of and repairs the gas fixtures, &c., in the Department. Two additional firemen are required in order that three gangs may each work eight hours per day. Two men are necessarily required the whole time, night and day. Charwomen are required to scrub the halls, windows, and corridors of the building, &c.							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Proof-reading, Department of State—</i> Proof-reading and packing the laws and documents for the various legations and consulates, including boxes and transportation of the same.....	Appropriated.	18	349	1	.....	\$3,000 00	\$3,000 00
<i>Stationery, Furniture, &c., Department of State—</i> Stationery, furniture, fixtures, and repairs	Appropriated.	18	349	1	.....	7,500 00	5,000 00
<i>Books and Maps, Department of State—</i> Books and maps	Appropriated.	18	349	1	.....	5,000 00	2,500 00
<i>Lithographing, Department of State—</i> Services of lithographer, laborer, and for necessary materials for lithographic press	Appropriated.	18	349	1	.....	2,500 00	2,500 00
<i>Postage, Department of State—</i> For purchase of official postage stamps	Appropriated.	18	349	1	.....	20,000 00	25,000 00
<i>Contingent Expenses, Department of State—</i> Fuel	Appropriated	18	349	1	\$10,000 00		
Lights	do.				5,000 00		
Repairs	do.				6,000 00		
Care and subsistence of horses, and repairs of carriages and harness	do.				2,000 00		
Miscellaneous items not included in the foregoing	do.				6,250 00		
Rent of stable and wagon shed	do.				1,000 00		
Care of grounds, clocks and repairs of same	Submitted				3,500 00		
						33,750 00	22,570 00
<i>Publication of the Annual Statutes—</i> Expenses of editing, printing, binding, and distributing the laws enacted at the first session of the Forty-fourth Congress	Appropriated.	18	349	1	10,000 00		
Expenses of editing, printing, binding, and distributing the laws enacted at the second session of the Forty-fourth Congress	do.				10,000 00		
Expenses of editing, printing, binding, and distributing the Statutes at Large of the Forty-fourth Congress	do.				20,000 00		
						40,000 00	30,000 00
NOTE.—The estimate for "printing and binding, State Department," will be found under the title of "Miscellaneous," post.							
Total Department of State						247,110 00	217,550 00

TREASURY DEPARTMENT.

OFFICE OF THE SECRETARY.

Salaries, Office of Secretary of Treasury—

Secretary	Mar. 3, 1875	R. S. 18	37 396	233 2	8,000 00		
Two Assistant Secretaries, at \$4,500 each	Mar. 3, 1875	R. S. 18	37 396	234 2	9,000 00		
Chief clerk and <i>ex officio</i> superintendent of Treasury building	Mar. 3, 1875	R. S. 18	37 396	235 2	3,000 00		
Stenographer to the Secretary	Mar. 3, 1875	18	396	2	2,400 00		
Chief of division of warrants, estimates, and appropriations	do.				3,000 00		
Seven chiefs of divisions, at \$2,800 each	do.				19,600 00		
Eight assistant chiefs of divisions, at \$2,400 each	do.				19,200 00		
Two disbursing clerks, at \$2,800 each	do.				5,600 00		
Twenty-five clerks of class four	Mar. 3, 1875	R. S. 18	26 396	167 2	45,000 00		
Twenty-six clerks of class three	do.				41,600 00		
Twenty-one clerks of class two	do.				29,400 00		
Eighteen clerks of class one	do.				21,600 00		
Thirty-one clerks, at \$900 each	do.				27,900 00		
Eleven messengers, at \$340 each	do.				9,240 00		
Eleven laborers, at \$720 each	do.				7,920 00		
One clerk of class four in superintendent's office	do.				1,800 00		
One clerk of class one in superintendent's office	do.				1,200 00		
One captain of the watch	Mar. 3, 1875	R. S. 18	26 396	169 2	1,400 00		
One engineer	do.				1,600 00		
One assistant engineer	do.				1,000 00		
One machinist and gas-fitter	do.				1,200 00		
One storekeeper	do.				1,400 00		
Nine firemen, at \$720 each	do.				6,480 00		
Sixty watchmen, at \$720 each	do.				43,200 00		
Additional to two watchmen acting as lieutenants of watch, at \$280 each	do.				560 00		
Twenty-five laborers, at \$720 each	do.				18,000 00		
Ninety charwomen, at \$180 each	do.				16,200 00		
						\$346,500 00	\$346,500 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, Office of Secretary of the Treasury, (Loans and Currency)—</i>							
Two chiefs of divisions, at \$2,800 each.....	Mar. 3, 1875	18	398	2	\$5,600 00		
Two assistant chiefs of divisions, at \$2,400 each.....	do				4,800 00		
Fourteen clerks of class four.....	Mar. 3, 1875	R. S. 18	26	167	} 25,200 00		
Additional to three clerks of class four, namely, receiving clerk of bonds and two book-keepers, \$300 each.....	do	398		2			
Eight clerks of class three.....	Mar. 3, 1875	18	398	2	900 00		
Six clerks of class two.....	do	R. S. 18	26	167	} 12,800 00		
Four clerks of class one.....	do	398		2			
Sixty clerks, at \$900 each.....	do				8,400 00		
Eight messengers, at \$840 each.....	do				4,800 00		
Eleven laborers, at \$720 each.....	do				54,000 00		
Twelve laborers, at \$2 25 per day.....	do				6,720 00		
	do				7,920 00		
	do				8,451 00		
						\$139,591 00	\$139,591 00
OFFICE OF THE SUPERVISING ARCHITECT.							
<i>Salaries, Office of Supervising Architect—</i>							
Supervising Architect.....	Mar. 3, 1875	R. S. 18	38	235	} 4,500 00		
Chief clerk.....	Mar. 3, 1875	18	396	2			
Photographer.....	do				2,500 00		
Principal clerk.....	do				2,500 00		
Two clerks, at \$2,000 each.....	do				2,400 00		
Two clerks of class four.....	Mar. 3, 1875	R. S. 18	26	167	} 3,600 00		
Four clerks of class three.....	do	396		2			
Assistant photographer.....	do				6,400 00		
Two clerks of class one.....	do				1,600 00		
Two clerks, at \$900 each.....	do				2,400 00		
One messenger.....	do				1,800 00		
	do				840 00		
						32,540 00	32,540 00
OFFICE OF THE FIRST COMPTROLLER.							
<i>Salaries, Office of First Comptroller—</i>							
Comptroller.....	Mar. 3, 1875	R. S. 18	43	268	} 5,000 00		
Deputy Comptroller.....	Mar. 3, 1875	18	396	2			
Four chiefs of divisions, at \$2,400 each.....	do				2,800 00		
Six clerks of class four.....	Mar. 3, 1875	R. S. 18	26	167	} 10,800 00		
Twelve clerks of class three.....	do	396		2			
Ten clerks of class two.....	do				19,200 00		
Five clerks of class one.....	do				14,000 00		
Six clerks, at \$900 each.....	do				6,000 00		
One messenger.....	do				5,400 00		
Three laborers, at \$720 each.....	do				840 00		
	do				2,160 00		
						75,800 00	75,800 00
OFFICE OF THE SECOND COMPTROLLER.							
<i>Salaries, Office of Second Comptroller—</i>							
Comptroller.....	Mar. 3, 1875	R. S. 18	43	268	} 5,000 00		
Deputy Comptroller.....	Mar. 3, 1875	18	396	2			
Six chiefs of divisions, at \$2,400 each.....	do				2,800 00		
Six clerks of class four.....	Mar. 3, 1875	R. S. 18	26	167	} 10,800 00		
Seventeen clerks of class three.....	do	396		2			
Eighteen clerks of class two.....	do				27,200 00		
Eleven clerks of class one.....	do				25,200 00		
Nine clerks, at \$900 each.....	do				13,200 00		
One messenger.....	do				8,100 00		
Three laborers, at \$720 each.....	do				840 00		
	do				2,160 00		
						109,700 00	110,600 00
OFFICE OF THE COMMISSIONER OF CUSTOMS.							
<i>Salaries, Office of Commissioner of Customs—</i>							
Commissioner.....	Mar. 3, 1875	R. S. 18	52	316	} 4,500 00		
Deputy Commissioner.....	Mar. 3, 1875	18	397	2			
Two chiefs of divisions, at \$2,400 each.....	do				2,500 00		
Two clerks of class four.....	Mar. 3, 1875	R. S. 18	26	167	} 3,600 00		
Five clerks of class three.....	do	397		2			
Ten clerks of class two.....	do				8,000 00		
Nine clerks of class one.....	do				14,000 00		
One messenger.....	do				10,800 00		
One laborer.....	do				840 00		
	do				720 00		
						49,760 00	49,760 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.		
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OFFICE OF THE FIRST AUDITOR.									
Salaries, Office of First Auditor—									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	\$4,000 00	\$58,780 00	\$58,780 00		
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Four chiefs of divisions, at \$2,100 each	do.				8,400 00				
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	3,600 00				
Seven clerks of class three	do.				11,200 00				
Eight clerks of class two	do.				11,200 00				
Thirteen clerks of class one	do.				15,600 00				
One messenger	do.				840 00				
Two laborers, at \$720 each	do.				1,440 00				
Salaries, Office of First Auditor, (Loans)—									
Four clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	7,200 00	18,600 00	18,600 00		
Three clerks of class three	do.				4,800 00				
Three clerks of class two	do.				4,200 00				
Two clerks of class one	do.				2,400 00				
OFFICE OF THE SECOND AUDITOR.									
Salaries, Office of Second Auditor—									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	4,000 00	245,280 00	245,280 00		
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Five chiefs of divisions, at \$2,100 each	do.				10,500 00				
Six clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	10,800 00				
Thirty-five clerks of class three	do.				56,000 00				
Seventy clerks of class two	do.				98,000 00				
Forty-five clerks of class one	do.				54,000 00				
One messenger	do.				840 00				
Twelve laborers, at \$720 each	do.				8,640 00				
OFFICE OF THE THIRD AUDITOR.									
Salaries, Office of Third Auditor—									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	4,000 00			237,000 00	237,000 00
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Five chiefs of divisions, at \$2,100 each	do.				10,500 00				
Six clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	10,800 00				
Twenty-five clerks of class three	do.				40,000 00				
Seventy-five clerks of class two	do.				105,000 00				
Forty clerks of class one	do.				48,000 00				
Ten clerks, at \$900 each	do.				9,000 00				
Two messengers, at \$840 each	do.				1,680 00				
Seven laborers, at \$720 each	do.				5,040 00				
One charwoman	Mar. 3, 1875	R. S. 18	26 397	169 2	480 00				
OFFICE OF THE FOURTH AUDITOR.									
Salaries, Office of Fourth Auditor—									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	4,000 00	81,000 00	81,000 00		
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Three chiefs of divisions, at \$2,100 each	do.				6,300 00				
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	3,600 00				
Eighteen clerks of class three	do.				28,800 00				
Eleven clerks of class two	do.				15,400 00				
Ten clerks of class one	do.				12,000 00				
Six clerks, at \$900 each	do.				5,400 00				
One messenger	do.				840 00				
Three laborers, at \$720 each	do.				2,160 00				
OFFICE OF THE FIFTH AUDITOR.									
Salaries, Office of Fifth Auditor—									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	4,000 00				
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Two chiefs of divisions, at \$2,100 each	do.				4,200 00				
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	3,600 00				
Seven clerks of class three	do.				11,200 00				
Six clerks of class two	do.				8,400 00				

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.		
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<i>Salaries, Office of Fifth Auditor—Continued.</i>									
Eight clerks of class one	Mar. 3, 1875	R. S. 18	26 397	167 2	\$9,600 00	\$50,280 00	\$50,280 00		
Five clerks, at \$900 each	do				4,500 00				
One messenger	do				840 00				
Two laborers, at \$720 each	do				1,440 00				
OFFICE OF THE SIXTH AUDITOR.									
<i>Salaries, Office of Sixth Auditor—</i>									
Auditor	Mar. 3, 1875	R. S. 18	45 397	276 2	4,000 00	313,320 00	313,320 00		
Deputy Auditor	Mar. 3, 1875	18	397	2	2,500 00				
Eight chiefs of divisions, at \$2,100 each	do				16,800 00				
Eight clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	14,400 00				
Additional to one clerk of class four as disbursing clerk ..	Mar. 3, 1875	18	397	2	200 00				
Fifty-four clerks of class three	Mar. 3, 1875	R. S. 18	26 397	167 2	86,400 00				
Sixty-nine clerks of class two	do				96,600 00				
Thirty-seven clerks of class one	do				44,400 00				
One messenger	do				840 00				
Nineteen laborers, at \$720 each	do				13,680 00				
Fifteen female assorters of money orders, at \$900 each ..	do				13,500 00				
Twenty assorters of money orders, at \$1,000 each	Mar. 3, 1875	R. S. 18	26 397	169 2	20,000 00				
OFFICE OF THE TREASURER.									
<i>Salaries, Office of Treasurer of United States—</i>									
Treasurer	Mar. 3, 1875	R. S. 18	49 397	301 2	6,500 00	180,460 00	180,460 00		
Assistant Treasurer	Mar. 3, 1875	R. S. 18	49 397	303 2	3,800 00				
Cashier	Mar. 3, 1875	R. S. 18	38 397	235 2	3,800 00				
Assistant cashier	do				3,500 00				
Chief clerk	do				2,700 00				
Five chiefs of divisions, at \$2,700 each	do				13,500 00				
One principal book-keeper	do				2,600 00				
One principal book-keeper	do				2,500 00				
One teller	do				2,700 00				
One teller	do				2,600 00				
Two assistant tellers, at \$2,350 each	do				4,700 00				
Thirteen clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	23,400 00				
Thirteen clerks of class three	do				20,800 00				
Nine clerks of class two	do				12,600 00				
Eight clerks of class one	do				9,600 00				
Sixty clerks, at \$900 each	do				54,000 00				
Seven messengers, at \$840 each	do				5,880 00				
Five laborers, at \$720 each	do				3,600 00				
Seven laborers, at \$240 each	do				1,680 00				
<i>Salaries, Temporary Clerks, Office of Treasurer of United States—</i>						180,460 00	180,460 00		
Temporary clerks	Appropriated.	18	375	1		20,000 00	20,000 00		
<i>Salaries, Office of Treasurer of United States, (Loans)—</i>									
Seventeen clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	30,600 00	214,780 00	214,780 00		
Six clerks of class three	do				9,600 00				
Five clerks of class two	do				7,000 00				
Nine clerks of class one	do				10,800 00				
One hundred and forty-five counters and copyists, at \$900 each ..	do				130,500 00				
Nine messengers	do				7,560 00				
Twenty-six laborers	do				18,720 00				
<i>Salaries, Office of Treasurer of United States, (National Currency, to be reimbursed by National Banks)—</i>									
Superintendent	Mar. 3, 1875	18	399	3	3,500 00	166,656 00	166,656 00		
Two principal tellers and one principal book-keeper, at \$2,600 each	do				7,800 00				
One assistant principal book-keeper	do				2,500 00				
Two assistant tellers, at \$2,200 each	do				4,400 00				
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 399	167 3	3,600 00				
Two clerks of class three	do				3,200 00				
Four clerks of class two	do				5,600 00				
Forty-four clerks of class one	do				52,800 00				
Twenty-one clerks, at \$1,000 each	do				21,000 00				
Sixty clerks, at \$900 each	do				54,000 00				
Four messengers, at \$840 each	do				3,360 00				
Five assistant messengers, at \$720 each	do				3,600 00				
Three persons, at \$432 each	do				1,296 00				
								166,656 00	166,656 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.		
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OFFICE OF THE REGISTER.									
Salaries, Office of Register—									
Register	Mar. 3, 1875	R. S. 18	51 397	312 2	\$4,500 00	\$78,220 00	\$78,220 00		
Assistant Register	Mar. 3, 1875	R. S. 18	51 397	314 2	2,500 00				
Deputy Register	Mar. 3, 1875	18	397	2	2,500 00				
Seven clerks of class four	Mar. 3, 1875	R. S. 18	26 397	167 2	12,600 00				
Ten clerks of class three	do				16,000 00				
Fourteen clerks of class two	do				19,600 00				
Eight clerks of class one	do				9,600 00				
Eight copyists, at \$900 each	do				7,200 00				
One messenger	do				840 00				
Four laborers, at \$720 each	do				2,880 00				
Salaries, Office of Register, (Loans)—									
Five chiefs of divisions, at \$2,500 each	Mar. 3, 1875	18	398	2	12,500 00	167,940 00	167,940 00		
One disbursing clerk	do				2,000 00				
Twelve clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	21,600 00				
Twelve clerks of class three	do				19,200 00				
Four clerks of class two	do				5,600 00				
Five clerks of class one	do				6,000 00				
One hundred counters and copyists, at \$900 each	do				90,000 00				
Eight messengers, at \$840 each	do				6,720 00				
Six laborers, at \$720 each	do				4,320 00				
OFFICE OF COMPTROLLER OF THE CURRENCY.									
Salaries, Office of Comptroller of the Currency—									
Comptroller	Mar. 3, 1875	R. S. 18	53 398	325 2	5,000 00	126,780 00	126,780 00		
Deputy Comptroller	Mar. 3, 1875	R. S. 18	53 398	327 2	3,000 00				
Four chiefs of divisions, at \$2,400 each	Mar. 3, 1875	18	398	2	9,600 00				
One stenographer	do				2,000 00				
Eight clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	14,400 00				
Fourteen clerks of class three	do				22,400 00				
Twelve clerks of class two	do				16,800 00				
Eleven clerks of class one	do				13,200 00				
Thirty-three clerks, at \$900 each	do				29,700 00				
Four messengers, at \$840 each	do				3,360 00				
Four laborers, at \$720 each	do				2,880 00				
Two night watchmen, at \$720 each	do				1,440 00				
For expenses of special examination of national banks and bank plates	Appropriated.	18	351	1	3,000 00				
Salaries, Office of Comptroller of the Currency, (National Currency, to be reimbursed by National Banks)—									
One superintendent	Mar. 3, 1875	18	399	3	2,400 00	34,840 00	34,840 00		
One teller	do				2,400 00				
One principal book-keeper	do				2,400 00				
One assistant book-keeper	do				2,200 00				
One clerk of class four	Mar. 3, 1875	R. S. 18	26 399	167 3	1,800 00				
Four clerks of class one	do				4,800 00				
Twenty clerks, at \$900 each	do				18,000 00				
One messenger	do				840 00				
OFFICE OF COMMISSIONER OF INTERNAL REVENUE.									
Salaries, Office of Commissioner of Internal Revenue—									
Commissioner	Mar. 3, 1875	R. S. 18	52 398	319 2	6,000 00			322,800 00	322,800 00
One Deputy Commissioner	Mar. 3, 1875	R. S. 18	38 398	235 2	3,500 00				
One Deputy Commissioner	do				3,000 00				
Seven heads of divisions, at \$2,500 each	do				17,500 00				
One stenographer	Mar. 3, 1875	18	398	2	2,000 00				
Thirty clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	54,000 00				
Forty-two clerks of class three	do				67,200 00				
Fifty clerks of class two	do				70,000 00				
Eighteen clerks of class one	do				21,600 00				
Seventy clerks, at \$900 each	do				63,000 00				
Five messengers, at \$840 each	do				4,200 00				
Fifteen laborers, at \$720 each	do				10,800 00				

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.		
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OFFICE OF THE LIGHT-HOUSE BOARD.									
Salaries, Office of Light-house Board—									
Chief clerk	Mar. 3, 1875	R. S. 18	38 398	235 2	\$2,500 00	\$14,360 00	\$14,360 00		
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 398	167 2	3,600 00				
Two clerks of class three	do				3,200 00				
One clerk of class two	do				1,400 00				
One clerk of class one	do				1,200 00				
One clerk	do				900 00				
One messenger	do				840 00				
One laborer	do				720 00				
BUREAU OF STATISTICS.									
Salaries, Bureau of Statistics—									
Officer in charge of bureau	Mar. 3, 1875	R. S. 18	54 352	334 1	2,500 00	77,440 00	79,440 00		
Chief clerk	Mar. 3, 1875	R. S. 18	38 352	235 1	2,000 00				
Eleven clerks of class four	Mar. 3, 1875	R. S. 18	26 352	167 1	19,800 00				
Seven clerks of class three	do				11,200 00				
Nine clerks of class two	do				12,600 00				
Four clerks of class one	do				4,800 00				
Five copyists, at \$900 each	do				4,500 00				
One messenger	do				840 00				
One laborer	do				720 00				
One charwoman	do				480 00				
Collecting statistics relating to commerce: For collecting and collating statistics relating to foreign and domestic commerce, to railroads, and to the cost of transportation on railroads and navigable waters	Appropriated.	18	352	1	18,000 00				
BUREAU OF ENGRAVING AND PRINTING.									
Salaries, Bureau of Engraving and Printing—									
Chief of bureau	Mar. 3, 1875	R. S. 18	710 370	3575-8 1	5,000 00	33,013 50	30,509 50		
Two assistants, at \$8 per day	do				5,008 00				
Accountant, at \$7 per day	do				2,191 00				
Eight clerks, at \$4 per day	do				10,016 00				
Two clerks, at \$4 per day	Submitted				2,504 00				
Five copyists, at \$2 90 per day	Mar. 3, 1875	R. S. 18	710 370	3575-8 1	4,538 50				
Six messengers, at \$2 per day	do				3,756 00				
MISCELLANEOUS.									
Salaries, Temporary Clerks, Treasury Department—									
Temporary clerks for the Treasury Department	Appropriated.	18	375	1		40,000 00	40,000 00		
Stationery for Treasury Department—									
Stationery for the Treasury Department and its several bureaus	Appropriated.	18	352	1		50,000 00	50,000 00		
Postage, Treasury Department—									
Purchase of official postage stamps	Appropriated.	18	352	1		100,000 00	100,000 00		
Contingent Expenses, Treasury Department—									
Arranging and binding cancelled marine-papers, requisitions, and other important records; sealing ships' registers; for foreign postage, newspapers, books, hand-stamps, and repairs of the same	Appropriated.	18	352	1	12,000 00				
Investigation of accounts and records, including the necessary travelling expenses, and for other travelling expenses	do				4,000 00				
Freight, expressage, telegrams, and car tickets	do				7,000 00				
Rent of buildings	do				13,200 00				
Care and subsistence of horses for office and mail-wagons, including feeding and shoeing; and for wagons, harness, and repairs of same	do				5,800 00				
Ice, buckets, file-holders, book-rests, labor; for care of grounds, clocks, and repairs of the same	do				9,000 00				
Coal, wood, grates, grate-baskets and fixtures, stoves and fixtures, blowers, coal-hods, hearths, shovels, tongs, pokers, matches, and match-safes	do				11,000 00				

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Contingent Expenses, Treasury Department—Continued.</i>							
Gas, drop-lights and tubing, gas-burners, brackets and globes, candles, lanterns, and wicks.....	Appropriated.	18	352	1	\$19,000 00		
Carpets, oil-cloth, matting, repairs, cleaning and laying of the same	do				14,000 00		
Desks, tables and chairs, and shelving for file-rooms, and cases; repairs of furniture; boxes, rugs, chair-covers and caning, cushions, cloth for covering desks, locks, screws, hand-saws, turpentine, and varnish	do				24,500 00		
Washing towels, brooms, brushes, crash, cotton cloth, cane, chamois skins, dusters, flour, keys, lye, matches, nails, oil, powders, sponge, soap, tacks, wall-paper, and the other miscellaneous expenses required for the current and ordinary business of the Department; and for repairs of machinery, baskets, spittoons, files, water-coolers, tumblers, ice-picks, bowls and pitchers, traps, thermometers, ventilators, towels, awnings and fixtures, alcohol, window-shades and fixtures, wire-screens, hemming towels, axes, bellows, chisels, canvas, candlesticks, door and window fasteners, bells and bell-pulls, hammers, mallets, leather, gum, and other belting, stencil-plates, tools, whetstones, wire, and zinc, and other absolutely necessary expenses	do				25,000 00		
NOTE.—The estimate for "printing and binding, Treasury Department," will be found under the title of "Miscellaneous," <i>post</i> .						\$144,500 00	\$144,500 00
Total Treasury Department						3,529,940 50	3,530,336 50
INDEPENDENT TREASURY.							
OFFICE OF ASSISTANT TREASURER AT BALTIMORE.							
<i>Salaries, Office of Assistant Treasurer at Baltimore—</i>							
Assistant treasurer.....		R. S.	714	3595, 3596	} 5,000 00		
Mar. 3, 1875.....		18	354	1			
Cashier.....		R. S.	716	3606	} 2,500 00		
Mar. 3, 1875.....		18	354	1			
Three clerks, at \$1,800 each.....	do				5,400 00		
Three clerks, at \$1,400 each.....	do				4,200 00		
Two clerks, at \$1,200 each.....	do				2,400 00		
Messenger	do				840 00		
Five vault watchmen, at \$720 each	do				3,600 00		
						\$23,940 00	\$23,940 00
OFFICE OF ASSISTANT TREASURER AT BOSTON.							
<i>Salaries, Office of Assistant Treasurer at Boston—</i>							
Assistant treasurer.....		R. S.	714	3595, 3596	} 5,000 00		
Mar. 3, 1875.....		18	353	1			
Chief clerk		R. S.	715	3601	} 2,700 00		
Mar. 3, 1875.....		18	353	1			
Paying teller	do				2,500 00		
Chief interest clerk.....	do				2,500 00		
Receiving teller.....	do				1,800 00		
First book-keeper.....	do				1,700 00		
Second book-keeper, "depositors' accounts".....	do				1,500 00		
New fractional-currency clerk	do				1,800 00		
Specie clerk	do				1,500 00		
Assistant specie clerk	do				1,400 00		
Two coupon clerks, at \$1,400 each	do				2,800 00		
Fractional-currency redemption clerk.....	do				1,200 00		
Receipt clerk	do				1,200 00		
Assistant book-keeper.....	do				800 00		
Money clerk	do				1,000 00		
Assistant currency redemption clerk.....	do				1,100 00		
Assistant currency redemption clerk.....	do				1,000 00		
Messenger and chief watchman.....	do				1,060 00		
Two watchmen, at \$850 each	do				1,700 00		
						34,260 00	34,260 00
OFFICE OF ASSISTANT TREASURER AT CHARLESTON.							
<i>Salaries, Office of Assistant Treasurer at Charleston—</i>							
Assistant treasurer.....		R. S.	714	3595,'6	} 4,000 00		
Mar. 3, 1875.....		18	354	1			
One clerk.....		R. S.	716	3608	} 1,800 00		
Mar. 3, 1875.....		18	354	1			
One clerk.....	do				1,600 00		
One assistant messenger	do				720 00		
Two watchmen, at \$720 each	do				1,440 00		
						9,560 00	9,560 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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OFFICE OF ASSISTANT TREASURER AT CHICAGO.							
Salaries, Office of Assistant Treasurer at Chicago—							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 354	3595, 3596 1	\$5,000 00		
Cashier.....	Mar. 3, 1875	R. S. 18	717 354	3611 1	2,500 00		
Paying teller.....	do				1,800 00		
Book-keeper.....	do				1,500 00		
Receiving teller.....	do				1,500 00		
One clerk.....	do				1,200 00		
One messenger.....	do				840 00		
One watchman.....	do				720 00		
						\$15,060 00	\$15,060 00
OFFICE OF ASSISTANT TREASURER AT CINCINNATI.							
Salaries, Office of Assistant Treasurer at Cincinnati—							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 355	3595, 3596 1	5,000 00		
Cashier.....	Mar. 3, 1875	R. S. 18	717 355	3612 1	2,000 00		
Book-keeper.....	do				1,800 00		
Assistant cashier.....	do				1,500 00		
Check clerk.....	do				1,200 00		
Interest clerk.....	do				1,200 00		
Fractional-currency clerk.....	do				1,000 00		
Messenger.....	do				600 00		
Night watchman.....	do				720 00		
Two watchmen, at \$120 each.....	do				240 00		
						15,260 00	15,260 00
OFFICE OF ASSISTANT TREASURER AT NEW ORLEANS.							
Salaries, Office of Assistant Treasurer at New Orleans—							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 354	3595, 3609 1	4,500 00		
Cashier.....	Mar. 3, 1875	R. S. 18	716 354	3609 1	2,500 00		
Receiving teller.....	do				2,000 00		
Book-keeper.....	do				1,500 00		
Assistant book-keeper.....	do				1,500 00		
Porter.....	do				900 00		
Two watchmen, at \$720 each.....	do				1,440 00		
Two night watchmen, at \$720 each.....	do				1,440 00		
						15,780 00	15,780 00
OFFICE OF ASSISTANT TREASURER AT NEW YORK.							
Salaries, Office of Assistant Treasurer at New York—							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 353	3595, 3603 1	8,000 00		
Cashier and chief clerk.....	Mar. 3, 1875	R. S. 18	715 353	3603 1	4,200 00		
Deputy assistant treasurer.....	do				3,600 00		
Chief of coin division.....	do				4,000 00		
Chief of note-paying division.....	do				3,000 00		
Chief of note-receiving division.....	do				3,000 00		
Chief of check division.....	do				3,000 00		
Chief of registered-interest division.....	do				2,800 00		
Chief of coupon-interest division.....	do				2,500 00		
Chief of fractional-currency division.....	do				2,500 00		
Chief of bond division.....	do				2,400 00		
Chief of cancelled-check and record division.....	do				2,000 00		
Two clerks, at \$2,400 each.....	do				4,800 00		
Six clerks, at \$2,200 each.....	do				13,200 00		
Ten clerks, at \$2,000 each.....	do				20,000 00		
Nine clerks, at \$1,800 each.....	do				16,200 00		
Four clerks, at \$1,700 each.....	do				6,800 00		
Five clerks, at \$1,600 each.....	do				8,000 00		
Two clerks, at \$1,500 each.....	do				3,000 00		
Eleven clerks, at \$1,400 each.....	do				15,400 00		
Three clerks, at \$1,200 each.....	do				3,600 00		
Five messengers, at \$1,300 each.....	do				6,500 00		
One messenger.....	do				1,200 00		
Keeper of building.....	do				1,800 00		
Chief detective.....	do				1,800 00		
Assistant detective.....	do				1,400 00		
Three hallmen, at \$1,000 each.....	do				3,000 00		
Six watchmen, at \$730 each.....	do				4,380 00		
One engineer.....	do				1,000 00		
One porter.....	do				900 00		
						153,980 00	150,980 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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OFFICE OF ASSISTANT TREASURER AT PHILADELPHIA.							
<i>Salaries, Office of Assistant Treasurer at Philadelphia—</i>							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 354	3595, 3596 1	\$5,000 00		
Cashier and chief clerk.....	Mar. 3, 1875	R. S. 18	716 354	3605 1	2,700 00		
Book-keeper.....	do				2,500 00		
Chief interest clerk.....	do				1,900 00		
Assistant book-keeper.....	do				1,800 00		
Coin teller.....	do				1,700 00		
Chief registered-interest clerk.....	do				1,900 00		
Assistant coupon clerk.....	do				1,600 00		
Fractional-currency clerk.....	do				1,600 00		
One assistant registered-loan clerk.....	do				1,500 00		
One assistant registered-loan clerk.....	do				1,400 00		
Assistant coin teller.....	do				1,400 00		
Assistant fractional-currency clerk.....	do				1,400 00		
Receiving teller.....	do				1,300 00		
Assistant receiving teller.....	do				1,200 00		
Superintendent of building.....	do				1,100 00		
Seven female counters, at \$900 each.....	do				6,300 00		
Four watchmen, at \$930 each.....	do				3,720 00		
						\$40,020 00	\$40,020 00
OFFICE OF ASSISTANT TREASURER AT ST. LOUIS.							
<i>Salaries, Office of Assistant Treasurer at St. Louis—</i>							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 354	3595, 3607 1	5,000 00		
Chief clerk and teller.....	Mar. 3, 1875	R. S. 18	716 354	3607 1	2,500 00		
Assistant teller.....	do				1,800 00		
Book-keeper.....	do				1,500 00		
Assistant book-keeper.....	do				1,200 00		
Messenger.....	do				1,000 00		
Four watchmen, at \$700 each.....	do				2,800 00		
						15,800 00	15,800 00
OFFICE OF ASSISTANT TREASURER AT SAN FRANCISCO.							
<i>Salaries, Office of Assistant Treasurer at San Francisco—</i>							
Assistant treasurer.....	Mar. 3, 1875	R. S. 18	714 354	3595, 3610 1	6,000 00		
Cashier.....	Mar. 3, 1875	R. S. 18	716 354	3610 1	3,000 00		
Book-keeper.....	do				2,500 00		
Assistant cashier.....	do				2,000 00		
Assistant book-keeper.....	do				2,000 00		
Stamp clerk.....	do				2,400 00		
Clerk.....	do				1,800 00		
Three night watchmen, at \$1,500 each.....	do				4,500 00		
Day watchman.....	do				960 00		
						25,160 00	25,160 00
OFFICE OF DEPOSITARY AT PITTSBURGH.							
<i>Salaries, Office of Depositary at Pittsburgh—</i>							
Cashier.....	Mar. 3, 1875	R. S. 18	620 355	3211 1	1,800 00		
Book-keeper.....	Mar. 3, 1875	R. S. 18	355	1	1,400 00		
Watchman.....	do				720 00		
						3,920 00	3,920 00
OFFICE OF DEPOSITARY AT SANTA FÉ.							
<i>Salaries, Office of Depositary at Santa Fé—</i>							
Depositary, in addition to his pay as receiver.....	Mar. 3, 1875	R. S. 18	620 355	3211 1	2,000 00		
One clerk.....	Mar. 3, 1875	R. S. 18	355	1	1,200 00		
Two watchmen, at \$720 each.....	do				1,440 00		
						4,640 00	4,640 00
OFFICE OF DEPOSITARY AT TUCSON.							
<i>Salaries, Office of Depositary at Tucson—</i>							
Depositary, in addition to his pay as postmaster.....	Mar. 3, 1875	R. S. 18	620 355	3211 1	1,500 00		
						1,500 00	1,500 00
MISCELLANEOUS.							
<i>Salaries of Special Agents, Independent Treasury—</i>							
Compensation to special agents to examine the books, accounts, and money on hand at the several sub-treasuries and depositories, including national banks acting as depositories.....	Mar. 3, 1875	R. S. 18	722 355	3649 1	6,000 00		4,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries of Designated Depositories—</i>							
Compensation to designated depositaries at Buffalo, New York, and Pittsburgh, Pennsylvania, for receiving, safely keeping, and paying out public money, at the rate of one-half of one per centum on the first one hundred thousand dollars, one-fourth of one per centum on the second one hundred thousand dollars, and one-eighth of one per centum on all sums over two hundred thousand dollars; any sum which may have been allowed to such depositaries for rent or any other contingent expenses in respect to the custody of such public money being deducted from such compensation before any payment shall be made therefor: <i>Provided</i> , That no compensation shall be allowed for the above services when the emoluments of the office of which said designated depositary is in commission amount to the maximum compensation fixed by law; nor shall the amount allowed to any one of said designated depositaries for such services, when added to the emoluments of the office of which he is in commission, be more than sufficient to make the maximum compensation fixed by law: <i>And provided further</i> , That the whole allowance to any designated depositary for such service shall not exceed one thousand five hundred dollars per annum.	Mar. 3, 1875	R. S. 18	723 355	3655, 3656 1	\$3,000 00	\$3,000 00	
<i>Checks and Certificates of Deposit, Independent Treasury—</i>							
Checks and check-books for disbursing officers and others, and certificates of deposit for offices of the Treasurer and assistant treasurers and designated depositaries	Mar. 3, 1875	R. S. 18	723 355	3653 1	13,000 00	13,000 00	
<i>Contingent Expenses, Independent Treasury—</i>							
Contingent expenses under the act of the sixth of August, eighteen hundred and forty-six, for the collection, safe-keeping, transfer, and disbursement of the public money	Mar. 3, 1875	R. S. 18	723 355	3653 1	60,000 00	70,000 00	
Total Independent Treasury					440,880 00	445,880 00	
MINTS AND ASSAY OFFICES.							
OFFICE OF DIRECTOR OF THE MINT.							
<i>Salaries, Office of Director of the Mint—</i>							
Director	Mar. 3, 1875	R. S. 18	57 355	343, 345 1	\$4,500 00		
Computer of bullion and examiner, at \$2,200 each	do				4,400 00		
One clerk of class four	Mar. 3, 1875	R. S. 18	26 356	167 345 1	1,800 00		
One clerk of class two	do				1,400 00		
One clerk of class one	do				1,200 00		
One translator	do				1,200 00		
One copyist	do				900 00		
One messenger	do				840 00		
One laborer	do				720 00		
					\$16,960 00	\$16,960 00	
<i>Contingent Expenses, United States Mints and Assay Offices—</i>							
Specimens of ores and coins for the mints	Appropriated	18	356	1	300 00		
Books, balances, weights, and other incidentals, including travelling expenses of director and examiner	do				1,500 00		
					1,800 00	1,700 00	
<i>Recoinage of Gold and Silver Coins—</i>							
Recoinages of gold and silver coins in the Treasury, to be expended under the direction of the Secretary	Mar. 3, 1875	R. S. 18	700 356	3512 3566 1	2,000 00	2,000 00	
<i>Collecting Mining Statistics—</i>							
Continuing the collection of statistics of mines and mining, to be expended under the direction of the Secretary of the Treasury	Appropriated	18	374	1	7,000 00	15,000 00	
MINT OF THE UNITED STATES AT PHILADELPHIA.							
<i>Salaries, Mint of the United States at Philadelphia—</i>							
Superintendent	Mar. 3, 1875	R. S. 18	698 356	3496, 3498 1	4,500 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, Mint of the United States at Philadelphia—Continued.</i>							
Assayer, melter and refiner, coiner, and engraver, at \$3,000 each	Mar. 3, 1875	R. S. 18	698 356	3496, 3498 1	\$12,000 00		
Assistant assayer, assistant melter and refiner, and assistant coiner, at \$2,100 each	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1	6,300 00		
Cashier	do.				2,500 00		
Chief clerk	do.				2,400 00		
Book-keeper, deposit clerk, and weigh clerk, at \$2,000 each	do.				6,000 00		
Two clerks, at \$1,800 each	do.				3,600 00		
						\$37,300 00	\$37,300 00
<i>Wages of Workmen, Mint of the United States at Philadelphia—</i>							
Wages of workmen and adjusters	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1		250,000 00	250,000 00
<i>Contingent Expenses, Mint of the United States at Philadelphia—</i>							
Incidental and contingent expenses, including new machinery and repairs	Appropriated.	18	356	1		85,000 00	75,000 00
<i>Freight on Bullion, Mint of the United States at Philadelphia—</i>							
Freight on bullion and coin	Appropriated.	18	356	1		5,000 00	10,000 00
MINT OF THE UNITED STATES AT SAN FRANCISCO.							
<i>Salaries, Mint of the United States at San Francisco—</i>							
Superintendent	Mar. 3, 1875	R. S. 18	698 356	3496, 3498 1	4,500 00		
Assayer, melter and refiner, and coiner, at \$3,000 each	do.				9,000 00		
Chief clerk and cashier, at \$2,500 each	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1	5,000 00		
Four clerks, at \$1,800 each	do.				7,200 00		
						25,700 00	25,700 00
<i>Wages of Workmen, Mint of the United States at San Francisco—</i>							
Wages of workmen and adjusters	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1		313,200 00	275,000 00
<i>Contingent Expenses, Mint of the United States at San Francisco—</i>							
Materials, acids, repairs, and other incidental expenses	Appropriated.	18	356	1		332,000 00	86,000 00
MINT OF THE UNITED STATES AT CARSON.							
<i>Salaries, Mint of the United States at Carson—</i>							
Superintendent	Mar. 3, 1875	R. S. 18	698 356	3496, 3498 1	3,000 00		
Assayer, melter and refiner, and coiner, at \$2,500 each	do.				7,500 00		
Chief clerk	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1	2,500 00		
Cashier and book-keeper, at \$2,000 each	do.				4,000 00		
Weigh clerk, voucher clerk, and computing clerk, at \$2,000 each	do.				6,000 00		
Assayer's clerk	do.				1,600 00		
						24,600 00	24,600 00
<i>Wages of Workmen, Mint of the United States at Carson—</i>							
Wages of workmen and adjusters	Mar. 3, 1875	R. S. 18	698 356	3499, 3504 1		115,000 00	85,000 00
<i>Contingent Expenses, Mint of the United States at Carson—</i>							
Materials, acids, repairs, and other incidental expenses	Appropriated.	18	356	1		125,000 00	100,000 00
MINT OF THE UNITED STATES AT DENVER.							
<i>Salaries, Mint of the United States at Denver—</i>							
Assayer in charge	Mar. 3, 1875	R. S. 18	707 356	3559, 3560 1	2,500 00		
Melter	do.				2,500 00		
Three clerks, at \$1,800 each	do.				5,400 00		
						10,400 00	10,400 00
<i>Wages of Workmen, Mint of the United States at Denver—</i>							
Wages of workmen	Mar. 3, 1875	R. S. 18	707 356	3560 1		15,335 00	15,335 00
<i>Contingent Expenses, Mint of the United States at Denver—</i>							
Fuel, light, acids, and other incidental expenses	Appropriated.	18	356	1		5,000 00	5,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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MINT OF THE UNITED STATES AT NEW ORLEANS.							
<i>Salaries, Mint of the United States at New Orleans—</i>		R. S.	697	3495			
Superintendent.....	June 20, 1874	18	97	1	\$3,500 00		
Assayer	Mar. 3, 1875	18	356	1	2,500 00	\$6,000 00	\$6,000 00
Wages of Workmen, Mint of the United States at New Orleans—							
Wages of workmen and adjusters.....		R. S.	698	3499, 3504			
	June 20, 1874	18	97	1		3,000 00	3,000 00
	Mar. 3, 1875	18	357	1			
<i>Contingent Expenses, Mint of the United States at New Orleans—</i>							
Fuel, light, acids, and other incidental expenses.....	Appropriated.	18	357	1		3,000 00	3,000 00
UNITED STATES ASSAY OFFICE AT NEW YORK.							
<i>Salaries, United States Assay Office at New York—</i>		R. S.	706	3554, 3556			
Superintendent.....	Mar. 3, 1875	18	357	1	4,500 00		
Assayer and melter and refiner, at \$3,000 each	do				6,000 00		
Chief clerk and weigh clerk, at \$2,800 each		R. S.	698	3499, 3504			
	Mar. 3, 1875	R. S. 18	706 357	3557 1	5,600 00		
Paying clerk.....	do				2,200 00		
Bar clerk.....	do				2,000 00		
Two calculating clerks, at \$2,000 each.....	do				4,000 00		
One assistant weigh clerk.....	do				1,800 00		
Warrant clerk.....	do				2,500 00		
Assayer's first assistant.....	do				2,500 00		
Assayer's second assistant.....	do				2,350 00		
Assayer's third assistant.....	do				2,200 00	35,650 00	35,650 00
<i>Wages of Workmen, United States Assay Office at New York—</i>		R. S.	698	3499, 3504			
Wages of workmen.....	Mar. 3, 1875	R. S. 18	706 357	3557 1		80,000 00	80,000 00
<i>Contingent Expenses, United States Assay Office at New York—</i>							
Acid, copper, coal, lead, light, and miscellaneous items and repairs.....	Appropriated.	18	357	1		50,000 00	50,000 00
UNITED STATES ASSAY OFFICE AT BOISE CITY.							
<i>Salaries, United States Assay Office at Boise City—</i>		R. S.	707	3559			
Assayer in charge.....	Mar. 3, 1875	18	357	1	2,500 00		
Melter	do				2,500 00	5,000 00	5,000 00
<i>Wages of Workmen, United States Assay Office at Boise City—</i>		R. S.	707	3560			
Wages of workmen.....	Mar. 3, 1875	18	357	1		1,500 00	1,500 00
<i>Contingent Expenses, United States Assay Office at Boise City—</i>							
Fuel, crucibles, chemicals, repairs, and other incidental expenses	Appropriated.	18	357	1		1,000 00	1,000 00
UNITED STATES ASSAY OFFICE AT HELENA, MONTANA.							
<i>Salaries, United States Assay Office at Helena, Montana—</i>		R. S.	707	3558, 3559, 3560			
Assayer in charge.....	May 12, 1874	18	45	1	3,000 00		
Melter	do				2,500 00		
Clerk	do				1,000 00	6,500 00	
<i>Wages of Workmen, United States Assay Office at Helena, Montana—</i>							
Wages of workmen.....	do					10,000 00	
<i>Contingent Expenses, United States Assay Office at Helena, Montana—</i>							
Fuel, crucibles, chemicals, light, and other incidental expenses	do					5,000 00	
<i>Machinery and Apparatus, United States Assay Office at Helena, Montana—</i>							
Machinery and apparatus and fitting up of the same.....	do					15,000 00	
NOTE.—For explanation of the foregoing estimates for mints and assay offices, see Appendix, marked "A."							
Total Mints and Assay Offices						1,592,945 00	1,220,145 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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TERRITORIAL GOVERNMENTS.							
ARIZONA.							
Salaries, Governor, &c., Territory of Arizona—							
Governor .....	.....	R. S.	327	1841, 1845, 1877	\$3,500 00		
Chief justice and two associate judges, at \$3,000 each...	.....	R. S.	332	1877, 1879	9,000 00		
Secretary .....	.....	R. S.	327	1843, 1845, 1877	2,500 00		
Interpreter and translator in the executive office.....	Mar. 3, 1875	18	357	1	500 00	\$15,500 00	\$15,500 00
Legislative Expenses, Territory of Arizona—							
Compensation and mileage of members of the legislative assembly, officers, and clerks, and contingent expenses thereof .....	.....	R. S.	329	1853	}	25,600 00	3,000 00
	.....	R. S.	330	1861			
	.....	R. S.	333	1887			
	.....	R. S.	339	1922			
	.....	R. S.	341	1939			
	.....	R. S.	342	1942			
	Mar. 3, 1875	18	357	1			
Contingent Expenses, Territory of Arizona—							
Contingent expenses of the Territory, to be expended by the governor	Mar. 3, 1875	R. S. 18	341 357	1935 1	1,000 00	1,000 00	1,000 00
COLORADO.							
Salaries, Governor, &c., Territory of Colorado—							
Governor .....	.....	R. S.	327	1841, 1845, 1877	3,500 00		
Chief justice and two associate judges, at \$3,000 each...	.....	R. S.	332	1877, 1879	9,000 00		
Secretary	{	R. S.	327	1843, 1845, 1877	}	2,500 00	
		Mar. 3, 1875	18	351				1
Legislative Expenses, Territory of Colorado—							
Messenger for secretary's office	{	R. S.	333	1887	}	300 00	
		R. S.	341	1939			
Rent, light, fuel, stationery, postage, and printing for secretary's office	Mar. 3, 1875	18	357	1			
	do.				1,700 00	2,000 00	22,000 00
Contingent Expenses, Territory of Colorado—							
Contingent expenses of the Territory, to be expended by the governor	Mar. 3, 1875	R. S. 18	341 357	1935 1	1,000 00	1,000 00	1,000 00
DAKOTA.							
Salaries, Governor, &c., Territory of Dakota—							
Governor .....	.....	R. S.	327	1841, 1845, 1877	3,500 00		
Chief justice and two associate judges, at \$3,000 each...	.....	R. S.	332	1877, 1879	9,000 00		
Secretary	{	R. S.	327	1843, 1845, 1877	}	2,500 00	
		Mar. 3, 1875	18	357				1
Legislative Expenses, Territory of Dakota—							
Per diem and mileage of thirteen members of the council and twenty-six members of house of representatives..	{	R. S.	329	1853	}	12,122 50	
		R. S.	339	1922			
		R. S.	342	1942			
Compensation of officers of legislative assembly	{	R. S.	330	1861	}	3,440 00	
		Mar. 3, 1875	18	357				1
Stationery for secretary's office and legislative assembly, and paper for printing laws and journals	Mar. 3, 1875	R. S. 18	341 357	1939 1	1,500 00		
Printing		R. S.	333	1887	4,000 00		
Rent of secretary's office	{	R. S.	341	1939	}	400 00	
		Mar. 3, 1875	18	357				1
Storage of Government property	do.				100 00		
Rent of legislative halls	do.				600 00		
Light, oil, and candles	do.				75 00		
Fuel	do.				250 00		
Porter and care of public property, repairs and purchase of furniture, and incidental expenses	do.				1,650 00		
Postage	do.				100 00	24,237 50	2,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Contingent Expenses, Territory of Dakota—</i> Contingent expenses of the Territory, to be expended by the governor.....	Mar. 3, 1875	R. S. 18	341 357	1935 1	{ }	\$1,000 00	\$1,000 00
DISTRICT OF COLUMBIA.							
<i>Salaries, Board of Health, District of Columbia—</i> Five members of the board of health, at \$2,000 each....	Mar. 3, 1875	R. S., Pt. 2 18	7 359	72, 73 1	{ }	10,000 00	10,000 00
<i>Salaries of Inspectors of Gas and Meters, District of Columbia—</i> Payment of the salaries of the inspector of gas and meters and assistant inspector.	June 23, 1874 Mar. 3, 1875	18 18	278 376	2 1	{ }	3,000 00	3,000 00
<i>Expenses of the Board of Health, District of Columbia—</i> To secure a full and correct record of vital statistics, including births, marriages, and deaths; to prevent the sale of unwholesome food in the District of Columbia; general sanitary inspection, including the daily inspection of streets, alleys, yards, lots, &c., where nuisances injurious to health may exist, and provide for the removal thereof; the removal of all offals, including night-soil, garbage, and dead animals, beyond the limits of the District of Columbia, aggregating many thousands of tons; and to prevent domestic animals from running at large in the cities of Washington and Georgetown, for the protection of the public parks and grounds, &c.)	Mar. 3, 1875	R. S., Pt. 2 18	7 376	72 1	{ }	32,175 00	26,117 50
NOTE.—The act of March 3, 1875, (18 Stat., 376,) appropriated \$26,117 50 for the current fiscal year, with the proviso that the Commissioners of the District shall pay concurrently for such service a like amount out of the treasury of the District.							
<i>Fire Department, District of Columbia—</i> Maintenance of fire department, District of Columbia....	Mar. 3, 1875	R. S., Pt. 2 18	22 359	190, 191 1	{ }	25,000 00	25,000 00
IDAHO.							
<i>Salaries, Governor, &c., Territory of Idaho—</i> Governor.....		R. S.	327	1841, 1845, 1877	{ \$3,500 00		
Chief justice and two associate judges, at \$3,000 each....		R. S.	332	1877, 1879	{ 9,000 00		
Secretary.....	Mar. 3, 1875	R. S. 18	327 357	1843, 1845, 1877 1	{ 2,500 00		
<i>Legislative Expenses, Territory of Idaho—</i> Council:						15,000 00	15,000 00
President, at \$10 per day		R. S.	329	1853	{ 400 00		
Twelve members, at \$6 per day each.....		R. S.	339	1922	{ 2,880 00		
Mileage		R. S.	329	1853	{		
Secretary, at \$8 per day		R. S.	339	1922	{ 1,688 00		
Assistant secretary, doorkeeper, sergeant-at-arms, messenger and porter, enrolling clerk, engrossing clerk, and watchman, at \$5 per day each.....		R. S.	342	1943	{ 320 00		
Chaplain, at \$1 50 per day.....	Mar. 3, 1875	R. S. 18	330 357	1861 1	{ 1,400 00		
House of Representatives:						60 00	
Speaker, at \$10 per day		R. S.	330	1861	{ 400 00		
Twenty-five members, at \$6 per day each.....		R. S.	339	1922	{ 6,000 00		
Mileage		R. S.	329	1853	{		
Chief clerk, at \$8 per day		R. S.	339	1922	{ 2,650 00		
Assistant clerk, doorkeeper, sergeant-at-arms, messenger and porter, enrolling clerk, engrossing clerk, and watchman, at \$5 per day each.....		R. S.	342	1943	{ 320 00		
Chaplain, at \$1 50 per day.....	Mar. 3, 1875	R. S. 18	330 357	1861 1	{ 1,400 00		
Miscellaneous:						60 00	
Printing bills, memorials, &c., for both houses.....		R. S.	330	1861	{		
Printing session laws.....		R. S.	330	1861	{ 700 00		
Printing journals of House.....		R. S.	330	1861	{ 725 00		
Printing journals of Council.....		R. S.	333	1887	{ 720 00		
Stationery for both houses and secretary's office.....		R. S.	333	1887	{ 720 00		
		R. S.	342	1940	{ 1,360 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Legislative Expenses, Territory of Idaho—Continued.</i>							
One extra clerk for secretary's office, at \$5 per day	{	R. S.	330	1-61	} \$200 00		
Rent of secretary's office	{	R. S.	342	1940			
Rent of fire-proof warehouse for storing Government property and legislative furniture .....	.....	R. S.	342	1940			
Rent of legislative halls and committee rooms .....	.....	R. S.	342	1940	480 00		
Light, oil, and candles, wood, and for sawing and splitting the same, books and journals for Council and House, lamps, brooms, dusters, &c .....	.....	R. S.	342	1940	600 00		
Furniture and repairs of furniture for legislative halls .....	.....	R. S.	342	1940	992 00		
Fixing up and preparing legislative halls and committee rooms, and hauling furniture to and from the halls	{	R. S.	342	1940	438 00		
	{ Mar. 3, 1875	18	357	1	550 00		
						\$25,783 00	\$1,600 00
<i>Contingent Expenses, Territory of Idaho—</i>							
Contingent expenses of the Territory, to be expended by the governor	{	R. S.	341	1935	}	1,000 00	1,000 00
	{ Mar. 3, 1875	18	357	1			
MONTANA.							
<i>Salaries, Governor, &c., Territory of Montana—</i>							
Governor	{	R. S.	327	1841, 1845, 1877	} 3,500 00		
Chief justice and two associate judges, at \$3,000 each .....	.....	R. S.	332	1877, 1879			
Secretary	{	R. S.	327	1843, 1845, 1877			
	{ Mar. 3, 1875	18	358	1	2,500 00	15,000 00	15,000 00
<i>Legislative Expenses, Territory of Montana—</i>							
Rent of secretary's office	{	R. S.	333	1887	} 500 00		
	{ Mar. 3, 1875	18	358	1			
Rent of fire-proof building for storing Government property	do				120 00	2,470 00	22,680 00
Hire of porter	do				700 00		
Stationery, postage, and printing	do				700 00		
Fuel and light	do				250 00		
Incidental expenses	do				200 00		
<i>Contingent Expenses, Territory of Montana—</i>							
Contingent expenses of the Territory, to be expended by the governor	{	R. S.	341	1935	}	1,000 00	1,000 00
	{ Mar. 3, 1875	18	358	1			
NEW MEXICO.							
<i>Salaries, Governor, &c., Territory of New Mexico—</i>							
Governor	{	R. S.	327	1841, 1845, 1877	} 3,500 00		
Chief justice and two associate judges, at \$3,000 each .....	.....	R. S.	332	1877, 1879			
Secretary	{	R. S.	327	1843, 1845, 1877			
Interpreter and translator in the Executive office	{ Mar. 3, 1875	18	358	1	500 00	15,500 00	15,500 00
<i>Legislative Expenses, Territory of New Mexico—</i>							
Rent, stationery, fuel, light, printing, postage, pay of messenger, and other incidental expenses	{	R. S.	333	1887	}	1,300 00	22,043 90
	{ Mar. 3, 1875	18	358	1			
<i>Contingent Expenses, Territory of New Mexico—</i>							
Contingent expenses of the Territory, to be expended by the governor	{	R. S.	341	1935	}	1,000 00	1,000 00
	{ Mar. 3, 1875	18	358	1			
UTAH.							
<i>Salaries, Governor, &c., Territory of Utah—</i>							
Governor	{	R. S.	327	1841, 1845, 1877	} 3,500 00		
Chief justice and two associate judges, at \$3,000 each .....	.....	R. S.	332	1877, 1879			
Secretary	{	R. S.	327	1843, 1845, 1877			
	{ Mar. 3, 1875	18	358	1	2,500 00	15,000 00	15,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Legislative Expenses, Territory of Utah—</i>							
Current and contingent expenses of secretary's office... {	Mar. 3, 1875	R. S. 18	341 358	1939 1	{	\$2,000 00	\$25,000 00
<i>Contingent Expenses, Territory of Utah—</i>							
Contingent expenses of the Territory, to be expended by the governor {	Mar. 3, 1875	R. S. 18	341 358	1935 1	{	1,000 00	1,000 00
WASHINGTON.							
<i>Salaries, Governor, &c., Territory of Washington—</i>							
Governor..... {		R. S.	327	1841, 1845, 1877	{	\$3,500 00	
Chief justice and two assistant judges, at \$3,000 each .. {		R. S.	332	1877, 1879	{	9,000 00	
Secretary..... {		R. S.	327	1843, 1845, 1877	{	2,500 00	
	Mar. 3, 1875	18	358	1			
						15,000 00	15,000 00
<i>Legislative Expenses, Territory of Washington—</i>							
Rent of secretary's office..... {	Mar. 3, 1875	R. S. 18	342 358	1940 1	{	300 00	
Hire of messenger..... {	do				{	420 00	
Light, fuel, stationery, postage, office furniture, repair of legislative halls, and other incidental expenses..... {	do				{	480 00	
						1,200 00	22,000 00
<i>Contingent Expenses, Territory of Washington—</i>							
Contingent expenses of the Territory, to be expended by the governor {	Mar. 3, 1875	R. S. 18	341 358	1938 1	{	1,500 00	1,000 00
WYOMING.							
<i>Salaries, Governor, &c., Territory of Wyoming—</i>							
Governor..... {		R. S.	327	1841, 1845, 1877	{	3,500 00	
Chief justice and two assistant judges, at \$3,000 each... {		R. S.	332	1877, 1879	{	9,000 00	
Secretary..... {		R. S.	327	1843, 1845, 1877	{	2,500 00	
	Mar. 3, 1875	18	359	1			
						15,000 00	15,000 00
<i>Legislative Expenses, Territory of Wyoming—</i>							
Rent, fuel, light, storage of Government property, stationery, printing, postage, messenger hire, and other incidental expenses..... {	Mar. 3, 1875	R. S. 18	333 341 359	1887 1939 1	{	2,500 00	22,000 00
<i>Contingent Expenses, Territory of Wyoming—</i>							
Contingent expenses of the Territory, to be expended by the governor {	Mar. 3, 1875	R. S. 18	341 359	1935 1	{	1,000 00	1,000 00
Total Territorial Governments.....						302,765 50	351,441 40
INTERNAL REVENUE.							
<i>Salaries and Expenses of Collectors of Internal Revenue.....</i>							
		R. S.	52	321			
		R. S.	604	3141, 3142			
		R. S.	605	3145			
		R. S.	606	3150			
	Feb. 8, 1875	18	309	13			
	Mar. 3, 1875	18	352	1			
Alabama:							
First district.....	\$10,000 00						
Second district.....	10,500 00						
Third district.....	8,000 00						
						28,500 00	
Arizona.....						5,000 00	
Arkansas:							
First district.....	7,500 00						
Second district.....	6,000 00						
Third district.....	8,000 00						
						21,500 00	
California:							
First district.....	47,000 00						
Fourth district.....	16,500 00						
Fifth district.....	11,500 00						
						75,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries and Expenses of Collectors of Internal Revenue—Continued.</i>							
Colorado					\$11,500 00		
Connecticut:							
First district.....	\$12,500 00						
Second district.....	13,000 00						
Dakota.....					25,500 00		
Delaware.....					5,000 00		
District of Columbia.....					10,000 00		
Florida.....					7,500 00		
Georgia:					11,500 00		
First district.....	9,500 00						
Second district.....	11,000 00						
Third district.....	11,000 00						
Fourth district.....	14,000 00						
Idaho					45,500 00		
Illinois:					6,500 00		
First district.....	27,500 00						
Second district.....	6,000 00						
Third district.....	9,500 00						
Fourth district.....	11,000 00						
Fifth district.....	15,000 00						
Sixth district.....	8,500 00						
Seventh district.....	6,000 00						
Eighth district.....	14,000 00						
Ninth district.....	7,000 00						
Tenth district.....	7,500 00						
Eleventh district.....	5,500 00						
Twelfth district.....	8,500 00						
Thirteenth district.....	7,000 00						
Indiana:					133,000 00		
First district.....	10,000 00						
Second district.....	7,000 00						
Third district.....	6,500 00						
Fourth district.....	12,500 00						
Fifth district.....	4,500 00						
Sixth district.....	8,500 00						
Seventh district.....	10,000 00						
Eighth district.....	4,500 00						
Ninth district.....	6,000 00						
Tenth district.....	6,000 00						
Eleventh district.....	5,000 00						
Iowa:					80,500 00		
First district.....	7,500 00						
Second district.....	7,000 00						
Third district.....	8,000 00						
Fourth district.....	8,500 00						
Fifth district.....	8,000 00						
Sixth district.....	7,500 00						
Kansas					46,500 00		
Kentucky:					10,500 00		
Second district.....	14,000 00						
Third district.....	6,500 00						
Fourth district.....	12,000 00						
Fifth district.....	15,500 00						
Sixth district.....	17,500 00						
Seventh district.....	13,500 00						
Eighth district.....	9,500 00						
Ninth district.....	9,500 00						
Louisiana:					98,000 00		
First district.....	19,000 00						
Second district.....	9,500 00						
Third district.....	10,000 00						
Maine:					38,500 00		
First district.....	4,500 00						
Second district.....	4,000 00						
Third district.....	4,000 00						
Fourth district.....	4,000 00						
Fifth district.....	4,000 00						
					20,500 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries and Expenses of Collectors of Internal Revenue—Continued.</i>							
Maryland:							
First district.....	\$15,000 00						
Third district.....	21,000 00						
Fourth district.....	7,500 00						
Fifth district.....	7,500 00						
					\$51,000 00		
Massachusetts:							
First district.....	7,000 00						
Third district.....	19,500 00						
Fifth district.....	18,000 00						
Eighth district.....	7,000 00						
Tenth district.....	12,000 00						
					63,500 00		
Michigan:							
First district.....	15,500 00						
Second district.....	5,500 00						
Third district.....	8,000 00						
Fourth district.....	7,000 00						
Fifth district.....	6,500 00						
Sixth district.....	9,500 00						
					52,000 00		
Minnesota:							
First district.....	8,500 00						
Second district.....	9,500 00						
					18,000 00		
Mississippi:							
First district.....	15,000 00						
Second district.....	12,500 00						
					27,500 00		
Missouri:							
First district.....	25,000 00						
Second district.....	9,000 00						
Third district.....	7,000 00						
Fourth district.....	6,500 00						
Fifth district.....	10,500 00						
Sixth district.....	12,000 00						
					70,000 00		
Montana.....					8,500 00		
Nebraska.....					13,000 00		
Nevada.....					10,500 00		
New Hampshire:							
First district.....	5,500 00						
Second district.....	5,000 00						
Third district.....	4,500 00						
					15,000 00		
New Jersey:							
First district.....	7,500 00						
Second district.....	7,500 00						
Third district.....	11,500 00						
Fourth district.....	7,500 00						
Fifth district.....	23,500 00						
					57,500 00		
New Mexico.....					7,500 00		
New York:							
First district.....	33,500 00						
Second district.....	24,500 00						
Third district.....	34,500 00						
Fourth district.....	25,500 00						
Tenth district.....	11,500 00						
Eleventh district.....	7,500 00						
Twelfth district.....	7,500 00						
Thirteenth district.....	6,000 00						
Fourteenth district.....	11,000 00						
Fifteenth district.....	7,000 00						
Sixteenth district.....	4,500 00						
Seventeenth district.....	4,500 00						
Eighteenth district.....	6,000 00						
Nineteenth district.....	4,500 00						
Twentieth district.....	5,000 00						
Twenty-first district.....	6,500 00						
Twenty-second district.....	5,000 00						
Twenty-third district.....	8,500 00						
Twenty-fourth district.....	9,000 00						
Twenty-fifth district.....	5,000 00						
Twenty-sixth district.....	6,500 00						
Twenty-seventh district.....	8,500 00						
Twenty-eighth district.....	8,500 00						

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries and Expenses of Collectors of Internal Revenue—Continued.</i>							
New York:							
Twenty-ninth district.....	\$6,000 00						
Thirtieth district.....	17,000 00						
Thirty-second district.....	26,000 00						
					\$299,500 00		
North Carolina:							
First district.....	8,000 00						
Second district.....	7,500 00						
Third district.....	9,000 00						
Fourth district.....	18,000 00						
Fifth district.....	14,000 00						
Sixth district.....	14,000 00						
Seventh district.....	11,000 00						
					81,500 00		
Ohio:							
First district.....	27,500 00						
Third district.....	15,500 00						
Fourth district.....	7,500 00						
Fifth district.....	5,000 00						
Sixth district.....	8,500 00						
Seventh district.....	8,500 00						
Eighth district.....	4,500 00						
Ninth district.....	8,000 00						
Tenth district.....	11,000 00						
Eleventh.....	8,500 00						
Twelfth district.....	7,500 00						
Thirteenth district.....	6,500 00						
Fourteenth district.....	5,000 00						
Fifteenth district.....	6,000 00						
Sixteenth district.....	6,000 00						
Seventeenth district.....	6,000 00						
Eighteenth district.....	13,000 00						
Nineteenth district.....	6,000 00						
					160,500 00		
Oregon.....					9,500 00		
Pennsylvania:							
First district.....	36,500 00						
Fifth district.....	11,000 00						
Sixth district.....	12,000 00						
Eighth district.....	9,000 00						
Ninth district.....	13,000 00						
Tenth district.....	8,500 00						
Eleventh district.....	8,000 00						
Twelfth district.....	8,500 00						
Thirteenth district.....	5,000 00						
Fourteenth district.....	7,500 00						
Fifteenth district.....	12,000 00						
Sixteenth district.....	8,500 00						
Seventeenth district.....	5,000 00						
Eighteenth district.....	5,500 00						
Nineteenth district.....	8,000 00						
Twentieth district.....	7,500 00						
Twenty-first district.....	8,000 00						
Twenty-second district.....	14,000 00						
Twenty-third district.....	10,500 00						
Twenty-fourth district.....	7,500 00						
					205,500 00		
Rhode Island.....					9,000 00		
South Carolina:							
First district.....	5,500 00						
Second district.....	7,000 00						
Third district.....	9,000 00						
					21,500 00		
Tennessee:							
First district.....	5,500 00						
Second district.....	6,500 00						
Third district.....	6,500 00						
Fourth district.....	10,500 00						
Fifth district.....	12,000 00						
Sixth district.....	6,000 00						
Seventh district.....	7,000 00						
Eighth district.....	7,000 00						
					61,000 00		
Texas:							
First district.....	18,000 00						
Third district.....	12,000 00						
Fourth district.....	10,000 00						
					40,000 00		
Utah.....					7,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries and Expenses of Collectors of Internal Revenue—Continued.</i>							
Vermont:							
Second district							
Third district							
Virginia:							
Second district							
Third district							
Fourth district							
Fifth district							
Sixth district							
Seventh district							
Eighth district							
Washington Territory							
West Virginia:							
First district							
Second district							
Third district							
Wisconsin:							
First district							
Second district							
Third district							
Sixth district							
Wyoming Territory							
<i>Salaries and Expenses of Supervisors and Subordinate Officers of Internal Revenue—</i>							
Salaries, expenses, and fees of supervisors, agents, surveyors, gaugers, storekeepers, and miscellaneous expenses		R. S.	52	321			
		R. S.	154	827			
		R. S.	158	838			
		R. S.	607	3152, 3160			
		R. S.	616	3192			
		R. S.	617	3197			
		R. S.	619	3208			
		R. S.	624	3238			
		R. S.	634	3264, 3267			
		R. S.	646	3312			
	R. S.	655	3341				
	R. S.	662	3369				
	Mar. 3, 1875	18	352	1			
<i>Punishment for Violation of Internal-Revenue Laws—</i>							
Detecting and bringing to trial and punishment persons guilty of violating the internal-revenue laws, or conniving at the same, including payments for information and detection of such violation		R. S.	690	3463			
	Mar. 3, 1875	18	352	1			
<i>Stamps, Paper, and Dies—</i>							
Dies, paper, and stamps		R. S.	52	321			
		R. S.	624	3238			
		R. S.	646	3312, 3313			
		R. S.	655	3341			
		R. S.	662	3369			
		R. S.	670	3395			
	Mar. 3, 1875	18	351	1			
Total Internal Revenue						5, 051, 000 00	5, 051, 000 00
TREASURY MISCELLANEOUS.							
LIFE-SAVING STATIONS.							
<i>Life-saving Service—</i>							
One superintendent for the life-saving stations on the coasts of Maine and New Hampshire	Mar. 3, 1875	18	371	1	1, 000 00		
One superintendent for the life-saving stations on the coast of Massachusetts	do				1, 000 00		
One superintendent for the life-saving stations on the coasts of Long Island and Rhode Island		R. S.	824	4243			
		R. S.	825	4248			
	Mar. 3, 1875	18	371	1			
One assistant superintendent on the coasts of Long Island and Rhode Island	June 20, 1874	18	127	4	500 00		
	Mar. 3, 1875	18	371	1			
One superintendent for the life-saving stations on the coast of New Jersey		R. S.	824	4242			
	Mar. 3, 1875	18	371	1	1, 500 00		
One superintendent for the life-saving stations on the coasts of Delaware, Maryland, and Virginia	June 20, 1874	18	127	2, 3			
	Mar. 3, 1875	18	371	1	1, 000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Life-saving Service—Continued.</i>							
One superintendent for the life-saving stations on the coasts of Virginia and North Carolina.....	June 20, 1874	18	127	2, 3	} \$1,000 00		
One superintendent for the houses of refuge on the coast of Florida	Mar. 3, 1875	18	371	1			
One superintendent for the life-saving stations and life-boat stations on Lakes Ontario and Erie	do.....	.....	.....	.....	1,000 00		
One superintendent for the life-saving stations and life-boat stations on Lakes Huron and Superior	do.....	.....	.....	.....	1,000 00		
One superintendent for the life-saving stations and life-boat stations on Lake Michigan.....	do.....	.....	.....	.....	1,000 00		
One hundred and fifty-two keepers of stations, at \$200 each	June 20, 1874	R. S. 18	824	4243-9	} 30,400 00		
.....	Mar. 3, 1875	18	127	2, 3			
Five keepers of houses of refuge for the coast of Florida, at \$40 per month.....	June 20, 1874	18	126,7	1-3	} 2,400 00		
.....	Mar. 3, 1875	18	372	1			
Employment of crews of experienced surfmen at such stations and for such periods as the Secretary of the Treasury may deem necessary and proper	June 20, 1874	R. S. 18	824	4244	} 155,136 00		
.....	Mar. 3, 1875	18	127	5			
Compensation of volunteers at life-boat stations.....	June 20, 1874	18	372	1	} 8,160 00		
.....	June 20, 1874	18	127	6			
						\$207,596 00	\$201,580 00
<i>Life-saving Service, Contingent Expenses—</i>							
Fuel for one hundred and fifty-seven stations and houses of refuge; repairs and outfits for the same; supplies and provisions for houses of refuge and for shipwrecked persons succored at stations; travelling expenses of officers under orders from the Treasury Department, and contingent expenses, including freight, storage, repairs to apparatus, medals, stationery, advertising, and miscellaneous expenses that cannot be included under any other head, of life-saving stations, life-boat stations, and houses of refuge on the coasts of the United States	Appropriated.	18	372	1	.....	40,000 00	30,000 00
REVENUE-CUTTER SERVICE.							
<i>Expenses of Revenue-Cutter Service—</i>							
Pay of officers: 34 captains, 101 lieutenants, and 63 engineers	Mar. 3, 1875	R. S. 18	538	2753	} 331,300 00		
.....	Appropriated.	18	372	1			
Pay of pilots	Appropriated.	18	372	1	30,000 00		
Rations for officers: 34 captains, 101 lieutenants, 63 engineers, and pilots employed	Appropriated.	R. S. 18	538	2755	} 25,583 40		
.....	Appropriated.	18	372	1			
Pay of crews: 860 petty officers, seamen, cooks, stewards, boys, coal-passers, and firemen	Mar. 3, 1875	R. S. 18	538	2754	} 283,000 00		
.....	Mar. 3, 1875	18	372	1			
Rations for crews: 860 petty officers, seamen, cooks, stewards, boys, coal-passers, and firemen; 313,900 rations, at 33 cents, including liquor equivalent	Mar. 3, 1875	R. S. 18	538	2756	} 98,000 00		
.....	Mar. 3, 1875	18	372	1			
Fuel for 38 vessels; repairs and outfits for same; shipchandlery and engineers' stores for same; travelling expenses of officers travelling on duty under orders from the Treasury Department; commutation of quarters; and contingent expenses, including wharfage, towage, dockage, freight, advertising, surveys, &c., and miscellaneous expenses which cannot be included under special heads	Appropriated	18	372	1	260,000 00		
						1,027,883 40	1,027,883 40
MISCELLANEOUS.							
<i>Suppressing Counterfeiting and Fraud—</i>							
Expenses of detecting and bringing to trial and punishment persons engaged in counterfeiting Treasury notes, bonds, national-bank notes, and other securities of the United States, as well as the coins of the United States, and other frauds on the Government.....	July 11, 1862	12	533	5	}	125,000 00	125,000 00
.....	Mar. 3, 1863	12	713	8			
.....	Appropriated	18	375	1			
<i>Compensation in Lieu of Moieties—</i>							
Compensation in lieu of moieties in certain cases under the customs-revenue laws	June 22, 1874	18	186	3	}	200,000 00	200,000 00
.....	Mar. 3, 1875	18	375	1			
Total Treasury Miscellaneous.....						1,600,479 40	1,584,463 40
Total Treasury Department						12,518,010 40	12,183,266 30

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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WAR DEPARTMENT.							
OFFICE OF THE SECRETARY.							
Salaries, Office of Secretary of War—							
Secretary.....	June 20, 1874	R. S. 18	34 99	214 1	\$8,000 00		
	Mar. 3, 1875	18	359	1			
Chief clerk.....	June 20, 1874	R. S. 18	34 99	215 1	2,500 00		
	Mar. 3, 1875	18	359	1			
Disbursing clerk.....	do.....				2,000 00		
Two chief clerks of divisions, at \$2,000 each.....	June 20, 1874	18	99	1	4,000 00		
	Mar. 3, 1875	18	359	1			
Seven clerks of class four.....	June 20, 1874	R. S. 18	26 99	167 1	12,600 00		
	Mar. 3, 1875	18	359	1			
Six clerks of class three.....	do.....				9,600 00		
Six clerks of class two.....	do.....				8,400 00		
Fifteen clerks of class one.....	do.....				18,000 00		
Ten messengers, at \$840 each.....	June 20, 1874	R. S. 18	26 99	167 1	8,400 00		
	Mar. 3, 1875	18	359	1			
Nine laborers, at \$720 each.....	do.....				6,480 00		
Seven watchmen for northwest Executive building, at \$720 each.....	do.....				5,040 00		
To enable the Secretary of War to have the rebel archives examined and copies furnished for the Government.....	Appropriated.	18	359	1	6,600 00	\$91,620 00	\$91,620 00
Contingent Expenses, Office of Secretary of War—							
Blank books, stationery, labor, books, maps, and miscellaneous items.....	Appropriated.	18	359	1		12,000 00	12,000 00
OFFICE OF THE ADJUTANT GENERAL.							
Salaries, Office of Adjutant General—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	360	1			
Twelve clerks of class four, (three temporary).....	June 20, 1874	R. S. 18	26 100	167 1	21,600 00		
	Mar. 3, 1875	18	360	1			
Twenty-one clerks of class three, (six temporary).....	do.....				33,600 00		
Forty-five clerks of class two, (twenty temporary).....	do.....				63,000 00		
One hundred and sixty clerks of class one, (sixty temporary).....	do.....				192,000 00		
Ten messengers, at \$840 each.....	do.....				8,400 00	320,600 00	320,600 00
Contingent Expenses, Office of Adjutant General—							
Blank books, stationery, binding, &c.....	Appropriated.	18	360	1		15,000 00	8,000 00
OFFICE OF THE INSPECTOR GENERAL.							
Salaries, Office of Inspector General—							
One clerk of class four.....	June 20, 1874	R. S. 18	26 100	167 1	1,800 00		
	Mar. 3, 1875	18	360	1			
One messenger.....	do.....				840 00	2,640 00	2,640 00
BUREAU OF MILITARY JUSTICE.							
Salaries, Bureau of Military Justice—							
Chief clerk.....	June 20, 1874	R. S. 18	34 101	215 1	2,000 00		
	Mar. 3, 1875	18	360	1			
One clerk of class four.....	June 20, 1874	R. S. 18	26 101	167 1	1,800 00		
	Mar. 3, 1875	18	360	1			
One clerk of class three.....	do.....				1,600 00		
Two clerks of class two.....	do.....				2,800 00		
Four clerks of class one.....	do.....				4,800 00		
One messenger.....	do.....				840 00	13,840 00	13,840 00
Contingent Expenses, Bureau of Military Justice—							
Office furniture, stationery, law books, &c.....	Appropriated.	18	360	1		500 00	500 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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SIGNAL OFFICE.							
Salaries, Signal Office—							
Two clerks of class four.....	June 20, 1874	R. S. 18	26 101	167 1	\$3,600 00		
One messenger.....	Mar. 3, 1875	18	360	1			
	do.				840 00		
						\$4,440 00	\$4,440 00
OFFICE OF THE QUARTERMASTER GENERAL.							
Salaries, Office of Quartermaster General—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	360	1			
Eight clerks of class four.....	June 20, 1874	R. S. 18	26 100	167-9 1	14,400 00		
	Mar. 3, 1875	18	360	1			
Ten clerks of class three.....	do.				16,000 00		
Thirty clerks of class two, (six temporary).....	do.				42,000 00		
Fifty clerks of class one, (ten temporary).....	do.				60,000 00		
Twenty-eight copyists, at \$900 each, (ten temporary).....	do.				25,200 00		
One female messenger, at \$30 per month.....	do.				360 00		
One messenger.....	do.				840 00		
Two assistant messengers, at \$720 each.....	do.				1,440 00		
Eight laborers, at \$720 each.....	do.				5,760 00		
One engineer.....	do.				1,200 00		
One fireman.....	do.				720 00		
Five watchmen, at \$720 each.....	do.				3,600 00		
One draughtsman.....	Mar. 3, 1875	18	360	1	1,800 00		
						175,320 00	175,320 00
Contingent Expenses, Office of Quartermaster General—							
Stationery, office furniture, repairs, and miscellaneous items.....	Appropriated.	18	361	1		10,000 00	7,000 00
OFFICE OF THE COMMISSARY GENERAL.							
Salaries, Office of Commissary General—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	361	1			
Two clerks of class four.....	June 30, 1874	R. S. 18	26 100	167 1	3,600 00		
	Mar. 3, 1875	18	361	1			
Four clerks of class three.....	do.				6,400 00		
Five clerks of class two.....	do.				7,000 00		
Twelve clerks of class one.....	do.				14,400 00		
One messenger.....	do.				840 00		
Three laborers, at \$720 each.....	do.				2,160 00		
Two watchmen, at \$720 each.....	do.				1,440 00		
						37,840 00	37,840 00
Contingent Expenses, Office of Commissary General—							
For rent of building, blank books, stationery, fuel, repairs, &c.....	Appropriated	18	361	1		8,000 00	8,000 00
OFFICE OF THE SURGEON GENERAL.							
Salaries, Office of Surgeon General—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	361	1			
Eight clerks of class four.....	June 20, 1874	R. S. 18	26 100	167-9 1	14,400 00		
	Mar. 3, 1875	18	361	1			
Six clerks of class three.....	do.				9,600 00		
Nine clerks of class two.....	do.				12,600 00		
One hundred and twenty clerks of class one, (twenty-eight temporary).....	do.				144,000 00		
One anatomist at the Army Medical Museum.....	do.				1,600 00		
One engineer in division of records and museum.....	do.				1,400 00		
One messenger.....	do.				840 00		
Twenty-two watchmen and laborers, at \$720 each, (six temporary).....	do.				15,840 00		
						202,280 00	202,280 00
Contingent Expenses, Office of Surgeon General—							
For rent of office, blank books, stationery, fuel, office furniture, &c.....	Appropriated.	18	361	1		7,000 00	7,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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OFFICE OF THE CHIEF OF ORDNANCE.							
Salaries, Office of Chief of Ordnance—							
Chief clerk.....	June 20, 1874	R. S. 18	34 101	215 1	\$2,000 00		
	Mar. 3, 1875	18	361	1			
Three clerks of class four.....	June 20, 1874	R. S. 18	26 101	167 1	5,400 00		
	Mar. 3, 1875	18	361	1			
One clerk of class four.....	Submitted.....				1,800 00		
Three clerks of class three.....	June 20, 1874	R. S. 18	26 101	167 1	4,800 00		
	Mar. 3, 1875	18	361	1			
One clerk of class three.....	Submitted.....				1,600 00		
Three clerks of class two.....	June 20, 1874	R. S. 18	26 101	167 1	4,200 00		
	Mar. 3, 1875	18	361	1			
One clerk of class two.....	Submitted.....				1,400 00		
Eight clerks of class one.....	June 20, 1874	R. S. 18	26 101	167 1	9,600 00		
	Mar. 3, 1875	18	361	1			
Four clerks of class one.....	Submitted.....				4,800 00		
One messenger.....	June 20, 1874	R. S. 18	26 101	167 1	840 00		
	Mar. 3, 1875	18	361	1			
One laborer.....	do.....				720 00		
Two laborers, at \$720 each.....	Submitted.....				1,440 00		
NOTE.—The additional clerks and laborers estimated for are to take the place of the enlisted force, for which provision has only been made by Congress for the current fiscal year.						\$38,600 00	\$27,560 00
Contingent Expenses, Office of Chief of Ordnance—							
Stationery, envelopes, wrapping-paper for sending blanks to the arsenals, forts, permanent batteries, and troops in the field; telegrams, express charges, and incidentals of a similar nature; furniture, matting, carpets, oil-cloth, professional books for Ordnance department library, pamphlets, and newspapers.....	Appropriated.....	18	361	1		2,000 00	2,000 00
OFFICE OF THE PAYMASTER GENERAL.							
Salaries, Office of Paymaster General—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	361	1			
Seven clerks of class four.....	June 20, 1874	R. S. 18	26 100	167 1	12,600 00		
	Mar. 3, 1875	18	361	1			
Eight clerks of class three.....	do.....				12,800 00		
Seventeen clerks of class two, (two temporary).....	do.....				23,800 00		
Sixteen clerks of class one, (three temporary).....	do.....				19,200 00		
One messenger.....	do.....				840 00		
Three watchmen, at \$720 each.....	do.....				2,160 00		
Four laborers, at \$720 each.....	do.....				2,880 00		
One messenger.....	Submitted.....				840 00		
						77,120 00	77,720 00
Contingent Expenses, Office of Paymaster General—							
Stationery, office furniture, and miscellaneous items.....	Appropriated.....	18	361	1		4,000 00	4,000 00
OFFICE OF THE CHIEF OF ENGINEERS.							
Salaries, Office of Chief Engineer—							
Chief clerk.....	June 20, 1874	R. S. 18	34 100	215 1	2,000 00		
	Mar. 3, 1875	18	361	1			
Five clerks of class four.....	June 20, 1874	R. S. 18	26 100	167 1	9,000 00		
	Mar. 3, 1875	18	361	1			
Four clerks of class three.....	do.....				6,400 00		
Four clerks of class two.....	do.....				5,600 00		
Four clerks of class one.....	do.....				4,800 00		
One messenger.....	do.....				840 00		
Three laborers, at \$720 each.....	do.....				2,160 00		
						30,800 00	30,800 00
Contingent Expenses, Office of Chief Engineer—							
Stationery, office furniture, and miscellaneous and incidental expenses, including purchase of professional books, maps, and two daily Washington newspapers.....	Appropriated.....	18	361	1		3,000 00	3,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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MISCELLANEOUS.							
<i>Salaries, Superintendent, &c., War Department Building—</i>							
Superintendent.....	June 20, 1874	R. S. 18	34 101	215 1	\$250 00		
	Mar. 3, 1875	18	361	1			
Four watchmen, at \$720 each.....	June 20, 1874	R. S. 18	26 101	167 1	2,880 00		
	Mar. 3, 1875	18	361	1			
Two laborers, at \$720 each.....	do.				1,440 00		
Engineer in charge of heating the building.....	do.				1,400 00		
						\$5,970 00	\$5,970 00
<i>Contingent Expenses, War Department Building—</i>							
Labor, fuel, light, and miscellaneous items.....	Appropriated.	18	362	1		8,000 00	8,000 00
<i>Salary of Superintendent, Building corner of Fifteenth Street and Pennsylvania Avenue—</i>							
Superintendent of building occupied as the Quartermaster General's office.....	June 20, 1874	R. S. 18	34 101	215 1	250 00		
	Mar. 3, 1875	18	362	1			
<i>Salaries, Superintendent, &c., Building corner Fifteenth and F Streets—</i>							
Superintendent.....	June 20, 1874	R. S. 18	34 102	215 1	250 00		
	Mar. 3, 1875	18	362	1			
Five watchmen, at \$720 each.....	June 20, 1874	R. S. 18	26 102	167 1	3,600 00		
	Mar. 3, 1875	18	362	1			
Two laborers, at \$720 each.....	do.				1,440 00		
						5,290 00	5,290 00
<i>Contingent Expenses, Building corner Fifteenth and F Streets—</i>							
Rent of building, fuel, and miscellaneous items.....	Appropriated.	18	362	1		12,500 00	12,500 00
<i>Salaries, Superintendent, &c., Building corner Seventeenth and F Streets—</i>							
Superintendent.....	June 20, 1874	R. S. 18	34 101	215 1	250 00		
	Mar. 3, 1875	18	362	1			
Four watchmen, at \$720 each.....	June 20, 1874	R. S. 18	26 101	167 1	2,880 00		
	Mar. 3, 1875	18	362	1			
Two laborers, at \$720 each.....	do.				1,440 00		
						4,570 00	4,570 00
<i>Contingent Expenses, Building corner Seventeenth and F Streets—</i>							
Fuel for warming the building and the Ordnance museum, and for operation of ventilating fan in summer; repair of warming and ventilating apparatus; pay of steam engineer and firemen; and general repairs of the building, and miscellaneous items.....	Appropriated.	18	362	1		10,000 00	8,000 00
<i>Salary of Superintendent, Building on Tenth Street—</i>							
Superintendent of building occupied as the Surgeon General's office.....	June 20, 1874	18	101	1	250 00		
	Mar. 3, 1875	18	362	1			
<i>Salary of Superintendent, Building on Madison Place—</i>							
Superintendent of building occupied as the Commissary General's office.....	Mar. 3, 1875	18	416	1	250 00		250 00
<i>Postage, War Department—</i>							
Postage on official mail-matter for the War Department and its bureaus.....	Appropriated.	18	359	1		80,612 00	85,669 00
PUBLIC BUILDINGS AND GROUNDS.							
<i>Salaries of Employés, Public Buildings and Grounds under Chief Engineer—</i>							
One clerk.....	Mar. 3, 1875	R. S. 18	320 348	1797-9 1	1,400 00		
One messenger.....	do.						
One public gardener.....	do.				840 00		
One landscape gardener.....	do.				1,440 00		
One laborer in charge of water-closets in the Capitol.....	do.				1,800 00		
One foreman and laborers employed in the public grounds.....	do.				720 00		
Four laborers for care of centre building of the Capitol.....	do.				21,456 00		
One furnace-keeper for old hall House of Representatives.....	do.				2,880 00		
One furnace-keeper at the Executive Mansion.....	do.				864 00		
Two policemen at the Executive Mansion.....	do.				864 00		
To equalize pay of policemen at Executive Mansion with pay of policemen at the Capitol.....	do.				2,640 00		
	Submitted.....				528 00		
One night watchman at the Executive Mansion.....	Mar. 3, 1875	R. S. 18	320 348	1797-9 1	900 00		
Two doorkeepers at the Executive Mansion.....	do.						
One night usher at the Executive Mansion.....	do.				2,400 00		
	do.				1,200 00		

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General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries of Employés, Public Buildings and Grounds under Chief Engineer—Continued.</i>							
Two doorkeepers for Navy Yard and Upper bridges, and { for fuel, oil, lamps, matches, &c }	Mar. 3, 1875	R. S. 18	320 348	1797-9 1	{ \$1,600 00		
One watchman for Franklin square	do				720 00		
Person in charge of heating apparatus for Library of Congress	do				864 00		
Four watchmen in reservation No. 2, (Smithsonian grounds)	do				2,880 00		
One watchman in Lincoln square	do				540 00		
One watchman in Lafayette square	do				720 00		
One watchman in Washington circle	do				540 00		
One watchman in circle Vermont and Massachusetts avenues	do				540 00		
One watchman in Rawlins square	do				540 00		
One watchman in Pacific Place, (circle Massachusetts, Connecticut, and New Hampshire avenues)	do				540 00		
One bridge-keeper for Chain bridge	do				720 00		
One watchman in Judiciary square	do				720 00		
One watchman for Thirteenth-street circle	Submitted				540 00		
Two watchmen for Monument grounds	do				1,440 00		
One watchman for Armory square	do				720 00		
One watchman for reservation between Third and Sixth streets	do				720 00		
						\$54,276 00	\$50,328 00
<i>Contingent Expenses, Public Buildings and Grounds under Chief Engineer—</i>							
For contingent and incidental expenses	Appropriated	18	348	1		2,000 00	2,000 00
NOTE.—The estimate of the Secretary of War for "printing and binding," under section 2, act May 8, 1872, (R. S. 725, sec. 3661,) will be found under the title of "Miscellaneous," <i>post</i> .							
Total War Department						1,240,568 00	1,219,237 00
NAVY DEPARTMENT.							
OFFICE OF THE SECRETARY.							
<i>Salaries, Office of Secretary of Navy—</i>							
Secretary	Mar. 3, 1875	R. S. 18	69 362	415 1	{ 8,000 00		
Chief clerk	Mar. 3, 1875	R. S. 18	69 362	416 1	{ 2,500 00		
Disbursing clerk	do				2,000 00		
Four clerks of class four	Mar. 3, 1875	R. S. 18	26 362	167 1	{ 7,200 00		
Four clerks of class three	do				6,400 00		
Two clerks of class two	do				2,800 00		
Three clerks of class one	do				3,600 00		
Two messengers, at \$840 each	do				1,680 00		
Two laborers, at \$720 each	do				1,440 00		
						\$35,620 00	\$35,620 00
<i>Contingent Expenses, Office of Secretary of Navy—</i>							
Stationery, furniture, newspapers, and miscellaneous items	Appropriated	18	362	1		5,000 00	5,000 00
BUREAU OF YARDS AND DOCKS.							
<i>Salaries, Bureau of Yards and Docks—</i>							
Chief clerk	Mar. 3, 1875	R. S. 18	69 362	416 1	{ 1,800 00		
Draughtsman and clerk	do				1,800 00		
One clerk of class four	Mar. 3, 1875	R. S. 18	26 362	167 1	{ 1,800 00		
Two clerks of class three	do				3,200 00		
One clerk of class two	do				1,400 00		
One clerk of class one	do				1,200 00		
One messenger	do				840 00		
One laborer	do				720 00		
One laborer	Submitted				720 00		
						13,480 00	12,760 00
<i>Contingent Expenses, Bureau of Yards and Docks—</i>							
Stationery, books, plans, drawings, incidental labor, and miscellaneous items	Appropriated	18	362	1		1,800 00	1,800 00
BUREAU OF EQUIPMENT AND RECRUITING.							
<i>Salaries, Bureau of Equipment and Recruiting—</i>							
Chief clerk	Mar. 3, 1875	R. S. 18	69 362	416 1	{ 1,800 00		
One clerk of class four	Mar. 3, 1875	R. S. 18	26 362	167 1	{ 1,800 00		
One clerk of class three	do				1,600 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries, Bureau of Equipment and Recruiting—Continued.</i>							
Two clerks of class two.....	Mar. 3, 1875	R. S. 18	26 362	167 1	\$2,800 00		
Two clerks of class one.....	do.				2,400 00		
One messenger.....	do.				840 00		
One laborer.....	do.				720 00		
						\$11,960 00	\$11,960 00
<i>Contingent Expenses, Bureau of Equipment and Recruiting—</i> Stationery, books, and miscellaneous items.....	Appropriated.	18	362	1		850 00	850 00
BUREAU OF NAVIGATION.							
<i>Salaries, Bureau of Navigation—</i>							
Chief clerk.....	Mar. 3, 1875	R. S. 18	69 362	416 1	1,800 00		
One clerk of class three.....	Mar. 3, 1875	R. S. 18	26 362	167 1	1,600 00		
One clerk of class two.....	do.				1,400 00		
Messenger.....	do.				840 00		
Laborer.....	do.				720 00		
						6,360 00	6,360 00
<i>Contingent Expenses, Bureau of Navigation—</i> Stationery, books, and miscellaneous items.....	Appropriated.	18	362	1		800 00	800 00
BUREAU OF ORDNANCE.							
<i>Salaries, Bureau of Ordnance—</i>							
Chief clerk.....	Mar. 3, 1875	R. S. 18	70 362	416 1	1,800 00		
Draughtsman.....	do.				1,800 00		
One clerk of class three.....	Mar. 3, 1875	R. S. 18	26 362	167 1	1,600 00		
Two clerks of class two.....	do.				2,800 00		
One messenger.....	do.				840 00		
One laborer.....	do.				720 00		
						9,560 00	9,560 00
<i>Contingent Expenses, Bureau of Ordnance—</i> Stationery, books, and miscellaneous items.....	Appropriated.	18	362	1		800 00	800 00
BUREAU OF CONSTRUCTION AND REPAIR.							
<i>Salaries, Bureau of Construction and Repair—</i>							
Chief clerk.....	Mar. 3, 1875	R. S. 18	69 362	416 1	1,800 00		
Draughtsman.....	do.				1,800 00		
One clerk of class four.....	Mar. 3, 1875	R. S. 18	26 362	167 1	1,800 00		
Two clerks of class three.....	do.				3,200 00		
Two clerks of class two.....	do.				2,800 00		
One messenger.....	do.				840 00		
One laborer.....	do.				720 00		
						12,960 00	12,960 00
<i>Contingent Expenses, Bureau of Construction and Repair—</i> Stationery and miscellaneous items.....	Appropriated.	18	363	1		800 00	800 00
BUREAU OF STEAM ENGINEERING.							
<i>Salaries, Bureau of Steam Engineering—</i>							
Chief clerk.....	Mar. 3, 1875	R. S. 18	69 363	416 1	1,800 00		
Draughtsman.....	do.				1,800 00		
One clerk of class two.....	Mar. 3, 1875	R. S. 18	26 363	167 1	1,400 00		
One assistant draughtsman.....	Mar. 3, 1875	R. S. 18	69 363	416 1	1,200 00		
One messenger.....	Mar. 3, 1875	R. S. 18	26 363	167 1	840 00		
One laborer.....	do.				720 00		
						7,760 00	7,760 00
<i>Contingent Expenses, Bureau of Steam Engineering—</i> Stationery and miscellaneous items.....	Appropriated.	18	363	1		1,200 00	1,000 00
BUREAU OF PROVISIONS AND CLOTHING.							
<i>Salaries, Bureau of Provisions and Clothing—</i>							
Chief clerk.....	Mar. 3, 1875	R. S. 18	70 363	416 1	1,800 00		
One clerk of class four.....	Mar. 3, 1875	R. S. 18	26 363	167 1	1,800 00		
Two clerks of class three.....	do.				3,200 00		
One clerk of class three.....	Submitted.				1,600 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries, Bureau of Provisions and Clothing—Continued.</i>							
Two clerks of class two	Mar. 3, 1875	R. S. 18	26 363	167 1	\$2,800 00	\$16,360 00	\$14,760 00
Three clerks of class one	do				3,600 00		
One messenger	do				840 00		
One laborer	do				720 00		
NOTE.—The estimate for an additional clerk of class three, (allowed by act of July 23, 1866,) is submitted on account of the Department's order of July 21, 1873, requiring the accounts of all pay officers to be settled quarterly, instead of at the end of the cruise.							
<i>Contingent Expenses, Bureau of Provisions and Clothing—</i>							
For blank books, stationery, and miscellaneous items	Appropriated.	18	363	1	800 00	800 00	800 00
BUREAU OF MEDICINE AND SURGERY.							
<i>Salaries, Bureau of Medicine and Surgery—</i>							
One chief clerk	Mar. 3, 1875	R. S. 18	70 363	416 1	1,800 00	4,960 00	4,960 00
One clerk of class three	Mar. 3, 1875	R. S. 18	26 363	167 1	1,600 00		
One messenger	do				840 00		
One laborer	do				720 00		
<i>Contingent Expenses, Bureau of Medicine and Surgery—</i>							
Stationery and miscellaneous items	Appropriated.	18	363	1	400 00	400 00	400 00
NAVY DEPARTMENT BUILDING.							
<i>Salaries, Superintendent, &c., Navy Department Building—</i>							
Superintendent	Mar. 3, 1875	R. S. 18	69 363	416 1	250 00	5,290 00	5,290 00
Five watchmen, at \$720 each	Mar. 3, 1875	R. S. 18	26 363	167 1	3,600 00		
Two laborers, at \$720 each	do				1,440 00		
<i>Contingent Expenses, Navy Department Building—</i>							
Incidental labor, fuel, light, and miscellaneous items	Appropriated.	18	363	1	7,000 00	7,000 00	7,000 00
<i>Postage, Navy Department—</i>							
For official postage stamps for the Secretary's office and the bureaus of the Navy Department	Appropriated.	18	362	1	20,000 00	20,000 00	20,000 00
Total Navy Department					163,760 00	163,760 00	161,240 00
NOTE.—The estimate of the Secretary of the Navy for "printing and binding," under section 2, act May 8, 1872, (R. S. 725, sec. 3661,) will be found under title of "Miscellaneous," <i>post</i> .							
DEPARTMENT OF THE INTERIOR.							
OFFICE OF THE SECRETARY.							
<i>Salaries, Office of Secretary of the Interior—</i>							
Secretary	Mar. 3, 1875	R. S. 18	73 363	437 1	8,000 00	\$69,780 00	\$69,780 00
Assistant Secretary	Mar. 3, 1875	R. S. 18	73 363	438 1	3,500 00		
Chief clerk	Mar. 3, 1875	R. S. 18	73 363	440 1	2,500 00		
Ten clerks of class four	Mar. 3, 1875	R. S. 18	26 363	167 1	18,000 00		
Additional to eight clerks of class four	do				1,600 00		
Six clerks of class three	do				9,600 00		
Six clerks of class two	do				8,400 00		
Six clerks of class one	do				7,200 00		
Three copyists, at \$900 each	do				2,700 00		
Three messengers, at \$840 each	do				2,520 00		
Two assistant messengers, at \$720 each	do				1,440 00		
Six laborers, at \$720 each	do				4,320 00		
<i>Salary of Secretary to sign Land Patents—</i>							
Secretary to the President to sign land patents	Mar. 3, 1875	R. S. 18	76 363	450 1	1,500 00	1,500 00	1,500 00
<i>Salaries of Watchmen, Department of the Interior—</i>							
Captain of the watch	Mar. 3, 1875	R. S. 18	73 363	440 1	1,200 00	21,360 00	21,360 00
Twenty-eight watchmen, at \$720 each	do				20,160 00		
<i>Contingent Expenses, Office of Secretary of Interior—</i>							
Stationery, furniture, advertising, telegraphing, and miscellaneous items	Appropriated.	18	363	1	14,000 00	15,500 00	16,500 00
New books and books to complete broken sets, cases, maps, &c., for the library	do				1,500 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Packing Congressional Documents—</i> Expenses of packing and distributing official documents, including salary of superintendent	Appropriated.	18	363	1	-----	\$7,500 00	\$7,500 00
<i>Rent of Rooms for Pension Office—</i> Rent of and fitting up additional rooms for the Pension Office and Bureau of Education	Appropriated.	18	363	1	\$16,000 00		
For rent of J. W. Wright's building, corner of Eighth and G streets northwest, heretofore appropriated directly by Congress	Appropriated.	18	409	1	9,000 00	25,000 00	25,000 00
<i>Fuel, Light, &c., Department of the Interior—</i> Fuel, light, salary of engineer, assistant engineer, six firemen, and repairs of heating apparatus, &c.	Appropriated.	18	363	1	-----	20,000 00	20,000 00
<i>Postage, Department of the Interior—</i> Official postage stamps for Department of the Interior	Appropriated.	18	363	1	-----	129,750 00	125,000 00
NOTE.—The estimate of the Secretary of the Interior for "printing and binding" under section 2, act May 8, 1872, (R. S., 725, sec. 3661,) will be found under the title of "Miscellaneous," post.							
GENERAL LAND OFFICE.							
<i>Salaries, General Land Office—</i>							
Commissioner of General Land Office	Mar. 3, 1875	R. S. 18	75 364	446 1	4,000 00		
Chief clerk	Mar. 3, 1875	R. S. 18	73 364	440 1	2,000 00		
Recorder	Mar. 3, 1875	R. S. 18	75 364	447 1	2,000 00		
One clerk	Mar. 3, 1875	R. S. 18	75 364	447 1	2,000 00		
Three principal clerks of public lands, of private land claims, and of surveys, at \$1,800 each	Mar. 3, 1875	R. S. 18	75, 76 364	448, 9 1	5,400 00		
Six clerks of class four	Mar. 3, 1875	R. S. 18	26 364	167 1	10,800 00		
Twenty-six clerks of class three	do				41,600 00		
Forty-eight clerks of class two	do				67,200 00		
Ninety-six clerks of class one	do				115,200 00		
Draughtsman, at \$1,600, and assistant draughtsman, at \$1,400	Mar. 3, 1875	R. S. 18	26 364	167 1	3,000 00		
Two messengers, at \$840 each, and three assistant messengers, at \$720 each	do				3,840 00		
Two packers, at \$720 each	do				1,440 00		
Nine laborers, at \$720 each	do				6,480 00		
						264,960 00	264,960 00
<i>Contingent Expenses, General Land Office—</i> Stationery, diagrams, parchment paper for land patents, furniture, and repairs of the same; miscellaneous items, including two of the city newspapers, to be filed, bound, and preserved for the use of the office; advertising and telegraphing	Appropriated.	18	364	1	-----	30,000 00	30,000 00
<i>Map of the United States—</i> For 3,600 copies (including paper) of the Map of the United States, prepared in this office	Appropriated.	18	374	1	-----	6,000 00	6,000 00
OFFICE OF COMMISSIONER OF INDIAN AFFAIRS.							
<i>Salaries, Office of Commissioner of Indian Affairs—</i>							
Commissioner	Mar. 3, 1875	R. S. 18	77 364	462 1	3,000 00		
Chief clerk	Mar. 3, 1875	R. S. 18	73 364	440 1	2,000 00		
Five clerks of class four	Mar. 3, 1875	R. S. 18	26 364	167 1	9,000 00		
Eight clerks of class three	do				12,800 00		
One book-keeper	Submitted.				1,800 00		
One stenographer	Mar. 3, 1875	R. S. 18	26 364	167-9 1	1,600 00		
Thirteen clerks of class two	do				18,200 00		
Thirteen clerks of class one	do				15,600 00		
Two clerks of class one	Submitted.				2,400 00		
Six copyists, at \$900 each	Mar. 3, 1875	R. S. 18	26 364	167 1	5,400 00		
Messenger	do				840 00		
Assistant messenger	do				720 00		
One laborer	do				720 00		
Two laborers, at \$720 each	Submitted.				1,440 00		
						75,520 00	69,880 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Contingent Expenses, Office of Commissioner of Indian Affairs—</i> Blank books, binding, stationery, fuel, light, telegraphing, and other miscellaneous items, including two city newspapers, to be filed, bound, and preserved for the use of the office	Appropriated.	18	364	1	.....	\$10,000 00	\$8,000 00
OFFICE OF COMMISSIONER OF PENSIONS.							
<i>Salaries, Office of Commissioner of Pensions—</i>							
Commissioner of Pensions	Mar. 3, 1875	R. S. 18	78 364	470 1	\$3,000 00		
Deputy Commissioner	Mar. 3, 1875	R. S. 18	78 364	472 1	2,500 00		
Chief clerk	Mar. 3, 1875	R. S. 18	73 364	440 1	2,000 00		
Medical referee	Mar. 3, 1875	R. S. 18	935 364	4776 1	2,500 00		
Twenty-six clerks of class four	Mar. 3, 1875	R. S. 18	26 364	167-9 1	46,800 00		
Fifty-two clerks of class three	do.				83,200 00		
Eighty-four clerks of class two	do.				117,600 00		
One hundred and twenty-two clerks of class one	do.				146,400 00		
Twenty-five copyists, at \$900 each	do.				22,500 00		
One messenger	do.				840 00		
Twelve assistant messengers, at \$720 each	do.				8,640 00		
Eight laborers, at \$720 each	do.				5,760 00		
One skilled mechanic	do.				1,200 00		
Two watchmen, at \$720 each	do.				1,440 00		
One engineer	Mar. 3, 1875	R. S. 18	74 364	440 1	1,400 00		
One assistant engineer	do.				1,000 00		
Sixteen clerks and ten copyists, additional, viz:							
Two clerks of class four	Mar. 3, 1875	R. S. 18	26 364	167 1	3,600 00		
Four clerks of class three	Submitted				6,400 00		
Ten clerks of class two	do.				14,000 00		
Ten copyists, at \$900 each	do.				9,000 00		
Ten clerks of class four	Submitted				18,000 00		
Ten clerks of class three	do.				16,000 00		
Four assistant messengers, at \$720	do.				2,880 00		
Two watchmen, at \$720 each	do.				1,440 00		
Four laborers, at \$720 each	do.				2,880 00		
						520,980 00	479,780 00
<i>Contingent Expenses, Office of Commissioner of Pensions—</i> Contingent and miscellaneous expenses of the Pension office, viz: Actual expenses of clerks detailed to investigate suspected attempts at fraud, as provided by law, eighty thousand dollars; stationery, ten thousand dollars; carpets, mats, furniture, awnings, and repairs of the same, five thousand dollars; fuel, gas, engraving and retouching plates, bounty-land warrants, and printing and binding the same, engraving and printing pension certificates, and for other necessary expenses of the office, including two daily newspapers, eighteen thousand dollars	Appropriated.	18	364	1	.....	113,000 00	73,800 00
NOTE.—The Commissioner of Pensions submits an estimate for the continuation of the services of the sixteen clerks and ten copyists provided for during the current fiscal year by act of March 3, 1875. (18 Stats., page 364.) and for an additional force of clerks, messengers, watchmen, and laborers. He has also increased the estimate for actual expenses of clerks detailed to investigate suspected attempts at fraud to eighty thousand dollars; the reasons and necessity for which, together with those for the additional clerical force, will be fully explained in his annual report.							
OFFICE OF COMMISSIONER OF PATENTS.							
<i>Salaries, Office of Commissioner of Patents—</i>							
Commissioner	Mar. 3, 1875	R. S. 18	79 365	476,7 1	4,500 00		
Assistant Commissioner	do.				3,000 00		
Chief clerk	Mar. 3, 1875	R. S. 18	74 365	440 1	2,500 00		
Three examiners-in-chief, at \$3,000 each	Mar. 3, 1875	R. S. 18	79 365	476,7 1	9,000 00		
Examiner of interferences	Mar. 3, 1875	R. S. 18	26 365	167-9 1	2,500 00		
Examiner of trade-marks	do.				2,500 00		
Twenty-four principal examiners, at \$2,500 each	do.				60,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, Office of Commissioner of Patents—Continued.</i>							
Twenty-four first assistant examiners, at \$1,800 each.....	Mar. 3, 1875	R. S. 18	26 365	167-9 440 1	\$43,200 00		
Twenty-four second assistant examiners, at \$1,600 each.....	do				38,400 00		
Twenty-three third assistant examiners, at \$1,400 each.....	do				32,200 00		
One machinist.....	do				1,600 00		
Six clerks of class four, (one of whom shall receive \$200 additional for services as financial clerk).....	do				11,000 00		
Seven clerks of class three.....	do				11,200 00		
Twenty-five clerks of class two.....	do				35,000 00		
Forty clerks of class one.....	do				48,000 00		
Thirty permanent clerks, at \$1,000 each.....	do				30,000 00		
Fifty copyists, at \$900 each.....	do				45,000 00		
Three skilled draughtsmen, at \$1,200 each.....	do				3,600 00		
One messenger and purchasing clerk.....	do				1,000 00		
One skilled laborer.....	do				1,200 00		
Six attendants in model room, at \$1,000 each.....	do				6,000 00		
Six attendants in model room, at \$900 each.....	do				5,400 00		
Fifty laborers, at \$720 each.....	do				36,000 00		
Six laborers, at \$600 each.....	do				3,600 00		
Sixteen folders and pasters, (employed in pasting and folding printed specifications and drawings,) at \$480 each.....	Submitted				7,680 00		
						\$444,080 00	\$436,400 00
NOTE.—The work of photo-lithographing back issues has not been advanced as far as was expected when the estimates for the current year were submitted, consequently it will not be possible to dispense with the services of the third assistant examiners as required by act of March 3, 1875, (18 Stats., 365, 1,) before June 30, 1877.							
<i>Contingent Expenses, Office of Commissioner of Patents—</i>							
Contingent and miscellaneous expenses, viz: Stationery for use of the office, repair of model cases, stationary portfolios for drawings, furniture, repairing, papering, painting, carpets, ice, advertising, books for library, moneys refunded, printing engraved patent heads, international exchanges, plumbing, gas-fitting, extra labor on indexes and abstracts for annual report, fitting up rooms, temporary clerks, laborers, and other contingencies.....	Appropriated.	18	365	1		90,000 00	80,000 00
NOTE.—The increase asked for is necessary for the building of new cases in the model room, and for fitting up rooms.							
<i>Copies of Drawings, Office of Commissioner of Patents—</i>							
Photo-lithographing or otherwise producing copies of drawings of current and back issues for use of the office and for sale, including pay of temporary draughtsmen.....	Appropriated.	18	365	1		40,000 00	100,000 00
NOTE.—When the appropriation of \$100,000 was asked for last year, a large number of drawings in the hands of the photo-lithographer were not estimated for. The amount now asked for will complete this work.							
<i>Photo-lithographing, Office of Commissioner of Patents—</i>							
Photo-lithographing or otherwise producing copies of the weekly issues of drawings, to be attached to patents and copies.....	Appropriated.	18	365	1		40,000 00	40,000 00
<i>Plates for Patent Office Official Gazette—</i>							
Photo-lithographing or otherwise producing plates for the Official Gazette, including pay of employes engaged on the Gazette, and for making similar plates of patents issued between July 1, 1869, and January 1, 1872.....	Appropriated.	18	365	1		40,000 00	40,000 00
<i>Tracings of Drawings, Office of Commissioner of Patents—</i>							
Tracings of drawings, preparatory to photo-lithographing back issues.....	Appropriated.	18	365	1		35,000 00	35,000 00
OFFICE OF COMMISSIONER OF EDUCATION.							
<i>Salaries, Office of Commissioner of Education—</i>							
Commissioner.....	Mar. 3, 1875	R. S. 18	85 365	517 1	3,000 00		
Chief clerk.....	Mar. 3, 1875	R. S. 18	26 365	167-9 440 1	2,000 00		
One clerk of class four.....	do				1,800 00		
One statistician.....	do				1,800 00		
One translator.....	do				1,600 00		
One clerk of class three.....	do				1,600 00		
One clerk of class two.....	do				1,400 00		
Four copyists, at \$900 each.....	do				3,600 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
OFFICE OF SURVEYOR GENERAL OF DAKOTA.							
<i>Salaries, Office of Surveyor General of Dakota—</i>							
Surveyor general.....	Mar. 3, 1875	R. S. 18	390 366	2208 1	\$2,000 00		
Clerks in his office	Appropriated.	R. S. 18	393 366	2226 1	6,300 00		
						\$8,300 00	\$8,300 00
<i>Contingent Expenses, Office of Surveyor General of Dakota—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses.....	Appropriated.	R. S. 18	393 382	2227 1	3,000 00		2,400 00
NOTE.—The organic act of this surveying district provides \$6,300 for clerk-hire and \$1,000 for incidental expenses. These amounts being inadequate, the present estimates are submitted as absolutely required. The increased appropriation for clerk-hire is rendered necessary by the increased appropriations for surveys in the field, of both the public and Indian lands, thus adding greatly to the amount of clerical labor to be performed in preparing duplicate plats and field-notes for the General Land Office and Indian Office, and descriptive notes and triplicate plats for the local land offices. The increased estimate for contingent expenses is made with a view to purchasing a fire-proof safe for the security of the original field-notes and plats of the public surveys in the Territory.							
OFFICE OF SURVEYOR GENERAL OF KANSAS.							
<i>Salaries, Office of Surveyor General of Kansas—</i>							
Surveyor general.....	Mar. 3, 1875	R. S. 18	390 366	2208 1	2,000 00		
Clerks in his office	Appropriated.	R. S. 18	393 366	2226 1	4,100 00		
						6,100 00	8,300 00
<i>Contingent Expenses, Office of Surveyor General of Kansas—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses	Appropriated.	R. S. 18	393 382	2227 1	2,000 00		2,000 00
NOTE.—The estimate for salaries in this surveying district is made for the purpose of completing the office work and arranging and classifying the original surveying archives of the public surveys, preparatory to delivering the same to the authorities of the State of Kansas, in accordance with the requirements of the act of Congress approved June 12, 1840, (5 Stats., page 384.) The organic act provides \$1,000 for contingent expenses, but this amount being inadequate, the present estimate is submitted as absolutely required for the service. (See act March 3, 1875, 18 Stats., page 366.)							
OFFICE OF SURVEYOR GENERAL OF COLORADO.							
<i>Salaries, Office of Surveyor General of Colorado—</i>							
Surveyor general.....	Mar. 3, 1875	R. S. 18	391 366	2210 1	3,000 00		
Clerks in his office	Appropriated.	R. S. 18	393 366	2226 1	8,000 00		
						11,000 00	9,300 00
<i>Contingent Expenses, Office of Surveyor General of Colorado—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses	Appropriated.	R. S. 18	393 382	2227 1	3,000 00		3,000 00
NOTE.—The organic act of this surveying district provides \$4,000 for clerk-hire and \$1,000 for incidental expenses. These amounts are inadequate, and the present estimates are submitted as absolutely required for the service. Extensive surveys of mineral lands in the field, and mapping thereof in the office, call for additional clerical force.							
OFFICE OF SURVEYOR GENERAL OF NEW MEXICO.							
<i>Salaries, Office of Surveyor General of New Mexico—</i>							
Surveyor general.....	Mar. 3, 1875	R. S. 18	391 366	2210 1	3,000 00		
Clerks in his office	Appropriated.	R. S. 18	393 366	2226 1	6,300 00		
						9,300 00	9,300 00
<i>Contingent Expenses, Office of Surveyor General of New Mexico—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses	Appropriated.	R. S. 18	393 382	2227 1	4,500 00		2,500 00
NOTE.—The organic act of this surveying district provides \$4,000 for clerk-hire and \$1,000 for contingent expenses. These amounts being inadequate, the present estimates are submitted as absolutely required for the service; \$2,000 of the \$4,500 is for a fire-proof safe and new furniture, to take the place of that provided about twenty years ago, now in a very dilapidated condition.							
OFFICE OF SURVEYOR GENERAL OF CALIFORNIA.							
<i>Salaries, Office of Surveyor General of California—</i>							
Surveyor general.....	Mar. 3, 1875	R. S. 18	391 366	2210 1	3,000 00		
Clerks in his office	Appropriated.	R. S. 18	393 366	2226 1	20,000 00		
						23,000 00	23,000 00

General object, (title of appropriation,) and details and explanations.

[illegible]

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
OFFICE OF SURVEYOR GENERAL OF NEBRASKA AND IOWA.							
<i>Salaries, Office of Surveyor General of Nebraska and Iowa—</i>							
Surveyor general	Mar. 3, 1875	R. S. 390	2208	}	\$2,000 00	\$9,500 00	\$8,300 00
Clerks in his office		18 366	1				
		R. S. 393	2226	}	7,500 00		
	Appropriated.	18 366	1				
<i>Contingent Expenses, Office of Surveyor General of Nebraska and Iowa—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses		R. S. 393	2227	}	3,000 00	3,000 00	3,000 00
	Appropriated	18 382	1				
NOTE.—The organic act of this surveying district provides \$6,300 for clerk-hire and \$1,000 for contingent expenses. These amounts having proved inadequate, the present estimates are submitted as absolutely required for the service. A considerable portion of the sum estimated for contingent expenses is needed for binding the original field-notes and plats of the public surveys.							
OFFICE OF SURVEYOR GENERAL OF MONTANA.							
<i>Salaries, Office of Surveyor General of Montana—</i>							
Surveyor general	Mar. 3, 1875	R. S. 391	2210	}	3,000 00	9,200 00	8,000 00
Clerks in his office		18 366	1				
		R. S. 393	2226	}	6,200 00		
	Appropriated.	18 366	1				
<i>Contingent Expenses, Office of Surveyor General of Montana—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses		R. S. 393	2227	}	4,000 00	2,500 00	2,500 00
	Appropriated.	18 382	1				
NOTE.—The organic act of this surveying district provides \$4,000 for clerk-hire and \$1,000 for contingent expenses. These amounts being inadequate, the present estimates are submitted as absolutely required for the service. A large portion of the amount estimated for contingent expenses is required for binding the original field-notes and plats of the public surveys; also for additional furniture to accommodate increasing public archives, which are in a dilapidated condition for want of proper fixtures to protect them from destruction.							
OFFICE OF SURVEYOR GENERAL OF UTAH.							
<i>Salaries, Office of Surveyor General of Utah—</i>							
Surveyor general	Mar. 3, 1875	R. S. 391	2210	}	3,000 00	8,700 00	7,700 00
Clerks in his office		18 366	1				
		R. S. 393	2226	}	5,700 00		
	Appropriated.	18 366	1				
<i>Contingent Expenses, Office of Surveyor General of Utah—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses		R. S. 393	2227	}	2,500 00	2,000 00	2,000 00
	Appropriated.	18 382	1				
NOTE.—The organic act of this surveying district provides \$4,000 for clerk-hire and \$1,000 for contingent expenses. These amounts having proved inadequate, the present estimates are submitted as absolutely required for the service.							
OFFICE OF SURVEYOR GENERAL OF WYOMING.							
<i>Salaries, Office of Surveyor General of Wyoming—</i>							
Surveyor general	Mar. 3, 1875	R. S. 391	2210	}	3,000 00	9,700 00	9,700 00
Clerks in his office		18 366	1				
		R. S. 393	2226	}	6,700 00		
	Appropriated.	18 366	1				
<i>Contingent Expenses, Office of Surveyor General of Wyoming—</i>							
Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses		R. S. 393	2227	}	2,500 00	2,500 00	2,500 00
	Appropriated.	18 382	1				
NOTE.—The organic act of this surveying district provides \$4,000 for clerk-hire and \$1,000 for contingent expenses. These amounts being inadequate, the present estimates are submitted as absolutely required for the service.							
OFFICE OF SURVEYOR GENERAL OF ARIZONA.							
<i>Salaries, Office of Surveyor General of Arizona—</i>							
Surveyor general	Mar. 3, 1875	R. S. 391	2210	}	3,000 00	9,500 00	7,000 00
Clerks in his office		18 366	1				
		R. S. 393	2226	}	6,500 00		
	Appropriated.	18 366	1				

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Contingent Expenses, Office of Surveyor General of Arizona—</i> Rent of office for surveyor general, fuel, books, stationery, and other incidental expenses.....	Appropriated.	R. S. 18	393 382	2226 1	}	\$2,500 00	\$2,500 00
NOTE.—The organic act of this surveying district provides \$1,000 for contingent expenses. This amount having proved inadequate, the present estimate is submitted as absolutely required for the service. Of the amount estimated for clerk-hire \$2,500 is required for the compensation of a competent clerk, well versed in the English and Spanish languages, to assist in the duties of examining and reporting upon titles to private land claims imposed by the proviso to the appropriation act of July 15, 1870, (Statutes, vol. 16, page 304.)							
RECORDER OF LAND TITLES IN MISSOURI.							
<i>Salary, Recorder of Land Titles in Missouri—</i> Recorder of land titles in Missouri.....	Mar. 2, 1805 Mar. 3, 1875	2 18	326 366	3 1	}	500 00	500 00
COLLECTING THE REVENUE FROM PUBLIC LANDS.							
<i>Salaries and Commissions of Registers and Receivers—</i> (See detailed statement below).....	Mar. 3, 1875	R. S. 18	394 384	2237, 8 1	}	531,700 00	525,700 00
<i>Contingent Expenses of Land Offices—</i> (See detailed statement below).....	Appropriated.	18	384	1	.....	58,540 00	57,940 00
NOTE.—The estimate under this head is for a larger amount than that appropriated for the fiscal year ending June 30, 1876, owing to the opening of an additional land office.							
		<i>Salaries and commissions.</i>	<i>Incidental expenses.</i>	<i>Total.</i>			
Ohio—Chillicothe		\$2,000	\$550	\$2,550			
Indiana—Indianapolis...		1,500	300	1,800			
Illinois—Springfield		1,200	600	1,800			
Missouri—							
Boonville		6,000	750	} 19,950			
Ironton		6,000	600				
Springfield		6,000	600				
Alabama—							
Mobile		5,000	500	} 19,100			
Huntsville		6,000	600				
Montgomery		6,000	1,000				
Mississippi—Jackson		6,000	600	6,600			
Louisiana—							
New Orleans		6,000	600	} 16,800			
Natchitoches		4,000	600				
Monroe		5,000	600				
Michigan—							
Detroit		5,000	800	} 31,200			
East Saginaw		6,000	600				
Ionia		5,000	600				
Marquette		6,000	600				
Traverse City		6,000	600				
Arkansas—							
Dardanelle		6,000	600	} 26,840			
Little Rock		6,000	900				
Camden		6,000	740				
Harrison		6,000	600				
Florida—Gainesville.....		6,000	600	6,600			
Iowa—							
Fort Des Moines		6,000	600	} 13,200			
Sioux City		6,000	600				
Nebraska—							
Norfolk		4,000	400	} 41,800			
Beatrice		6,000	600				
Lincoln		6,000	600				
Dakota City		4,000	400				
Grand Island		6,000	600				
Bloomington		6,000	600				
North Platte		6,000	600				

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Collecting the Revenue from Public Lands—Continued.</i>							
Colorado Territory—							
Pueblo					\$6,000	\$600	
Denver City					6,000	600	
Fair Play					5,000	500	
Del Norte					6,000	600	
Central City					4,000	400	
						\$29,700	
Utah Ter.—Salt Lake City					6,000	600	6,600
Wyoming Ter.—Cheyenne					4,000	400	4,400
Wisconsin—							
Menasha					6,000	600	
Falls St. Croix					6,000	600	
Wausau					6,000	600	
La Crosse					6,000	600	
Bayfield					6,000	600	
Eau Claire					6,000	600	
						39,600	
California—							
San Francisco					6,000	900	
Marysville					6,000	900	
Humboldt					6,000	900	
Stockton					6,000	900	
Visalia					6,000	600	
Sacramento					6,000	900	
Shasta					6,000	900	
Los Angeles					6,000	600	
Susanville					6,000	900	
Independence					6,000	600	
						68,100	
Nevada—							
Carson City					5,000	500	
Eureka					5,000	500	
Pioche					3,000	300	
Elko					6,000	600	
						20,900	
Washington Territory—							
Olympia					6,000	600	
Vancouver					6,000	600	
Walla Walla					6,000	600	
						19,800	
Minnesota—							
Taylor's Falls					6,000	600	
Saint Cloud					6,000	600	
Duluth					6,000	600	
Alexandria					6,000	600	
Worthington					6,000	600	
New Ulm					6,000	600	
Litchfield					6,000	600	
Redwood Falls					6,000	600	
Detroit					6,000	600	
						59,400	
Oregon—							
Oregon City					6,000	600	
Roseburg					6,000	600	
Le Grand					6,000	600	
Linkville					6,000	600	
Dalles					6,000	600	
						33,000	
Kansas—							
Topeka					6,000	900	
Salina					6,000	600	
Independence					6,000	600	
Wichita					6,000	600	
Concordia					6,000	600	
Kirwin					6,000	600	
Larned					6,000	600	
Hays City					6,000	600	
						53,100	
New Mexico Territory—							
Santa Fé					4,000	400	
La Mesilla					6,000	600	
						11,000	
Dakota Territory—							
Sioux Falls					6,000	600	
Springfield					4,000	400	
Fargo					6,000	600	
Yankton					6,000	600	
Bismarek					6,000	600	
						30,800	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.				Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
					Vol. or R. S.	Page.	Sec.			
<i>Collecting the Revenue from Public Lands—Continued.</i>										
	<i>Salaries and commissions.</i>	<i>Incidental expenses.</i>	<i>Total.</i>							
Idaho Territory—										
Boise City	\$3,000	\$300	} \$5,500							
Lewiston	2,000	200								
Montana Territory—										
Helena	5,000	500	} 12,100							
Bozeman	6,000	600								
Arizona Territory—										
Prescott	3,000	400	} 8,000							
Florence	4,000	600								
	531,700	58,540	590,240							
<i>Expenses of Depositing Public Moneys—</i>										
Expenses of depositing public moneys, as required by the act of March 3, 1849, entitled "An act requiring all moneys receivable from customs, and from all other sources, to be paid immediately into the Treasury, without abatement or reduction, and for other purposes"				Mar. 3, 1875	R. S. 18	717 384	3617 1	}	\$13,000 00	\$13,000 00
<i>Depredations on Public Timber—</i>										
To meet the expenses of suppressing depredations upon the timber on the public lands				Appropriated.	18	384	1	.....	5,000 00	5,000 00
Total Public Lands									824,840 00	797,540 00
INTERIOR MISCELLANEOUS.										
GOVERNMENT HOSPITAL FOR THE INSANE.										
<i>Current Expenses, Government Hospital for the Insane—</i>										
Support, clothing, and medical and moral treatment of the insane of the Army, Navy, Marine Corps, and revenue-cutter service, and of all persons who have become insane since their entrance into the military or naval service of the United States, and who are indigent, and of the indigent insane of the District of Columbia, in the Government Hospital for the Insane				Appropriated.	18	386	4838, 4858 1	}	\$155,895 00	\$150,171 00
NOTE.—The estimate for repairs and improvements of buildings and grounds, Government Hospital for the Insane, will be found under the title of "Public Works," <i>post</i> . For explanation of this estimate, see Appendix, marked "B."										
COLUMBIA HOSPITAL FOR WOMEN AND LYING-IN ASYLUM.										
<i>Current Expenses, Columbia Hospital for Women and Lying-in Asylum—</i>										
Subsistence, stores, drugs, medicines, and general repairs ..	Appropriated.	18	386	1				\$20,000 00		
Salary of surgeon-in-chief	do.							2,000 00		
Assistant surgeon	do.							1,000 00		
Apothecary	do.							800 00		
Matron	do.							500 00		
									24,300 00	24,300 00
NOTE.—The estimate submitted for the improvement and care of buildings and grounds, will be found under the title of "Public Works," <i>post</i> .										
COLUMBIA INSTITUTION FOR THE DEAF AND DUMB.										
<i>Current Expenses, Columbia Institution for the Deaf and Dumb—</i>										
Support of the institution, including salaries and incidental expenses, and \$500 for books and illustrative apparatus	Appropriated.	18	386	1				}	48,000 00	48,000 00
NOTE.—The estimate submitted for continuing the erection, furnishing, and fitting up of the buildings of the institution, and for the improvement and care of the grounds, will be found under the title of "Public Works," <i>post</i> . (See Appendix, marked "C.")										
NATIONAL SOLDIERS' AND SAILORS' ORPHANS' HOME.										
<i>Current Expenses, National Soldiers' and Sailors' Orphans' Home—</i>										
Support of the Home, including salaries and incidental expenses	Appropriated.	18	386	1					10,000 00	10,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
FREEDMEN'S HOSPITAL AND ASYLUM.							
<i>Support of Freedmen's Hospital and Asylum at Washington, D. C.—</i>							
Subsistence.....	Appropriated.	18	386	1	\$20,000 00	\$46,600 00	\$45,000 00
Salaries and compensation.....	do.				11,500 00		
Fuel and light.....	do.				4,000 00		
*Clothing.....	do.				3,500 00		
Rent of hospital buildings.....	do.				4,000 00		
Medicines and medical supplies.....	do.				2,000 00		
Miscellaneous expenses.....	do.				1,000 00		
Forage and transportation.....	do.				600 00		
SMITHSONIAN INSTITUTION.							
<i>Preservation of Collections, Smithsonian Institution—</i>							
Preservation of the collections of the surveying and exploring expeditions of the Government.....	Appropriated.	18	387	1	-----	25,000 00	20,000 00
BUREAU OF EDUCATION.							
<i>International Exhibition of 1876—</i>							
To complete the exhibit of education at the International Centennial Exhibition at Philadelphia, in 1876.....	Submitted				-----	34,000 00	
Total Interior Miscellaneous.....					-----	343,795 00	297,471 00
Total Interior Department.....					-----	3,216,255 00	3,081,041 00
POST OFFICE DEPARTMENT.							
OFFICE OF THE POSTMASTER GENERAL.							
<i>Salaries, Post Office Department—</i>							
Postmaster General.....	Mar. 3, 1875	R. S. 18	64 366	388 1	8,000 00		
Three Assistant Postmasters General, at \$3,500 each....	Mar. 3, 1875	R. S. 18	64 366	389 1	10,500 00		
Additional, \$500 each, for three Assistant Postmasters General.....	Submitted				1,500 00		
Superintendent of money-order system.....	Mar. 3, 1875	R. S. 18	65 366	393 1	3,000 00		
Additional for superintendent of money-order system.....	Submitted				1,000 00		
Superintendent of foreign mails.....	Mar. 3, 1875	R. S. 18	65 366	393 1	3,000 00		
Topographer.....	do.				2,500 00		
Chief of division of mail depredations.....	do.				2,000 00		
Chief of division of dead letters.....	do.				2,500 00		
Chief of division of postal stamps.....	June 20, 1874	18	106	1	2,500 00		
Chief of division of free delivery.....	Mar. 3, 1875	18	367	1	2,500 00		
Superintendent of Post Office building and disbursing officer.....	Submitted				2,500 00		
Additional for superintendent of Post Office building and disbursing officer.....	Mar. 3, 1875	R. S. 18	65 367	393 1	2,300 00		
Chief clerk to Postmaster General.....	Submitted				500 00		
Additional for chief clerk to Postmaster General.....	Mar. 3, 1875	R. S. 18	65 367	393 1	2,200 00		
One chief clerk to each Assistant Postmaster General, at \$2,000 each.....	Submitted				300 00		
Additional, \$500 each, for chief clerks to Assistant Postmasters General.....	Mar. 3, 1875	R. S. 18	65 367	393 1	6,000 00		
One chief clerk in money-order office.....	Submitted				1,500 00		
One chief clerk in office of foreign mails.....	Mar. 3, 1875	R. S. 18	65 367	393 1	2,000 00		
Superintendent of blank agency.....	do.				2,000 00		
Assistant superintendent of blank agency.....	do.				1,800 00		
Four assistants, at \$1,200 each.....	do.				1,600 00		
Additional for two assistants, \$200 each.....	do.				4,800 00		
Two assistants, at \$900 each.....	Submitted				400 00		
One stenographer.....	June 20, 1874	18	106	1	1,800 00		
Additional for stenographer.....	Mar. 3, 1875	18	367	1	1,800 00		
Seventeen clerks of class four.....	Mar. 3, 1875	R. S. 18	65 367	393 1	1,800 00		
Two clerks of class four, additional, for First Assistant Postmaster General.....	Submitted				400 00		
One clerk of class four, additional, for Second Assistant Postmaster General.....	Mar. 3, 1875	R. S. 18	26 367	167 1	30,600 00		
Sixty-eight clerks of class three.....	Submitted				3,600 00		
	do.				1,800 00		
	Mar. 3, 1875	R. S. 18	26 367	167 1	108,800 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, Post Office Department—Continued.</i>							
Four clerks of class three, additional, for Second Assistant Postmaster General	Submitted				\$6,400 00		
One clerk of class three, additional, for superintendent and disbursing officer	do				1,600 00		
Fifty-two clerks of class two	Mar. 3, 1875	R. S. 18	26 367	167 1	72,800 00		
Seventy clerks of class one	do				84,000 00		
Fifty-seven female clerks, at \$900 each	do				51,300 00		
One messenger for Postmaster General	Mar. 3, 1875	R. S. 18	65 367	393 1	900 00		
One messenger to each Assistant Postmaster General, at \$840 each	Mar. 3, 1875	R. S. 18	26 367	167 1	2,520 00		
Five assistant messengers, at \$720 each	Mar. 3, 1875	R. S. 18	65 367	393 1	3,600 00		
Six assistant messengers, at \$720 each	Submitted				4,320 00		
Captain of the watch	Mar. 3, 1875	R. S. 18	26 367	167-9 393 1	1,000 00		
Nine watchmen, at \$720 each	do				6,480 00		
Five watchmen, at \$720 each	Submitted				3,600 00		
Twenty-seven laborers, at \$720 each	Mar. 3, 1875	R. S. 18	26 367	167 1	19,440 00		
Eight laborers, at \$720 each	Submitted				5,760 00		
One engineer	June 20, 1874	R. S. 18	26 106	167-9 393 1	1,600 00		
	Mar. 3, 1875	R. S. 18	367	1			
One assistant engineer	do				1,000 00		
One carpenter	do				1,252 00		
One assistant carpenter	do				1,000 00		
One fireman and blacksmith	do				900 00		
One fireman and steam-fitter	do				900 00		
One fireman	do				720 00		
Three female laborers, at \$480 each	do				1,440 00		
One female laborer	Submitted				480 00		
Temporary clerks	Mar. 3, 1875	R. S. 18	26 367	169 1	10,000 00		
NOTE.—The Postmaster General submits a reduction of \$500 in the salary of the chief of division of mail depredations; also a reduction of one clerk of class two and seven clerks of class one.						\$496,212 00	\$470,852 00
<i>Contingent Expenses, Post Office Department—</i>							
Stationery	Appropriated	18	367	1	10,000 00		
Fuel for General Post Office building, including Auditor's offices	do				7,400 00		
Gas	do				12,000 00		
Plumbing and gas-fixtures	do				5,000 00		
Telegraphing	do				4,000 00		
Painting	do				10,000 00		
Carpets	do				7,500 00		
Furniture	do				12,000 00		
Keeping horses, repair of carriages, wagons, and harness	do				1,200 00		
Hardware	do				2,000 00		
Rent of house No, 915 E street, northwest, for topographer	do				1,800 00		
Miscellaneous items	do				12,000 00		
						84,900 00	53,600 00
Total Post Office Department						581,112 00	524,452 00
DEPARTMENT OF JUSTICE.							
OFFICE OF THE ATTORNEY GENERAL.							
<i>Salaries, Department of Justice—</i>							
Attorney General	Mar. 3, 1875	R. S. 18	58 369	346 1	8,000 00		
Solicitor General	Mar. 3, 1875	R. S. 18	58 369	347 1	7,500 00		
Three Assistant Attorneys General, at \$5,000 each	Mar. 3, 1875	R. S. 18	58 369	348 1	15,000 00		
One Assistant Attorney General of Post Office Department	Mar. 3, 1875	R. S. 18	64 369	390 1	4,000 00		
Solicitor of Internal Revenue	Mar. 3, 1875	R. S. 18	58 369	349 1	5,000 00		
Naval Solicitor	do				3,500 00		
Examiner of claims	do				3,500 00		
Law clerk, acting as examiner of titles	Mar. 3, 1875	R. S. 18	59 369	351 1	3,000 00		
Chief clerk	do				2,200 00		
additional	Submitted				300 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries, Department of Justice—Continued.</i>							
Additional for disbursing clerk.....	Mar. 3, 1875	R. S. 18	59 369	351 1	\$200 00		
Stenographic clerk.....	do.				2,000 00		
Two clerks, at \$2,000 each.....	Mar. 3, 1875	18	369	1	4,000 00		
Five clerks of class four.....	Mar. 3, 1875	R. S. 18	26 369	167 1	9,000 00		
One clerk of class two.....	do.				1,400 00		
Five clerks of class one.....	Submitted				6,000 00		
One telegraph operator.....	Mar. 3, 1875	R. S. 18	26 369	167, 169 1	1,000 00		
One messenger.....	do.				840 00		
Two assistant messengers, at \$720 each.....	do.				1,440 00		
Two laborers, at \$720 each.....	do.				1,440 00		
Two watchmen, at \$720 each.....	do.				1,440 00		
Solicitor of the Treasury.....	Mar. 3, 1875	R. S. 18	58 370	349 1	4,500 00		
Assistant Solicitor of the Treasury.....	do.				3,000 00		
Chief clerk.....	Mar. 3, 1875	R. S. 18	59 370	351 1	2,000 00		
Four clerks of class four.....	Mar. 3, 1875	R. S. 18	26 370	167 1	7,200 00		
Two clerks of class three.....	do.				3,200 00		
Three clerks of class two.....	do.				4,200 00		
Two clerks of class one.....	do.				2,400 00		
One messenger.....	do.				840 00		
One laborer.....	do.				720 00		
NOTE.—Five clerks of class one, and three hundred dollars (\$300) additional for the chief clerk, are submitted in lieu of one clerk of class four, and five copyists (at \$900 each) in the office of the Attorney General, provided for by the act of March 3, 1875.						\$108,820 00	\$108,820 00
<i>Contingent Expenses, Department of Justice—</i>							
Furniture and repairs.....	Appropriated.	18	369	1	1,500 00		
Care of and subsistence of horses.....	do.				1,400 00		
Repairs to carriages and harness.....	do.				600 00		
Law and miscellaneous books for library of the Department.....	do.				3,000 00		
The same for the office of the Solicitor of the Treasury.....	do.				1,000 00		
Stationery.....	do.				2,500 00		
Miscellaneous expenditures, such as telegraphing, fuel, labor, light, and other necessities.....	do.				6,000 00		
						16,000 00	15,500 00
<i>Rent of Building, Department of Justice—</i>							
Rent of four floors of the building occupied by the Department of Justice.....	Appropriated.	18	370	1		17,000 00	14,000 00
WARDEN OF THE JAIL.							
<i>Salary of Warden of Jail, District of Columbia—</i>							
Salary of the warden of the jail in the District of Columbia, (provided that hereafter the warden, guards, and other employes in the jail shall be appointed by the Attorney General).....	Mar. 3, 1875	R. S., Pt. 2 18	124 369	1081 1		2,000 00	2,000 00
MISCELLANEOUS.							
<i>Defending Suits and Claims for Seizure of Captured or Abandoned Property—</i>							
Payment of the necessary expenses incurred in defending suits against the Secretary of the Treasury or his agents for the seizure of captured or abandoned property, and for the examination of witnesses in claims against the United States pending in any Department, and for the defence of the United States in the Court of Claims, to be expended under the direction of the Attorney General.....	Appropriated.	18	373	1		30,000 00	50,000 00
<i>Prosecution and Collection of Claims—</i>							
Expenses to be incurred in the prosecution and collection of claims due to the United States, to be expended under the direction of the Attorney General.....	Appropriated.	18	373	1		5,000 00	5,000 00
<i>Defending Claims under Convention with Mexico—</i>							
Defraying the expenses of defending claims under the convention with Mexico of July 4, 1868, to be expended under the direction of the Attorney General.....	Appropriated.	18	373	1		5,000 00	5,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Punishing Violations of Intercourse Acts and Frauds—</i>							
Detecting and punishing violations of the intercourse acts of Congress and frauds committed in the Indian service, the same to be expended by the Attorney General in allowing such increased fees and compensation of witnesses, jurors, and marshals, and in defraying such other expenses as may be necessary for this purpose	Appropriated.	18	373	1	.....	\$8,000 00	\$8,000 00
<i>Prosecution of Crimes—</i>							
Detection and prosecution of crimes against the United States, to be disbursed under the direction of the Attorney General	Appropriated.	18	373	1	.....	30,000 00	25,000 00
<i>Postage, Department of Justice—</i>							
Purchase of postage stamps	Appropriated.	18	370	1	.....	5,000 00	10,000 00
REFORM SCHOOL.							
<i>Current Expenses, Reform School of the District of Columbia—</i>							
Superintendent	July 25, 1866	14	233	4	} \$1,500 00		
	May 15, 1872	17	119	6			
	Mar. 3, 1875	18	385	1			
Two assistant superintendents, at \$750 each	Same acts				1,500 00		
Matron	do				600 00		
Two teachers, at \$600 each	do				1,200 00		
Medicine and medical attendance	do				500 00		
Gardener	do				720 00		
Superintendent of workshops	do				600 00		
Laborer	do				144 00		
Seamstress, laundress, and servants	do				540 00		
Fuel, clothing, and incidental expenses	do				2,696 00		
						10,000 00	10,000 00
METROPOLITAN POLICE.							
<i>Salaries and Expenses, Metropolitan Police—</i>							
Five commissioners, at \$250 each	Mar. 3, 1875	R. S. 18	39 322, 438	1	} 1,250 00		
Treasurer	do					600 00	
Major and superintendent	do					1,740 00	
Captain and inspector	do					1,200 00	
Secretary	do					1,200 00	
Property clerk	do					1,200 00	
Two clerks, at \$1,000 each	do					2,000 00	
One clerk	do					1,000 00	
Three police surgeons, at \$300 each	do					900 00	
Six detectives, at \$1,080 each	do					6,480 00	
Ten lieutenants, at \$840 each	do					8,400 00	
Twenty sergeants, at \$780 each	do					15,600 00	
Two hundred privates, at \$720 each	do					144,000 00	
Two laborers, at \$60 and \$35, respectively, per month	do					1,140 00	
Superintendent of police telegraph	do					1,000 00	
Attorney	do					500 00	
Miscellaneous items, expenses of conveying prisoners, repairs, &c.	Appropriated.	18	385	1	3,000 00		
Mounting twenty-one men	do				7,560 00		
Shields, belts, buttons, batons, &c.	do				1,000 00		
Rent, fuel, gas, stationery, and furniture	do				4,500 00		
Repairs of telegraph	do				1,000 00		
						205,270 00	205,270 00
NOTE.—The estimate for "printing and binding," under section 2, act of May 8, 1872, (R. S. 725, sec. 3661,) submitted by the Attorney General, will be found under the title of "Miscellaneous," <i>post</i> .							
Total Department of Justice						442,090 00	458,590 00
DEPARTMENT OF AGRICULTURE.							
OFFICE OF COMMISSIONER.							
<i>Salaries, Department of Agriculture—</i>							
Commissioner	Mar. 3, 1875	R. S. 18	86 521	1	} 3,000 00		
Chief clerk	Mar. 3, 1875	R. S. 18	86 522, 3	1		2,000 00	
Entomologist	do					2,000 00	
Chemist	do					2,000 00	
Superintendent of experimental garden and grounds	do					2,000 00	
Statistician	do					2,000 00	
Disbursing clerk	do					1,800 00	
Additional for superintending Department building	Submitted				200 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Salaries, Department of Agriculture—Continued.</i>							
Superintendent of seed room.....	Mar. 3, 1875	R. S. 18	86 367	522,'3 1	\$1,800 00		
Librarian.....	do.				1,800 00		
Botanist.....	do.				1,800 00		
Microscopist.....	do.				1,800 00		
Assistant chemist.....	do.				1,600 00		
Four clerks of class four.....	do.				7,200 00		
Five clerks of class three.....	do.				8,000 00		
Six clerks of class two.....	do.				8,400 00		
Seven clerks of class one.....	do.				8,400 00		
Tabulators for statistical division:							
Two clerks of class four.....	Submitted				3,600 00		
Three clerks of class three.....	do.				4,800 00		
Two clerks of class two.....	do.				2,800 00		
Two clerks of class one.....	do.				2,400 00		
Engineer.....	Mar. 3, 1875	R. S. 18	86 367	522,'3 1	1,400 00		
Superintendent of folding room.....	do.				1,200 00		
Assistant superintendent of experimental garden and grounds.....	do.				1,200 00		
Assistant superintendent of seed room.....	do.				1,200 00		
Two stamp clerks.....	Submitted				2,000 00		
Two attendants in museum, at \$1,000 each.....	Mar. 3, 1875	R. S. 18	86 367	522,'3 1	2,000 00		
One carpenter.....	do.				960 00		
Three copyists, at \$900 each.....	do.				2,700 00		
Chief messenger.....	do.				850 00		
Two assistant messengers, at \$720 each.....	do.				1,440 00		
Three watchmen, at \$720 each.....	do.				2,160 00		
Nine laborers, at \$720 each.....	do.				6,480 00		
						\$92,990 00	\$77,180 00
NOTE.—The clerks in the statistical division have heretofore been separated from the regular roll of clerks, and the want of sufficient force in that division, where work has so largely increased in the last few years, renders necessary the additional force of clerks asked for.							
MISCELLANEOUS.							
<i>Collecting Agricultural Statistics—</i>							
Collecting agricultural statistics, and compiling and writing matter for monthly, annual, and special reports.....	Mar. 3, 1875	R. S. 18	87 368	526 1		10,000 00	15,000 00
<i>Purchase and Distribution of Valuable Seeds—</i>							
Purchase and distribution of valuable seeds and plants.....	Mar. 3, 1875	R. S. 18	87 368	527 1	70,000 00		
Expenses in putting up the same; labor, bagging, paper, twine, gum, and other necessary materials.....	do.				5,500 00		
						75,500 00	65,000 00
<i>Experimental Garden, Department of Agriculture—</i>							
Labor, flower-pots, repairs to greenhouses, and purchasing new plants and seeds.....	Appropriated.	18	368	1		10,000 00	8,000 00
<i>Museum and Herbarium, Department of Agriculture—</i>							
Collecting and modelling specimens of fruits and vegetables, and purchasing, collecting, and preparing additional specimens for the museum.....	Appropriated.	18	368	1	4,000 00		
Purchasing, collecting, and preparing specimens for herbarium.....	do.				1,000 00		
						5,000 00	2,000 00
<i>Furniture, Cases, and Repairs, Department of Agriculture—</i>							
Cases for museum.....	Appropriated.	18	107	1	1,200 00		
Repairs of building, heating apparatus, furniture, water and gas-pipes, and new furniture.....	Appropriated.	18	368	1	3,300 00		
Cases for herbarium.....	Submitted.				2,000 00		
Gasometer, and necessary pipes for the same.....	do.				1,200 00		
						7,700 00	3,300 00
<i>Library, Department of Agriculture—</i>							
Entomological works of reference.....	Appropriated.	18	368	1	250 00		
Botanical works of reference.....	do.				250 00		
Works on mineralogy, chemistry, and charts.....	do.				500 00		
Miscellaneous agricultural periodicals.....	do.				250 00		
For the completion of sets.....	do.				250 00		
Current agricultural works for library.....	do.				250 00		
						1,750 00	1,250 00
<i>Laboratory, Department of Agriculture—</i>							
Chemicals and apparatus for use of the chemical division.....	Appropriated.	18	368	1	1,000 00		
Material for the use of the microscopist.....	do.				500 00		
						1,500 00	1,300 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Contingent Expenses, Department of Agriculture—</i>							
Stationery	Appropriated.	18	368	1	\$2,500 00		
Freight and charges	do				3,000 00		
Fuel	do				2,200 00		
Light	do				600 00		
Keeping horses and repairing harness, carriage and freight-wagons	do				1,500 00		
Paper, twine, and gum for folding room	do				500 00		
Incidental and miscellaneous expenses, viz: Advertising, telegraphing, dry goods, soap, brushes, brooms, mats, oils, glass, paints, lumber, hardware, ice, expenses in attending agricultural fairs, purchasing supplies, care of stationery, and other necessary items	do				5,000 00	\$15,300 00	\$12,100 00
<i>Postage, Department of Agriculture—</i>							
For postage on seeds, reports, circulars, and letters	Appropriated.	18	368	1		10,000 00	52,000 00
NOTE.—The estimate for "printing and binding," under section 2 of act May 8, 1872, (R. S. 725, sec. 3661,) submitted by the Commissioner of Agriculture, will be found under the title of "Miscellaneous," post.							
Total Department of Agriculture						229,740 00	237,130 00
Total Executive						18,717,045 40	18,160,906 30
JUDICIAL.							
SUPREME COURT OF THE UNITED STATES.							
<i>Salaries, Justices, &c., Supreme Court—</i>							
Chief Justice	Mar. 3, 1875	R. S. 18	124 368	673-6 1	10,500 00		
Eight associate justices, at \$10,000 each	do				80,000 00		
Nine circuit judges, to reside in circuit, at \$6,000 each ..	Mar. 3, 1875	R. S. 18	106 369	607 1	54,000 00		
Reporter of the decisions of the Supreme Court	Mar. 3, 1875	R. S. 18	125 369	682 1	2,500 00		
Marshal of the Supreme Court	Mar. 3, 1875	R. S. 18	125 369	680 1	3,500 00		
						\$150,500 00	\$150,500 00
DISTRICT COURTS OF THE UNITED STATES.							
<i>Salaries, District Judges—</i>							
Fifty-two district judges of the United States, viz:							
Alabama	Mar. 3, 1875	R. S. 18	92 369	554 1	3,500 00		
Arkansas, eastern district	do				3,500 00		
Arkansas, western district	do				3,500 00		
Connecticut	do				3,500 00		
California	do				5,000 00		
Delaware	do				3,500 00		
Florida, northern district	do				3,500 00		
Florida, southern district	do				3,500 00		
Georgia	do				3,500 00		
Indiana	do				3,500 00		
Illinois, northern district	do				4,000 00		
Illinois, southern district	do				3,500 00		
Iowa	do				3,500 00		
Kentucky	do				3,500 00		
Kansas	do				3,500 00		
Louisiana	do				4,500 00		
Maine	do				3,500 00		
Massachusetts	do				4,000 00		
Maryland	do				4,000 00		
Missouri, eastern district	do				3,500 00		
Missouri, western district	do				3,500 00		
Mississippi	do				3,500 00		
Michigan, eastern district	do				3,500 00		
Michigan, western district	do				3,500 00		
Minnesota	do				3,500 00		
Nebraska	do				3,500 00		
Nevada	do				3,500 00		
New Hampshire	do				3,500 00		
New York, northern district	do				4,000 00		
New York, southern district	do				4,000 00		
New York, eastern district	do				4,000 00		
New Jersey	do				4,000 00		
North Carolina, eastern district	do				3,500 00		
North Carolina, western district	do				3,500 00		
Ohio, northern district	do				3,500 00		
Ohio, southern district	do				4,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, District Judges—Continued.</i>							
Oregon	Mar. 3, 1875	R. S. 18	92 369	554 1	\$3,500 00		
Pennsylvania, eastern district	do						
Pennsylvania, western district	do				4,000 00		
Rhode Island	do				4,000 00		
South Carolina	do				3,500 00		
Tennessee	do				3,500 00		
Texas, eastern district	do				3,500 00		
Texas, western district	do				3,500 00		
Vermont	do				3,500 00		
Virginia, eastern district	do				3,500 00		
Virginia, western district	do				3,500 00		
West Virginia	do				3,500 00		
Wisconsin, eastern district	do				3,500 00		
Wisconsin, western district	do				3,500 00		
Retired judge of eastern district of Texas	do				3,500 00		
Retired judge of the district of Delaware	do				3,500 00		
Retired judge of the eastern district of Wisconsin	do				3,500 00		
COURTS IN THE DISTRICT OF COLUMBIA.						\$193,000 00	\$193,000 00
<i>Salaries, Chief Justice and Judges Supreme Court, Dist of Columbia—</i>							
Chief justice of the supreme court of the District	Mar. 3, 1875	R. S., Pt. 2 18	90 369	750 751 1	4,500 00		
Four associate justices, at \$4,000 each	do						
						16,000 00	
UNITED STATES DISTRICT ATTORNEYS.						20,500 00	20,500 00
<i>Salaries, District Attorneys—</i>							
Districts created prior to March 3, 1841, viz:							
Alabama, northern and southern districts; Arkansas, eastern district; Connecticut, Delaware, District of Columbia; Georgia; Illinois, northern district; Indiana, Kentucky, Louisiana, Maine, Maryland, Massachusetts; Michigan, eastern district; Mississippi, northern and southern districts; Missouri, eastern district; New Hampshire, New Jersey; New York, northern district; North Carolina; Ohio, northern district; Pennsylvania, eastern and western districts; Rhode Island, South Carolina; Tennessee, eastern, middle, and western districts; Vermont; and Virginia, eastern district—in all, 32 districts, at \$200 each	Mar. 3, 1875	R. S. 18	144 369	767, 770 1	6,400 00		
Arkansas, western district	do						
California	do				200 00		
Florida, northern district	do				500 00		
Florida, southern district	do				200 00		
Illinois, southern district	do				200 00		
Iowa	do				200 00		
Kansas	do				200 00		
Michigan, western district	do				200 00		
Minnesota	do				200 00		
Missouri, western district	do				200 00		
New York, eastern district	do				200 00		
New York, southern district	do				6,000 00		
Nebraska	do				200 00		
Nevada	do				200 00		
North Carolina, western district	do				200 00		
Ohio, southern district	do				200 00		
Oregon	do				200 00		
Texas, eastern district	do				200 00		
Texas, western district	do				200 00		
Virginia, western district	do				200 00		
West Virginia	do				200 00		
Wisconsin, eastern district	do				200 00		
Wisconsin, western district	do				200 00		
Arizona Territory	Mar. 3, 1875	R. S. 18	332 369	1880 1	250 00		
Colorado Territory	do						
Dakota Territory	do				250 00		
Idaho Territory	do				250 00		
Montana Territory	do				250 00		
New Mexico Territory	do				250 00		
Utah Territory	do				250 00		
Washington Territory	do				250 00		
Wyoming Territory	do				250 00		
						19,350 00	19,350 00
UNITED STATES MARSHALS.							
<i>Salaries, District Marshals—</i>							
Alabama, northern district	Mar. 3, 1875	R. S. 18	146 369	776, 781 1	200 00		
Alabama, southern district	do						
Arkansas, eastern district	do				200 00		
Arkansas, western district	do				200 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, District Marshals—Continued.</i>							
California	Mar. 3, 1875	R. S. 18	146 369	776, 781 1	\$500 00		
Connecticut	do				200 00		
Delaware	do				200 00		
Florida, northern district	do				200 00		
Florida, southern district	do				200 00		
Illinois, northern district	do				200 00		
Illinois, southern district	do				200 00		
Indiana	do				200 00		
Iowa	do				200 00		
Kansas	do				200 00		
Kentucky	do				200 00		
Louisiana	do				200 00		
Maine	do				200 00		
Michigan, eastern district	do				200 00		
Michigan, western district	do				200 00		
Minnesota	do				200 00		
Mississippi, southern district	do				200 00		
Mississippi, northern district	do				200 00		
Missouri, eastern district	do				200 00		
Missouri, western district	do				200 00		
Nevada	do				200 00		
New Hampshire	do				200 00		
New Jersey	do				200 00		
New York, northern district	do				200 00		
New York, eastern district	do				200 00		
Nebraska	do				200 00		
North Carolina, eastern district	do				400 00		
North Carolina, western district	do				200 00		
Ohio, northern district	do				200 00		
Ohio, southern district	do				200 00		
Oregon	do				200 00		
Pennsylvania, western district	do				200 00		
Rhode Island	do				200 00		
South Carolina	do				200 00		
Tennessee, eastern district	do				200 00		
Tennessee, western district	do				200 00		
Tennessee, middle district	do				200 00		
Texas, eastern district	do				200 00		
Texas, western district	do				200 00		
Vermont	do				200 00		
Virginia, eastern district	do				200 00		
Virginia, western district	do				200 00		
West Virginia	do				200 00		
Wisconsin, eastern district	do				200 00		
Wisconsin, western district	do				200 00		
Arizona Territory	Mar. 3, 1875	R. S. 18	332 369	1881 1	200 00		
Colorado Territory	do				200 00		
Dakota Territory	do				200 00		
Idaho Territory	do				200 00		
Montana Territory	do				200 00		
New Mexico Territory	do				200 00		
Utah Territory	do				200 00		
Washington Territory	do				200 00		
Wyoming Territory	do				200 00		
						\$12,100 00	\$11,900 00
UNITED STATES COURTS.							
<i>Expenses of United States Courts—</i>							
Defraying the expenses of the Supreme Court and circuit and district courts of the United States, including the District of Columbia, and also for jurors and witnesses, and expenses of suits in which the United States are concerned, of prosecutions for offences committed against the United States; for the safe-keeping of prisoners, and for defraying the expenses which may be incurred in the enforcement of the act approved February 28, 1871, entitled "An act to amend an act approved May 31, 1870, entitled 'An act to enforce the rights of citizens of the United States to vote in the several States of the Union, and for other purposes,'" or any acts amendatory thereof or supplementary thereto	Appropriated	18	373	1		3,000,000 00	3,000,000 00
<i>Support of Convicts—</i>							
For the support and maintenance of convicts transferred from the District of Columbia	Appropriated	18	373	1		8,000 00	8,000 00
Total Judicial						3,403,450 00	3,403,250 00
Total Civil Establishment						24,985,873 90	24,485,268 40

FOREIGN INTERCOURSE.

FOREIGN INTELLIGENCE

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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FOREIGN INTERCOURSE.							
UNDER DEPARTMENT OF STATE.							
Salaries of Ministers—							
Envoys extraordinary and ministers plenipotentiary to Great Britain, France, Germany, and Russia, at \$17,500 each	Feb. 18, 1875	R. S. 18	293 321	1675 1	\$70,000 00		
Envoys extraordinary and ministers plenipotentiary to Spain, Austria, Brazil, Mexico, Japan, China, and Italy, at \$12,000 each	do				84,000 00		
Envoys extraordinary and ministers plenipotentiary to Chile and Peru, at \$10,000 each	do				20,000 00		
Ministers resident to Portugal, Switzerland, Greece, Belgium, Netherlands, Denmark, Sweden and Norway, Turkey, Ecuador, Colombia, Bolivia, Venezuela, Hawaiian Islands, and the Argentine Republic, at \$7,500 each	do				105,000 00		
Minister resident accredited to Guatemala, Costa Rica, Honduras, Salvador, and Nicaragua, to reside at the place that the President may select in any of the States named, as by act making appropriations for the consular and diplomatic service, approved May 22, 1872, (17 Stats., 142)	do				10,000 00		
Minister resident to Uruguay, also accredited to Paraguay	do				10,000 00		
Minister resident and consul general to Hayti	do				7,500 00		
Minister resident and consul general to Liberia	do				4,000 00		
Chargé d'affaires ad interim and diplomatic officers abroad	do				40,000 00	\$350,500 00	\$350,500 00
Salaries, Secretaries of Legation—							
Secretaries of legation at London, Paris, Berlin, and St. Petersburg, at \$2,625 each	Feb. 18, 1875	R. S. 18	294 321	1675 1	10,500 00		
Secretary of legation to Japan	do				2,500 00		
Secretaries of legation to Austria, Brazil, Italy, Mexico, and Spain, at \$1,800 each	do				9,000 00		
Second secretaries of legation to Great Britain, France, and Germany, at \$2,000 each	do				6,000 00		
Secretary of legation (acting also as interpreter) to China	Feb. 18, 1875	R. S. 18	294 321	1680 1	5,000 00		
Interpreter to the legation in Turkey	Feb. 18, 1875	R. S. 18	294 321	1678 1	3,000 00		
Interpreter to the legation in Japan	Feb. 18, 1875	R. S. 18	294 321	1679 1	2,500 00		
						38,500 00	38,500 00
Salary of Private Amanuensis of Minister to Great Britain—							
To enable Robert C. Schenck, Minister to Great Britain, to employ a private amanuensis	Jan. 11, 1871	16	590	1			
	Feb. 18, 1875	18	321	1		2,500 00	2,500 00
Contingent Expenses of Foreign Missions—							
Contingent expenses of foreign intercourse proper, and of all the missions abroad	Appropriated	18	322	1		100,000 00	100,000 00
Salaries, Consular Service—							
Consulsgeneral, consuls, vice-consuls, commercial agents, and thirteen consular clerks	June 11, 1874	R. S. 18	296 67-69	1690 1	409,900 00		
	Feb. 18, 1875	R. S. 18	304 322	1704 1			
	Mar. 3, 1875	R. S. 18	486	1			
Allowances for clerks at consulates:							
To the consul general at Havana and the consul at Liverpool, each a sum not exceeding the rate of three thousand dollars for any one year; to the consuls general at London, Paris, and Shanghai, each a sum not exceeding the rate of two thousand dollars for any one year; to the consuls general at Berlin, Vienna, Frankfurt, and Montreal, and to the consuls at Hamburg, Bremen, Leipsic, Lyons, Manchester, Beirut, Belfast, Birmingham, Bradford, Chemnitz, Sheffield, Sonneberg, Dresden, Havre, Marseilles, Fayal, Nuremberg, Leith, Naples, Stuttgart, Mannheim, and Tunstall, each a sum not exceeding fifteen hundred dollars for any one year	June 11, 1874	18	70	2	51,000 00		
	Feb. 18, 1875	18	326	1		460,900 00	460,700 00
NOTE.—The difference of \$200 over last year's appropriation is caused by the increase of salary to two consular clerks, under section 5 of the act of June 11, 1874. For list of consulates general, consulates, and commercial agencies, see Appendix, marked "D."							
Salaries, Interpreters to Consulates in China, Japan, and Siam—							
Interpreters to the consulates at Shanghai, Tien-Tsin, Foo-Chow, and Kanagawa, at \$2,000 each	June 11, 1874	18	70	3	8,000 00		
	Feb. 18, 1875	18	326	1			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Salaries, Interpreters to Consulates in China, Japan, and Siam—Continued.</i>							
Interpreters to the consulates at Hankow, Amoy, Canton, and Hong Kong, at \$750 each.....	June 11, 1874 Feb. 18, 1875	18 18	70 326	3 1	\$3,000 00		
Interpreters to twelve other consulates in China, Japan, and Siam, at \$500 each.....	Same acts.....				6,000 00		
						\$17,000 00	\$17,000 00
<i>Salaries, Marshals for Consular Courts—</i>							
Marshals for the consular courts in Japan, China, Siam, and Turkey, including loss by exchange.....	June 11, 1874 Feb. 18, 1875	R. S. 18	796 70	4111 6	7,700 00		
Marshal for the consular court of Nagasaki.....	Submitted.....			1	1,000 00		
						8,700 00	7,700 00
<i>Salaries of Consular Officers not Citizens—</i>							
Payment of consular officers not citizens of the United States.....	Appropriated	18	327	1		10,000 00	10,000 00
<i>Expenses for Interpreters, Guards, &c., in Turkish Dominions—</i>							
Interpreters, guards, and other expenses at the consulates at Constantinople, Smyrna, Candia, Cairo, Jerusalem, and Beirut, in the Turkish dominions.....	Appropriated	18	327	1		3,000 00	3,000 00
<i>Loss on Bills of Exchange, Consular Service—</i>							
Loss by exchange on consular service.....	Appropriated	18	327	1		48,000 00	48,000 00
<i>Contingent Expenses, United States Consulates—</i>							
Contingent expenses, United States consulates, such as stationery, bookcases, arms of the United States, seals, presses, and flags, rent, freight, postage, and other necessary miscellaneous matters, including loss by exchange.....	Appropriated	R. S. 18	311 327	1748 1		131,850 00	131,850 00
UNITED STATES AND SPANISH CLAIMS COMMISSION.							
<i>Salaries and Expenses of United States and Spanish Claims Commission—</i>							
Commissioner.....	May 8, 1872 Feb. 18, 1875	17 18	66 327	1 1	5,000 00		
Counsel.....	Same acts.....				5,000 00		
Secretary.....	do.....				912 50		
Messenger.....	do.....				300 00		
Fuel, gas, &c.....	Appropriated	18	327	1	787 50		
Rent.....	do.....				3,000 00		
						15,000 00	15,000 00
NOTE.—Should Congress deem it advisable, this Commission can, after the expiration of the present fiscal year, (1875-6,) be accommodated in rooms in the present State Department building, and the amount estimated for rent may, in that case, be omitted.							
MISCELLANEOUS.							
<i>Prisons for American Convicts—</i>							
Rent of prisons for American convicts in Siam and Turkey, and for wages of the keepers of the same, including loss by exchange.....	Feb. 18, 1875	R. S. 18	797 327	4121 1	4,000 00		
Rent of prison for American convicts in China.....	Feb. 18, 1875	R. S. 18	798 327	4122 1	1,500 00		
Wages of keepers, care of offenders, and expenses.....	do.....				10,000 00		
Rent of prison for American convicts in Japan.....	Feb. 18, 1875	R. S. 18	798 327	4123 1	750 00		
Wages of keepers, care of offenders, and expenses.....	do.....				5,000 00		
						21,250 00	21,250 00
<i>Bringing Home Criminals—</i>							
Bringing home from foreign countries persons charged with crimes, and expenses incidental thereto, including loss by exchange.....	Appropriated	18	327	1		5,000 00	5,000 00
<i>Relief and Protection of American Seamen—</i>							
Relief and protection of American seamen in foreign countries.....	Feb. 18, 1875	R. S. 18	887 327	4554, 4591 1		100,000 00	100,000 00
<i>Rescuing Shipwrecked American Seamen—</i>							
Expenses which may be incurred in acknowledging the services of masters and crews of foreign vessels in rescuing American citizens from shipwreck.....	Appropriated	18	327	1		5,000 00	5,000 00
<i>Expenses under the Neutrality Act—</i>							
To meet the necessary expenses attendant upon the execution of the neutrality act, to be expended under the direction of the President, pursuant to the act of Congress of May 1, 1810, entitled "An act fixing the compensation of ministers and consuls residing on the coast of Barbary, and for other purposes".....	May 1, 1810 Feb. 18, 1875	R. S. 2 18	1029 608 327	5281, 5291 1-7 1		20,000 00	20,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Annual Expenses of Cape Spartel Light, Coast of Morocco—</i> Annual proportion of the expenses of Cape Spartel light, { on the coast of Morocco..... }	May 31, 1865 Feb. 18, 1875	14 18	680 327	1 1	}	\$285 00	\$285 00
<i>Allowance to Widows or Heirs of Diplomatic and Consular Officers who die abroad—</i> Allowance to widows or heirs of deceased diplomatic and consular officers for the time that would be necessarily occupied in making the transit from the post of duty of the deceased to his residence in the United States, in conformity with the provision of the second section of chapter CLXXXIV of third session Forty-second Congress..... }	Feb. 18, 1875	R. S. 18	311 327	1749 1	}	5,000 00	5,000 00
<i>Rent of Court-house and Jail in Japan—</i> Rent of court-house and jail, and grounds appurtenant, in Yeddo or such other place as the United States minister in Japan may designate..... }	Feb. 18, 1875	R. S. 18	798 328	4124 1	}	5,000 00	5,000 00
<i>Buildings and Grounds for the Legation in China—</i> That the Secretary of State be, and he is hereby, authorized to rent, furnish, and keep suitable buildings, with grounds appurtenant, at Peking for the use of the legation in China, at an annual cost not exceeding five thousand dollars; that the period of such lease shall be for two or more years, and with renewals as the Secretary of State shall determine, and that the sum of five thousand dollars is hereby appropriated out of any money in the Treasury not otherwise appropriated therefor.....	Mar. 3, 1875	18	377	1	.....	5,000 00	5,000 00
Total Foreign Intercourse.....						1,352,485 00	1,351,285 00

MILITARY ESTABLISHMENT.

9 E

MILITARY ESTABLISHMENT

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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UNDER THE WAR DEPARTMENT.							
COMMANDING GENERAL'S OFFICE.							
Expenses of Commanding General's Office— To defray the expenses of the Commanding General's office	Aug. 30, 1856 Mar. 3, 1875	11 18	149 452	1 1	}	\$5,000 00	\$5,000 00
ADJUTANT GENERAL'S OFFICE.							
Expenses of Recruiting— Expenses of recruiting and transportation of recruits, being the estimated cost which will be incurred in the enlistment and transportation from rendezvous to depot of five thousand three hundred and ninety-six (5,396) recruits, the number which is estimated will be required to maintain the Army at its authorized strength during the fiscal year ending June 30, 1877	Appropriated.	18	452	1	.....	107,920 00	105,000 00
Contingencies, Adjutant General's Department— For the contingent fund of the Adjutant General's department at the headquarters of military divisions and departments, being for the purchase of necessary articles of furniture, stationery, police utensils, &c., during the fiscal year ending June 30, 1877	Appropriated.	18	452	1	.....	3,000 00	3,000 00
OFFICE OF CHIEF SIGNAL OFFICER.							
Signal Service— For the expenses of the signal service of the Army, the purchase, equipment, and repair of the field electric telegraphs, signal equipments and stores, &c.	June 21, 1860 Feb. 22, 1862 Mar. 3, 1875	12 12 18	66 344 452	1 1, 2 1	}	12,500 00	12,500 00
PAY DEPARTMENT.							
Pay, and Travelling and General Expenses of the Army— The salaries of officers are fixed by	Mar. 3, 1875	R. S.	219	1261			
The pay of enlisted men is fixed by		R. S.	221	1280			
General and staff officers:							
1 General		R. S.	202	1094		\$13,500 00	
1 Lieutenant General		R. S.	202	1094		11,000 00	
3 Major Generals		R. S.	202	1094		22,500 00	
6 Brigadier Generals		R. S.	202	1094		33,000 00	
6 Aides-de-camp, (colonels,) in addition to pay in the line		R. S.	203	1096		12,600 00	
2 Aides-de-camp, (lieutenant colonels,) in addition to pay in the line		R. S.	203	1097		3,200 00	
1 Military secretary, (lieutenant colonel,) in addition to pay in the line		R. S.	203	1097		1,600 00	
9 Aids-de-camp to major generals, in addition to pay in the line		R. S.	203	1098		1,800 00	
12 Aides-de-camp to brigadier generals, in addition to pay in the line		R. S.	203	1098		1,800 00	
1 Adjutant general, (brigadier general)	Mar. 3, 1875	18	478	1		5,500 00	
2 Assistant adjutants general, (colonels)	do					7,000 00	
4 Assistant adjutants general, (lieutenant colonels)	do					12,000 00	
10 Assistant adjutants general, (majors)	do					25,000 00	
5 Inspectors general, (colonels)	June 23, 1874	18	244	1, 6		17,500 00	
2 Assistant inspectors general, (lieutenant colonels)	do					6,000 00	
1 Assistant inspector general, (major)	do					2,500 00	
1 Judge advocate general, (brigadier general)	June 23, 1874	R. S.	212	1198	}	5,500 00	
1 Assistant judge advocate general, (colonel)	June 23, 1874	R. S.	212	1198		3,500 00	
8 Judge advocates, (majors)	June 23, 1874	R. S.	212	1200	}	20,000 00	
1 Quartermaster general, (brigadier general)	Mar. 3, 1875	18	245	6		5,500 00	
4 Assistant quartermasters general, (colonels)	do					14,000 00	
8 Deputy quartermasters general, (lieutenant colonels)	do					24,000 00	
14 Quartermasters, (majors)	do					35,000 00	
30 Assistant quartermasters, (captains)	do					60,000 00	
9 Military storekeepers, (captains)	Mar. 3, 1875	R. S.	206	1132	}	18,000 00	
1 Commissary general of subsistence, (brigadier general)		18	339	2		5,500 00	
2 Assistant commissaries general of subsistence, (colonels)		R. S.	207	1140		7,000 00	
3 Assistant commissaries general of subsistence, (lieutenant colonels)	June 23, 1874	R. S.	207	1140		9,000 00	
		18	244	3			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay, and Travelling and General Expenses of the Army—Continued.</i>							
8 Commissaries of subsistence, (majors).....		R. S.	207	1140	\$20,000 00		
12 Commissaries of subsistence, (captains).....	June 23, 1874	18	244	3	24,000 00		
180 Acting assistant commissaries of subsistence, in addition to pay in the line.....		R. S.	219	1261	18,000 00		
1 Surgeon general, (brigadier general).....	June 23, 1874	18	244	4	5,500 00		
1 Assistant surgeon general, (colonel).....	do				3,500 00		
1 Chief medical purveyor, (colonel).....	do				3,500 00		
2 Assistant medical purveyors, (lieutenant colonels).....	do				6,000 00		
50 Surgeons, (majors).....	do				125,000 00		
94 Assistant surgeons, (captains).....	do				188,000 00		
56 Assistant surgeons, (lieutenants).....	do				89,600 00		
4 Medical storekeepers, (captains).....	June 23, 1874	R. S.	210	1168	8,000 00		
		18	244	4			
30 Post chaplains.....		R. S.	205	1121	45,000 00		
1 Paymaster general, (colonel).....		R. S.	211	1182	3,500 00		
2 Assistant paymasters general, (colonels).....		R. S.	211	1182	6,000 00		
50 Paymasters, (majors).....	Mar. 2, 1875	18	338	1	125,000 00		
<i>Corps of engineers:</i>							
1 Chief of engineers, (brigadier general).....		R. S.	208	1151	5,500 00		
6 Colonels.....		R. S.	208	1151	21,000 00		
12 Lieutenant colonels.....		R. S.	208	1151	36,000 00		
24 Majors.....		R. S.	208	1151	60,000 00		
30 Captains.....		R. S.	208	1151	60,000 00		
26 First lieutenants.....		R. S.	208	1151	41,600 00		
10 Second lieutenants.....		R. S.	208	1151	15,000 00		
1 Adjutant of battalion, in addition to pay in the line.....		R. S.	208	1156	200 00		
1 Quartermaster of battalion, in addition to pay in the line.....		R. S.	208	1156	200 00		
1 Sergeant major.....		R. S.	208	1154	432 00		
1 Quartermaster sergeant.....		R. S.	208	1154	432 00		
20 Sergeants.....		R. S.	208	1155	8,160 00		
16 Corporals.....		R. S.	208	1155	3,840 00		
8 Musicians.....		R. S.	208	1155	1,248 00		
80 Privates, first class.....		R. S.	208	1155	16,320 00		
74 Privates, second class.....		R. S.	208	1155	11,544 00		
<i>Ordnance department:</i>							
1 Chief of ordnance, (brigadier general).....	June 23, 1874	18	245	5	5,500 00		
3 Colonels.....	do				10,500 00		
4 Lieutenant colonels.....	do				12,000 00		
10 Majors.....	do				25,000 00		
20 Captains.....	do				40,000 00		
16 First lieutenants.....	do				25,600 00		
1 Ordnance storekeeper, (major).....	June 23, 1874	R. S.	209	1159	2,500 00		
		18	245	6			
10 Ordnance storekeepers, (captains).....	do				20,000 00		
116 Ordnance sergeants.....		R. S.	204	1109	47,328 00		
40 Sergeants.....		R. S.	209	1162	16,320 00		
80 Corporals.....		R. S.	209	1162	19,200 00		
150 Privates, first class.....		R. S.	209	1162	30,600 00		
130 Privates, second class.....		R. S.	209	1162	20,280 00		
<i>Signal corps:</i>							
1 Colonel.....		R. S.	212	1195	3,500 00		
150 Sergeants.....		R. S.	35	221,	30,600 00		
				222,			
				223			
30 Corporals.....	Mar. 3, 1875	18	452	1	5,400 00		
270 Privates.....	do				42,120 00		
<i>Ten regiments of cavalry:</i>							
10 Colonels.....		R. S.	202	1094	35,000 00		
		R. S.	203	1102			
10 Lieutenant colonels.....		R. S.	203	1102	30,000 00		
30 Majors.....		R. S.	203	1102	75,000 00		
120 Captains.....		R. S.	203	1103	240,000 00		
120 First lieutenants.....		R. S.	203	1103	192,000 00		
120 Second lieutenants.....		R. S.	203	1103	180,000 00		
10 Adjutants.....		R. S.	203	1102	18,000 00		
10 Regimental quartermasters.....		R. S.	203	1102	18,000 00		
2 Chaplains, (for colored regiments).....		R. S.	203	1104	3,000 00		
		R. S.	205	1121			
10 Sergeant majors.....		R. S.	203	1102	2,760 00		
10 Quartermaster sergeants.....		R. S.	203	1102	2,760 00		
10 Saddler sergeants.....		R. S.	203	1102	2,640 00		
10 Chief trumpeters.....		R. S.	203	1102	2,640 00		
10 Chief musicians.....		R. S.	203	1102	7,200 00		
		R. S.	221	1279			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay, and Travelling and General Expenses of the Army—Continued.</i>							
2 Senior veterinary surgeons		R. S.	203	1102	\$2,400 00		
10 Junior veterinary surgeons		R. S.	203	1103	9,000 00		
120 First sergeants		R. S.	203	1103	31,680 00		
600 Sergeants		R. S.	203	1103	122,400 00		
480 Corporals		R. S.	203	1103	86,400 00		
240 Trumpeters		R. S.	203	1103	37,440 00		
240 Farriers		R. S.	203	1103	43,200 00		
120 Saddlers		R. S.	203	1103	21,600 00		
120 Wagoners		R. S.	203	1103	20,160 00		
6,480 Privates		R. S.	203	1103	1,010,880 00		
Five regiments of artillery:							
5 Colonels	June 17, 1874	R. S.	202	1094	17,500 00		
5 Lieutenant colonels		R. S.	203	1099			
5 Lieutenant colonels		R. S.	203	1099	15,000 00		
16 Majors		R. S.	203	1099	40,000 00		
5 Adjutants		18	77	1			
5 Regimental quartermasters and commissaries		R. S.	203	1099	9,000 00		
60 Captains, (5 serving with light batteries)		R. S.	203	1100,'1	9,000 00		
120 First lieutenants, (10 serving with light batteries)		R. S.	203	1100,'1	109,000 00		
65 Second lieutenants, (10 serving with light batteries)		R. S.	203	1100,'1	181,000 00		
5 Sergeant majors		R. S.	203	1099	92,000 00		
5 Quartermaster sergeants		R. S.	203	1099	1,380 00		
10 Principal musicians		R. S.	203	1099	1,380 00		
5 Chief musicians		R. S.	203	1099	2,640 00		
60 First sergeants		R. S.	203	1099	3,600 00		
250 Sergeants		R. S.	221	1279			
240 Corporals		R. S.	203	1100	15,840 00		
120 Musicians		R. S.	203	1100	51,000 00		
120 Artificers		R. S.	203	1100	43,200 00		
60 Wagoners		R. S.	203	1100	18,720 00		
1,725 Privates		R. S.	203	1100	21,600 00		
		R. S.	203	1100	10,080 00		
		R. S.	203	1100	269,100 00		
Twenty-five regiments of infantry:							
25 Colonels		R. S.	202	1094	87,500 00		
25 Lieutenant colonels		R. S.	204	1106			
25 Lieutenant colonels		R. S.	204	1106	75,000 00		
25 Majors		R. S.	204	1106	62,500 00		
25 Adjutants		R. S.	204	1106	45,000 00		
25 Regimental quartermasters		R. S.	204	1106	45,000 00		
2 Chaplains		R. S.	204	1108	3,000 00		
250 Captains		R. S.	205	1121			
250 First lieutenants		R. S.	204	1107	450,000 00		
250 Second lieutenants		R. S.	204	1107	375,000 00		
25 Sergeant majors		R. S.	204	1107	350,000 00		
25 Quartermaster sergeants		R. S.	204	1106	6,900 00		
50 Principal musicians		R. S.	204	1106	6,900 00		
25 Chief musicians		R. S.	204	1106	13,200 00		
250 First sergeants		R. S.	204	1106	18,000 00		
1,000 Sergeants		R. S.	221	1279			
1,000 Corporals		R. S.	204	1107	66,000 00		
500 Artificers		R. S.	204	1107	204,000 00		
500 Musicians		R. S.	204	1107	180,000 00		
250 Wagoners		R. S.	204	1107	90,000 00		
9,083 Privates		R. S.	204	1107	78,000 00		
		R. S.	204	1107	42,000 00		
		R. S.	204	1107	1,416,948 00		
Indian scouts:							
300 Privates		R. S.	204	1112	46,800 00		
		R. S.	220	1276			
Miscellaneous:							
Pay of retired officers		R. S.	220	1274	573,150 00		
Additional pay to officers for length of service		R. S.	219	1262,'3	986,752 50		
175 Contract surgeons—(Army Reg., 1863, paragraphs 1304, '5, '6)	Jan. 1, 1875	18	294	1	251,500 00		
52 Paymasters' clerks		R. S.	211	1190	62,400 00		
250 Hospital stewards	June 23, 1874	18	244	4	90,000 00		
200 Hospital matrons		R. S.	216	1239	24,000 00		
		R. S.	220	1277			
70 Superintendents of national cemeteries			R. S.	951	4873, 4875	57,750 00	
148 Commissary sergeants		R. S.	207	1142	60,384 00		
Pay of messengers to paymasters—(Order of Secretary of War, dated July 14, 1868)	Appropriated.	18	452	1	15,000 00		
Extra-duty pay to enlisted men		R. S.	222	1287	50,000 00		
Travel, pay, and commutation of subsistence to discharged soldiers		R. S.	222	1290	500,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay, and Travelling and General Expenses of the Army—Continued.</i>							
Retained pay to discharged men		R. S.	221	1281, 2	\$703, 860 00		
Pay to soldiers for clothing not drawn		R. S.	223	1302	400, 000 00		
Additional pay to enlisted men		R. S.	221	1281, 1282, 1284	356, 520 00		
Expenses of officers of the Army when travelling under orders	Mar. 3, 1875	18	452	1	150, 000 00		
Postage on letters and packages received and sent by officers of the Army, on public service; cost of telegrams; compensation of citizen witnesses attending upon courts-martial, military commissions, courts of inquiry; travelling expenses of paymasters' clerks	Appropriated.	18	452	1	100, 000 00		
Recapitulation:							
General and staff officers					\$1, 054, 100 00		
Corps of engineers					281, 476 00		
Ordnance department					274, 828 00		
Signal corps					81, 620 00		
Ten regiments of cavalry					2, 194, 160 00		
Five regiments of artillery					911, 040 00		
Twenty-five regiments of infantry					3, 614, 948 00		
Indian scouts					46, 800 00		
Miscellaneous					4, 381, 316 50		
NOTE.—Although the pay for the grades of veterinary surgeon, artificer, and wagoner is not fixed in the chapter on Pay, they are entitled to the old rates of pay until further legislation, under section 5597 of Revised Statutes, page 1091.						\$12, 840, 288 50	\$11, 400, 000 00
MILITARY ACADEMY.							
<i>Pay of the Military Academy—</i>							
1 Superintendent, (colonel,) in addition to pay as captain		R. S.	224	1309	1, 500 00		
		R. S.	227	1334			
1 Commandant of cadets, (lieutenant colonel,) in addition to pay as captain	Mar. 3, 1875	18	467	1			
do					1, 200 00		
4 Professors, (colonels)		R. S.	224	1309	14, 000 00		
		R. S.	227	1336			
		R. S.	224	1309	15, 000 00		
5 Professors, (lieutenant colonels)		R. S.	227	1336			
do	June 6, 1874	18	59	1			
1 Instructor of practical military engineering, (major,) in addition to pay as first lieutenant		R. S.	227	1336	900 00		
1 Instructor of ordnance and science of gunnery, (major,) in addition to pay as first lieutenant		R. S.	227	1336	900 00		
8 Assistant professors, (captains,) in addition to pay as first lieutenants		R. S.	224	1309	4, 000 00		
		R. S.	227	1337			
3 Instructors of cavalry, artillery, and infantry tactics, (captains,) in addition to pay as first lieutenants		R. S.	224	1309	1, 500 00		
		R. S.	227	1337			
4 Assistant instructors of tactics, commanding companies, (captains,) in addition to pay as second lieutenants	Mar. 3, 1875	18	467	1	2, 400 00		
1 Adjutant, in addition to pay as first lieutenant		R. S.	224	1309	300 00		
		R. S.	227	1335			
1 Master of the sword		R. S.	224	1309	1, 500 00		
		R. S.	227	1338			
1 Teacher of music	Mar. 3, 1875	18	419	9	1, 080 00		
310 Cadets		R. S.	225	1315	188, 945 00		
		R. S.	227	1339			
16 Musicians for companies		R. S.	226	1322	2, 496 00		
10 Musicians of the band	Mar. 3, 1875	18	419	9	4, 080 00		
30 Musicians of the band	do				10, 800 00		
Additional pay to professors for length of service		R. S.	227	1336	6, 800 00		
						257, 401 00	235, 000 00
SUBSISTENCE DEPARTMENT.							
<i>Subsistence of the Army—</i>							
Subsistence of regular troops, Indian scouts, civilian employés, &c	Appropriated.	18	452	1			
		No. of Persons.	No. of Rations.				
Battalion of engineers		200	200	R. S.	202	1094	
Ten regiments of cavalry		8, 450	8, 450	R. S.	202	1094	
Five regiments of artillery		2, 600	2, 600	R. S.	202	1094	
Twenty-five regiments of infantry		12, 085	12, 085	R. S.	202	1094	
Ordnance men, (one and one-half rations per day)		120	180	R. S.	202	1094	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.			Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Subsistence of the Army—Continued.</i>									
	<i>No. of Persons.</i>	<i>No. of Rations.</i>							
Ordnance men	280	280		R. S.	202	1094			
Ordnance sergeants	115	115		R. S.	202	1094			
Commissary sergeants	148	148		R. S.	207	1142			
Hospital stewards	250	250		R. S.	202	1094			
West Point detachments	223	223		R. S.	202	1094			
Recruiting parties	400	400		R. S.	202	1094			
Indian scouts	300	300		R. S.	202	1094			
Women to companies, (laundresses)	1,740	1,740		R. S.	223	1295			
Employés, Quartermaster's department ..	1,900	1,900	Appropriat. d.	18	452	1			
Contract surgeons	125	125	June 23, 1874	18	245	4			
Enlisted men, signal service	450	450	Jan. 1, 1875	18	294	1			
			June 16, 1874	18	72	1			
Hospital matrons	200	200		R. S.	220	1277			
				R. S.	223	1295			
Total	29,586	29,646							
One ration per day is allowed each person, except one hundred and twenty ordnance men, who receive one and one-half rations per day; 29,646 rations per day for 365 days, amount to 10,820,790 rations, which, at 24 cents each, amount to							\$2,596,989 60		
Difference between cost of the ration at 24 cents and commutation at \$1, for one hundred and forty-six enlisted men employed as clerks, messengers, and watchmen in the Adjutant General's office, &c.; two in the office of the Chief of Engineers; eight in the office of the Chief of Ordnance; one in the Centennial office; one hundred and fifty at the Headquarters of the Army and of military divisions, departments, and districts; and three hundred and ninety-five as clerks, observers, &c., in the signal service: Total, 702 men, for 365 days, being 256,230 rations, at 76 cents per ration							194,734 80		
Subsistence stores for issue to Indians visiting military posts				R. S.	371	2110	5,000 00		
Subsistence of 450 military convicts (discharged soldiers undergoing sentence of courts martial) for 365 days, being 164,250 rations, at 24 cents per ration									
Subsistence of 200 prisoners of war (Indians) for 365 days, being 73,000 rations, at 24 cents per ration			Army Reg's, 1863, par. 746.	R. S.	243	1357	39,420 00		
							17,520 00		
Reduction made by order of the Secretary of War							2,853,664 40		
							283,664 40		
							\$2,570,000 00	\$2,484,330 00	
NOTE.—In making up this estimate, the following expenses are included: Cost at place of purchase of subsistence supplies for issue to troops, &c., and for sale to officers and enlisted men, under sections 1144 and 1149 of the Revised Statutes; losses from wastage in issuing; loss and damage in transportation; losses from deterioration while on hand; protection of supplies, including rent of necessary storehouses, purchase of paulins, &c.; building and repairing bake-ovens; the increased cost of subsistence of enlisted men when travelling under orders, or when upon detached service, under circumstances which render it impracticable to issue rations to them in kind; the cost of purchasing, issuing, and accounting for subsistence supplies, and of their care and preservation, including the cost of the required scales, measures, utensils, tools, stationery, office furniture, and other necessary expenses incident to subsisting the Army.									
QUARTERMASTER'S DEPARTMENT.									
<i>Regular Supplies—</i>									
Regular supplies of the Quartermaster's department, consisting of stoves for heating and cooking; of fuel for officers and enlisted men, guards, hospitals, storehouses, and offices; of forage in kind for the horses, mules, and oxen of the Quartermaster's department, at the several posts and stations, and with the armies in the field; for the horses of the several regiments of cavalry, the batteries of artillery, and such companies of infantry and scouts as may be mounted, and for the authorized number of officers' horses, including bedding for the animals; of straw for soldiers' bedding; and of stationery, including blank books for the Quartermaster's department, certificates for discharged soldiers, blank forms for the Pay and Quartermaster's departments, and for printing of division and department orders and reports				R. S.	206	1133	4,900,000 00		
				R. S.	220	1270,			
						1271			
				R. S.	951	4875			
			Revised Army Reg's, 1863, p. 159. par. 1064.						
Reduction made by order of the Secretary of War			Appropriated.	18	452	1			
							300,000 00		
							4,600,000 00	4,250,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Incidental Expenses—</i> For postage and telegrams or despatches; extra pay to soldiers employed under the direction of the Quartermaster's department in the erection of barracks, quarters, storehouses, and hospitals, in the construction of roads and other constant labor, for periods of not less than ten days, including those employed as clerks at division and department headquarters, hospital stewards on clerical duty, and signal-service sergeants; expenses of expresses to and from the frontier posts and armies in the field; of escorts to paymasters and other disbursing officers, and to trains where military escorts cannot be furnished; expenses of the interment of officers killed in action, or who die when on duty in the field or at posts on the frontiers, or when travelling on orders, and of non-commissioned officers and soldiers; authorized office furniture; hire of laborers in the Quartermaster's department, including the hire of interpreters, spies, and guides for the Army; compensation of clerks to officers of the Quartermaster's department; compensation of forage and wagon masters authorized by the act of July 5, 1838; for the apprehension, securing, and delivering of deserters, and the expenses incident to their pursuit; and for the following expenditures required for the several regiments of cavalry, the batteries of light artillery, and such companies of infantry and scouts as may be mounted, and for the trains, to wit: Hire of veterinary surgeons, medicines for horses and mules, picket ropes, and for shoeing horses and mules; also, generally, the proper and authorized expenses for the movement and operations of the Army not expressly assigned to any other department.		R. S.	206	1137			
		R. S.	222	1287			
	Revised Army Reg's, 1863, p. 159, par. 1065.					\$1,500,000 00	\$1,200,000 00
	July 5, 1838 Appropriated.	5	257	10			
		18	453	1			
<i>Horses for Cavalry and Artillery—</i> Purchase of horses for the cavalry and artillery, and for the Indian scouts, and for such infantry as may be mounted		R. S.	206	1133			
	Revised Army Reg's, p. 159, par. 1064.					400,000 00	300,000 00
	Appropriated.	18	453	1			
<i>Army Transportation—</i> Transportation of the Army, including baggage of the troops, when moving either by land or water; of clothing, camp and garrison equipage from the depots of Philadelphia and Jeffersonville to the several posts and Army depots, and from those depots to the troops in the field; of horse equipments and of subsistence stores from the places of purchase and from the places of delivery, under contract, to such places as the circumstances of the service may require them to be sent; of ordnance, ordnance stores, and small-arms from the foundries and armories to the arsenals, fortifications, frontier posts, and army depots; freights, wharfage, tolls, and ferriages; the purchase and hire of horses, mules, oxen, and harness, and the purchase and repair of wagons, carts, and drays, and of ships and other sea-going vessels and boats required for the transportation of supplies and for garrison purposes; for drayage and cartage at the several posts; hire of teamsters; transportation of funds for the pay and other disbursing departments; the expense of sailing public transports on the various rivers, the Gulf of Mexico, and the Atlantic and Pacific; for procuring water at such posts as, from their situation, require it to be brought from a distance; and for clearing roads, and for removing obstructions from roads, harbors, and rivers, to the extent which may be required for the actual operations of the troops in the field.		R. S.	35	220			
		R. S.	206	1133, 1135			
	Revised Army Reg's, p. 159, par. 1064, and p. 163, par. 1096.					4,500,000 00	4,000 000 00
	Appropriated.	18	453	1			
<i>Barracks and Quarters—</i> Hire of quarters for officers on military duty, hire of quarters for troops, of storehouses for the safe-keeping of military stores, of offices, and of grounds for camp and summer cantonments, and for temporary frontier stations; for the construction of temporary huts and stables; and for repairing public buildings at established posts.		R. S.	206	1136			
		R. S.	220	1270			
	Appropriated.	18	454	1		1,900,000 00	1,500,000 00
	Revised Army Reg's, p. 159, par. 1066.						
<i>Construction and Repair of Hospitals—</i> Construction and repair of hospitals, as reported by the Surgeon General of the Army	Appropriated.	18	454	1	\$125,000 00		
Reduction made by order of the Secretary of War					25,000 00	100,000 00	100,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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Clothing and Equipage—							
Purchase and manufacture of clothing, camp and garrison equipage, and for preserving and repacking stock of clothing, camp and garrison equipage and materials on hand at the Philadelphia, Jeffersonville, and other depots of the Quartermaster's department.....	Appropriated. Revised Army Reg's, p. 159, par. 1064.	R. S. 18	206 454	1133, 1135 1	\$1,690,150 19		
Reduction made by order of the Secretary of War.....					190,150 19	\$1,500,000 00	\$1,450,000 00
National Cemeteries—							
Establishing and maintaining military cemeteries.....	Appropriated.	R. S. 18	950 454	4870 4879 1		250,000 00	150,000 00
Contingencies of the Army—							
This estimate is made to meet such expenses as are not provided for by other estimates, and embraces all branches of the military service. The appropriation is disbursed under the immediate orders of the Secretary of War.....	Appropriated.	18	454	1		100,000 00	100,000 00
MEDICAL DEPARTMENT.							
Medical and Hospital Department—							
Purchase of medical and hospital supplies; medical care and treatment of officers and soldiers on detached duty; expenses of purveying depots; advertising and other miscellaneous expenses of the Medical department.....	Appropriated.	18	454	1		225,000 00	200,000 00
Medical Museum and Library—							
Army Medical Museum, and for medical and other works for the library of the Surgeon General's office.....	Appropriated.	18	454	1		10,000 00	10,000 00
Appliances for Disabled Soldiers—							
Providing surgical appliances for the relief of persons disabled in the military or naval service of the United States, and not included within the terms of any law granting artificial limbs or other special relief.....	Appropriated.	17	260	1		5,000 00	
ENGINEER DEPARTMENT.							
Engineer Depot at Willett's Point, N. Y.—							
Remodelling portions of bridge equipage to make it correspond with the new patterns	Appropriated.	18	454	1	1,000 00		
Necessary materials for properly drilling the engineer companies in field duties.....	do.				1,000 00		
Incidental expenses of the depot, fuel, forage, chemicals, stationery, extra-duty pay, purchase of animals, ordinary repairs, &c.....	do.				3,000 00		
Fire-proof building for an electrical laboratory, library room, galvanometer room, model-torpedo operating room, confidential torpedo museum, public torpedo museum, and chemical laboratory	Submitted.				20,000 00		
Reduction made by order of the Secretary of War.....					25,000 00 15,000 00	10,000 00	9,000 00
Trials with Torpedoes—							
For continuing trials to perfect the system and to instruct the engineer troops in the practical application of the same.....	Appropriated.	18	454	1		10,000 00	10,000 00
ORDNANCE DEPARTMENT.							
Ordnance Service—							
Current expenses of the ordnance service.....	Appropriated.	18	454	1	250,000 00		
Reduction made by order of the Secretary of War.....					50,000 00	200,000 00	125,000 00
NOTE.—The amount estimated for under this head is required to pay the expenses at the arsenals of receiving stores and issuing arms and other ordnance supplies; of police and office duties; of rents, tolls, fuel, and lights; of stationery and office furniture; of tools and instruments for use; of public animals, forage, and vehicles; incidental expenses of the ordnance service, including compensation of workmen in the armory and museum building connected with the Ordnance office, and expenses attending practical trials and tests of ordnance, small-arms, and other ordnance supplies not otherwise specially provided for. This amount cannot be reduced without embarrassment to the public service.							
Ordnance, Ordnance Stores, and Supplies—							
Manufacture of metallic ammunition for small-arms.....	Appropriated.	18	455	1	150,000 00		
NOTE.—This will manufacture six millions of cartridges for the arm recently adopted, being about two hundred rounds per man.							
Overhauling, cleaning, and preserving new ordnance stores on hand at the arsenals	do.				50,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Ordnance, Ordnance Stores, and Supplies—Continued.</i>							
Dismounting guns and removing the armaments, &c., from forts being repaired, modified, &c., including heavy carriages returned to arsenals for alterations and repairs, and overhauling and removing obsolete or surplus stores at permanent forts	Submitted				\$25,000 00		
Repairing, preserving, overhauling, painting, &c., the armament, &c., in sea-coast forts, and for payment of labor and enlisted men detailed on extra duty	do				25,000 00		
Saddlers' tools and materials; smiths' tools and materials; tool bags; cavalry forges, with their tools and materials for the cavalry service, as directed in General Order No. 2, Adjutant General's Office, 1873, heretofore supplied by the Quartermaster's department	Appropriated ..	18	455	1	25,000 00		
Repairing ordnance and ordnance stores in the hands of troops	do				25,000 00		
Repairing ordnance and ordnance stores for issue at the arsenals and depots	do				25,000 00		
<i>NOTE.</i> —These amounts are absolutely necessary for the proper preservation and repairs of stores.							
Purchase and manufacture of ordnance stores to fill requisitions of troops	do				200,000 00		
Infantry, cavalry, and artillery equipments, consisting of valises, haversacks, canteens, great-coat straps, &c.	do				100,000 00		
<i>NOTE.</i> —These stores have heretofore been supplied by the Quartermaster's department, but on the recommendation of the Quartermaster General, and to secure for the Army the best quality of stores, the Secretary of War transferred the duty of supplying them to the Ordnance department. The knapsacks left from the war have been all condemned as entirely worthless; twenty thousand of a new pattern have been made for trial in the field. It is absolutely necessary to manufacture a sufficient supply to meet the urgent demands and present wants of the troops in the field.							
Recovering cavalry saddles with leather, manufacture of saddlebags, &c., and overhauling horse equipments for cavalry troops	do				75,000 00		
Purchase of a site for powder depot and its preparation for the erection of suitable magazines	Submitted				50,000 00		
						\$750,000 00	\$370,000 00
<i>Manufacture of Arms at National Armories—</i>							
Manufacture of the new model breech-loading musket and carbine, adopted for the military service on recommendation of the board of officers convened under act of Congress approved June 6, 1872	Appropriated ..	18	455	1	500,000 00		150,000 00
<i>Armament of Fortifications—</i>							
Conversion of heavy ordnance	Appropriated ..	18	388	1	500,000 00		
<i>NOTE.</i> —The object of this estimate is to continue the conversion of smooth-bore 10-inch guns into rifles of eight inches calibre. The small appropriation for the present fiscal year will enable this Department to convert about forty of the 1,294 10-inch guns now in our forts. The necessity for this appropriation was made apparent in the President's special message to Congress of January 20, 1875. Our experiments prove that this is the most economical and sure method of providing efficient guns of medium power, which are indispensably necessary in our fortifications.							
Projectiles for heavy ordnance	Submitted				250,000 00		
<i>NOTE.</i> —This estimate is made to enable the Department to provide a supply of projectiles for the guns, and this amount might be reduced if Congress would permit the Secretary of War to exchange obsolete and condemned projectiles now on hand for new projectiles, thus utilizing the large amount of useless projectiles at present at our arsenals.							
Carriages for heavy guns	do				250,000 00		
<i>NOTE.</i> —This is to provide new carriages, and to improve by alteration those now at our forts. The constant improvement in gun carriages is rendered necessary by the change in character and increase in power of our guns, the position where placed, and the quantity of work required of them; and the cost of our iron gun carriage, with its fixtures and implements, is about equal to the cost of the gun that is to be mounted upon it.							
For proving ground, and providing and proving cannon, carriages, projectiles, fuzes, gunpowder, and other ordnance materials and stores	do				250,000 00		
						1,250,000 00	75,000 00
<i>NOTE.</i> —The necessity for the appropriation is made all the more apparent by the uniform practice of other nations to keep up a well-equipped proving ground, with ample means to prove and test all character and nature of ordnance and other war material, this being the only practicable method of reaching satisfactory conclusions in the endeavor to place our national armament on a proper footing. We have several heavy guns of large calibre that cannot be tested without an appropriation for the purpose, and the necessity for Congressional action was fully endorsed by the President in his special message of January 20, 1875.							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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MILITARY ACADEMY.							
Current and Ordinary Expenses, Military Academy—							
Repairs and improvements, timber, planks, boards, joists, wall strips, lath, shingles, slate, tin, sheet lead, nails, screws, locks, butts, hinges, glass, paints, oils, turpentine, varnish, stone, brick, lime, cement, plaster, hair, drain-pipe, blasting powder, fuse, iron, steel, tools, mantels, and other such material	Appropriated	18	467	1	\$14,500 00		
Pay of citizen mechanics, and labor employed upon repairs and improvements that cannot be done by enlisted men	do				8,000 00		
NOTE.—The proportionate amount of work that can be done by the labor of enlisted men, and the cost of that not done by such labor, vary from year to year, according to the kind of work and the necessities of the post; and it is impossible to estimate accurately a year in advance the relative amounts necessary for mechanic work and materials. The total of \$22,500, granted for some years past for both items, has been no more than sufficient for the objects named. It is recommended that the item for materials, \$14,500, and that for labor, \$8,000, be consolidated.							
Pay of principal citizen mechanic, for supervision of work by citizen mechanics and labor on repairs	Submitted				1,800 00		
NOTE.—This is a new item, but for an object that is very necessary, as there is constant necessity for the services of a man competent for the inspection of buildings and capable of directing all kinds of mechanical labor pertaining to construction and repair of buildings.							
Fuel and apparatus, viz: Coal, wood, stoves, grates, furnaces, ranges, fire-brick, repairs of steam-heating apparatus, &c.	Appropriated	18	467	1	14,000 00		
Gas-pipes, fixtures, lamp-posts, gas-lamps, gasometers, retorts, and annual repairs	do				600 00		
Fuel for cadets' mess-hall, shops, and laundry	do				3,500 00		
Postage and telegrams	do				300 00		
Stationery, viz: Blank books, paper, envelopes, quills, steel pens, pencils, rubber, erasers, wax, wafers, ink, mucilage, &c.	do				600 00		
Transportation of materials, discharged cadets, and ferriages	do				2,500 00		
NOTE.—This increase of \$700 will be necessary to pay transportation of discharged cadets. The two lower classes, it happens, are larger than heretofore for many years, and the usual proportion of discharges from such classes will necessitate an increase in this item.							
Printing type, materials for office, diplomas for graduates, registers, and blanks	do				900 00		
Compensation to pressman and lithographer, \$50 each	do				100 00		
Clerk to disbursing officer and quartermaster	do				1,650 00		
Clerk to adjutant	do				1,500 00		
Clerk to treasurer	do				1,500 00		
Department of instruction in mathematics, viz: Levelling rod, \$17; measuring tapes, \$17; cleaning and repairing instruments, \$50; text-books, books of reference, and stationery for use of instructors, \$50—in all	do				134 00		
Department of artillery, cavalry, and infantry tactics, viz: Tan-bark for riding-hall and gymnasium	do				300 00		
Repairing camp stools and camp furniture	do				100 00		
Furniture for commandant's office and reception room for visitors	do				300 00		
Repairing gymnasium	do				100 00		
Foils, masks, gloves, fencing jackets, and repairs	Submitted				200 00		
Stationery for use of instructor and assistants, and books	Appropriated	18	467	1	120 00		
Repairs of stalls, mangers, and windows in cavalry stables	Submitted				300 00		
Department of civil and military engineering, viz: Models, maps, instruments, text-books, books of reference, stationery, and contingencies	Appropriated	18	467	1	500 00		
Continuing preparation of text-books for special instruction of cadets. (No further estimate for this purpose is contemplated)	do				2,500 00		
NOTE.—It is suggested that the items of \$500 for models, &c., and \$2,500 for preparation of text-books, &c., be made indefinite as to fiscal year. It is often impossible to make definite contracts, either as to amount of purchase or time of delivery of models, particularly as to those made abroad, and also to fix time and cost for the publication of text-books, the preparation of which cannot properly be hurried.							
Compensation to draughtsman, in addition to pay and extra-duty pay as soldier	do				100 00		
Department of chemistry, mineralogy, and geology, viz: Chemicals, chemical apparatus, glass and porcelain ware, paper, wire, sheet metal, ores, and photographic materials	do				500 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Current and Ordinary Expenses, Military Academy—Continued.</i>							
Rough specimens, fossils, files, alcohol lamps, blow-pipes, pencils, and steel and agate mortars for practical instruction in mineralogy and geology, and for gradual increase of cabinet	Appropriated.	18	467	1	\$600 00		
Repairs and additions to electric, galvanic, magnetic, electric-magnetic, magneto-electric, pneumatic, thermic, and optical apparatus	do				650 00		
Magneto-electric machine	Submitted				3,000 00		
Carpenter and metal work, including material for same ..	Appropriated.	18	467	1	75 00		
Pay of mechanic employed in chemical and geological section rooms, and in lecture room	do				1,050 00		
Books of reference and text-books for instructors, and contingencies	do				300 00		
Compensation to attendant	do				50 00		
Models and diagrams, and apparatus for same	do				75 00		
Department of natural and experimental philosophy, viz: Additions to the apparatus to illustrate the laws in mechanics, optics, and acoustics	do	18	468	1	1,200 00		
Magnetic battery and appliances	Submitted				400 00		
Self-registering meteorological apparatus	do				600 00		
Books of reference, text books, materials, and repairs	Appropriated.	18	468	1	800 00		
Compensation to mechanic	do				1,000 00		
Compensation to attendant	do				50 00		
Department of practical military engineering, viz: Mining material, profiling material, stationery, drawing material, repairs of instruments, and telegraphic material ..	do				200 00		
Department of French, viz: Text-books and stationery for use of instructors, and for printing examination papers	do				200 00		
Department of Spanish, viz: Text-books and stationery for use of instructors	do				40 00		
Department of drawing, viz: Frames, glass, and tar board for models	do				150 00		
Drawing boards, tables, and benches	do				75 00		
Paper, pencils, brushes, and colors, for use of instructors ..	do				30 00		
Department of law, viz: Stationery, text-books, and books of reference, for use of instructors	do				300 00		
Department of ordnance and gunnery, viz: Additions to models and drawings illustrating the course of instruction	do				300 00		
Electrical connection of instruments, galvanic batteries, and key board	Submitted				40 00		
Telegraph apparatus, connecting instrument house with targets, batteries, and observing stations	Appropriated.	18	468	1	100 00		
Fitting up and keeping in repair instrument and firing houses	do				60 00		
Books of reference and text-books for instructors	do				40 00		
Expenses of the board of visitors	do	R. S.	226	1327, 1329	4,500 00		
	Appropriated.	18	468	1			
NOTE.—In respect to expenses of the board of visitors, it is respectfully suggested that it would be expedient to prescribe a rate of mileage for members of the board.							
For an open shed, 100 feet long by 24 feet wide: Iron columns and tin roof for protection of field batteries, when not required for instruction of cadets	Submitted				1,200 00		
						\$73,689 00	\$68,680 00
<i>Miscellaneous Items and Incidental Expenses, Military Academy—</i>							
Gas-coal, oil, candles, wick, matches, &c., for lighting the academy, cadet barracks, mess hall, shops, hospital, offices, stables, and sidewalks	Appropriated.	18	468	1	4,000 00		
Water pipes, plumbing, and repairs	do				2,000 00		
Cleaning public buildings, (not quarters)	do				560 00		
Brooms, brushes, tubs, pails, soap, and cloth	do				200 00		
Chalk, crayons, sponge, slates, and rubbers, for section rooms	do				100 00		
Compensation to chapel organist	do				200 00		
Compensation of librarian	do				120 00		
Compensation of non-commissioned officer in charge of mechanics, &c.	do				50 00		
Compensation of soldier, writing in adjutant's office	do				50 00		
Pay of engineer of heating and ventilating apparatus for the academic building, the cadets' barracks, chapel, and philosophical academy, including the library	do				1,500 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Miscellaneous Items and Incidental Expenses, Military Academy—Continued.</i>							
Pay of assistant engineer of same.....	Appropriated.	18	468	1	\$840 00		
Pay of five firemen.....	do.....				2,200 00		
Increase and expense of library-books, magazines, and binding.....	do.....				2,000 00		
Pay of librarian's assistant.....	do.....				1,000 00		
Contingencies for superintendent of the Academy.....	do.....				1,000 00		
Furniture for cadets' hospital, and repairs.....	do.....				100 00		
Completing printing, and binding catalogue for the library.....	do.....				500 00		
Papers and periodicals for cadet hospital.....	do.....				60 00		
Furniture and carpeting for library.....	Submitted.....				900 00		
						\$17,380 00	\$18,560 00
NOTE.—The estimate submitted for buildings and grounds for the Military Academy will be found under the title of "Public Works," <i>post.</i>							
Total Military Establishment.....						33,697,178 50	28,331,070 00

NAVAL ESTABLISHMENT.

NAVAL ESTABLISHMENT

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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UNDER THE NAVY DEPARTMENT.							
GENERAL SERVICE.							
Pay of the Navy—							
Pay of commissioned and warrant officers at sea, on shore, on special service, and those on the retired list and unemployed, and for the actual expenses of officers travelling under orders; and for the pay of petty officers, seamen, ordinary seamen, landsmen, and boys, including men for the engineer's force, and for the coast-survey service, 8,500 men, at the pay prescribed by law	Jan. 18, 1875	R. S. 18	249 264 296	1417 1556, 1595 1	}	\$7,600,000 00	\$6,250,000 00
NOTE.—This is the amount made up by close computation and examination of the rolls by both the Fourth Auditor's office and the Navy Department. The appropriations for the last three years have been too small, to make the payments required by the provisions of existing laws. The deficit has only been made up by the balances of the appropriations for pay, available by law for this purpose; all these that can be legally used are now exhausted. (See Appendix, marked "E.")							
Contingent, Navy—							
Rent and furniture of buildings and offices not in navy yards; expenses of courts-martial and courts of inquiry, boards of investigation, examining boards, with clerks' and witnesses' fees, and travelling expenses and costs; stationery and recording; expenses of purchasing paymasters' offices at the various cities, including clerks, furniture, fuel, stationery, and incidental expenses; newspapers and advertising; foreign postage; telegraphing, foreign and domestic; copying; mail and express wagons, and livery and express fees, and freight; all books for the use of the Navy; experts' fees, and cost of suits; commissions, warrants, diplomas, and discharges; relief of vessels in distress, and pilotage; recovery of valuables from shipwrecks; quarantine expenses; care and transportation of the dead; reports, professional investigation, and information from abroad; and all other emergencies and extraordinary expenses arising at home or abroad, but impossible to be anticipated or classified	Appropriated.	R. S. 18	726 297	3666 1	}	125,000 00	100,000 00
Civil Establishment, Navy Yards and Stations—							
For the civil establishment at the various navy yards and stations	Appropriated.	18	297	1	.....	160,000 00	158,000 00
BUREAU OF NAVIGATION.							
Navigation and Navigation Supplies, Bureau of Navigation—							
Foreign and local pilotage and towage of ships-of-war	Appropriated.	R. S.	738	3709, 3747	} \$50,000 00		
		18	297	1			
Services and materials in correcting compasses on board ship, and for adjusting and testing compasses on shore	do.					3,000 00	
Nautical and astronomical instruments, nautical books, maps, charts, and sailing directions, and for repairs of nautical instruments for ships-of-war	do.					10,000 00	
Books for libraries for ships-of-war	do.					3,000 00	
Navy signals and apparatus, viz: Rockets, signal lights, and lanterns, including running lights, and for drawing and engraving for signal books	do.					6,000 00	
Compass fittings, including binnacles, tripods, and other appendages of ships' compasses	do.					5,000 00	
Logs and other appliances for measuring the ships' way; for leads and other appliances for sounding	do.					3,000 00	
Lanterns and lamps and their appendages for general use on board ship, including those for cabin, wardroom, steerage, holds, spirit room, and for deck, and for quartermaster's use	do.					5,000 00	
Bunting and other materials for flags, and for making and repairing flags of all kinds	do.					5,000 00	
Oil for ships-of-war other than that used in the engineer department; for candles, when used as a substitute for oil in binnacles and running lights; for chimneys and wicks; and for soap used in the navigation department	do.					20,000 00	
Stationery for commanders and navigators of ships-of-war, and for use of courts-martial	do.					2,000 00	
Musical instruments and music for ships-of-war	do.					1,000 00	
Steering signals and indicators, and for speaking tubes and gongs for signal communication on board ships-of-war	do.					2,500 00	
						115,500 00	115,500 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Contingent, Bureau of Navigation—</i>							
Freight and transportation, postage and telegraphing on public business, advertising for proposals, packing-boxes and materials, and all other contingent expenses.	Appropriated.	R. S. 18	726 297	3666 1	} -----	\$4,000 00	\$4,000 00
<i>Hydrographic Work, Bureau of Navigation—</i>							
Drawing, engraving, and printing and photo-lithographing charts; correcting old plates; preparing and publishing sailing directions, and other hydrographic information; and for making charts, including those of the Pacific coast	Appropriated.	R. S. 18	71 297	431-3 1	} \$60,000 00		
Fuel, lights, and office furniture; care of building and other labor; purchase of books for library, drawing materials, and other stationery; postage, freight, and other contingent expenses.	do				5,000 00		
Rent and repair of building	do				2,800 00		
						67,800 00	67,800 00
<i>Naval Observatory, Bureau of Navigation—</i>							
Three assistant observers, at \$1,500 each.	Appropriated.	R. S. 18	726 298	3666 1	} 4,500 00		
One clerk	do				1,800 00		
Wages of one instrument-maker, three watchmen, one messenger, and one porter; keeping grounds in order, and for repairs of buildings and enclosures; fuel, light, and office furniture; purchase of books for library, and chemicals for batteries; stationery, freight, and all other incidental expenses.	do				10,000 00		
Continuing theory and tables of the moon's motion.	Appropriated.	17	146	1	3,000 00		
Reducing and transcribing astronomical observations for publication	Appropriated.	18	298	1	2,200 00		
						21,500 00	20,500 00
<i>Nautical Almanac, Bureau of Navigation—</i>							
Pay of computers and clerk for preparing for publication the American Ephemeris and Nautical Almanac.	Appropriated.	R. S. 18	726 298	3666 1	} 20,000 00		
Rent, fuel, labor, stationery, boxes, expresses, and miscellaneous items	do				1,500 00		
Continuance of work on new planets discovered by American astronomers	do				3,000 00		
						24,500 00	24,500 00
<i>Purchase or Construction of Vessels, Bureau of Navigation—</i>							
Purchase or construction, under contract, and equipment of two three-masted schooners, for surveying in the Pacific.	Submitted.					60,000 00	
BUREAU OF ORDNANCE.							
<i>Ordnance and Ordnance Stores, Bureau of Ordnance—</i>							
Fuel, tools, and material of all kinds necessary in carrying on the current daily work of mechanical branches of the Ordnance department of the several navy yards, magazines, and stations	Appropriated.	R. S. 18	726 298	3666 3709, 3747 1	} 100,000 00		
Labor at the several navy yards, magazines, and stations in fitting ships for sea, and in preserving ordnance material.	do				250,000 00		
Necessary repairs to ordnance buildings, magazines, gun-parks, boats, lighters, wharves, machinery, and appendages	do				25,000 00		
NOTE.—For several years this appropriation has been so much reduced that the buildings and wharves, which are necessarily in exposed situations, are becoming much dilapidated.							
Miscellaneous items, to wit: Freight to foreign and home stations; advertising and auctioneers' fees; cartage and express charges; repairs to fire-engines; gas and water pipes; gas and water tax at magazines; toll, ferriage, foreign postage, telegrams, &c.	do				10,000 00		
NOTE.—This is based on the experience of several years, and is necessary for the efficiency of the service.							
Experiments in ordnance at naval experimental battery and navy yard, Washington	Appropriated.	17	549	1	15,000 00		
<i>Torpedo Corps, Bureau of Ordnance—</i>							
Purchase, manufacture, and preservation of gunpowder, nitro-glycerine, gun-cotton, &c	Appropriated.	R. S. 18	726 298	3666 3709, 3747 1	} 12,000 00		
Purchase and manufacture of electrical apparatus, galvanic batteries, and insulated wire	do				15,000 00		
						400,000 00	340,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Torpedo Corps, Bureau of Ordnance—Continued.</i>							
Purchase of copper, iron, wood, and other materials necessary for the manufacture of torpedoes, and for work on the same		R. S.	726	3666	} \$27,000 00		
.....	.....	R. S.	738	3709,			
.....	.....			3747			
Appropriated	.....	18	298	1			
Construction of torpedo boats, purchase of copper work, hulks, and contingent expenses	do				28,500 00		
Labor, including one chemist, pyrotechnist, electrician, one foreman machinist, and one writer	do				15,000 00		
Repairs to buildings and wharves, and material and labor for sea-wall	do				3,500 00		
Freight and express charges	do				1,000 00		
						\$102,000 00	\$93,000 00
<i>Contingent, Bureau of Ordnance—</i>							
Contingent expenses of the ordnance service of the Navy	Appropriated	18	298	1	.....	1,000 00	1,000 00
<i>Armament of Vessels, Bureau of Ordnance—</i>							
For the battery of the new sloop Trenton, and as a reserve:							
20 smooth-bore 11-inch guns, converted to 8-inch rifles, at \$2,700 each	Submitted				54,000 00		
20 carriages for same, at \$1,800 each	do				36,000 00		
For the armament of five double-turreted monitors, viz: Puritan, Monadnock, Miantonomah, Amphritite, and Terror, which are to be completed within this fiscal year:							
20 12-inch rifles, at \$15,000 each	do				300,000 00		
20 carriages, at \$6,000 each	do				120,000 00		
						510,000 00	
BUREAU OF EQUIPMENT AND RECRUITING.							
<i>Equipment of Vessels, Bureau of Equipment and Recruiting—</i>							
Coal for steamers' and ships' use, including transportation, storage, and labor; hemp, wire, hides, and other materials for the manufacture of rope; cordage, canvas, leather, and wood; iron for the manufacture of cables, anchors, and galleys; furniture, hose, bake-ovens, cooking and heating-stoves; life-rafts for monitors; tools; condensing and heating apparatus for receiving-ships, and boat-detaching apparatus; and for the payment of labor in equipping vessels and manufacture of articles in the several navy yards	.....	R. S.	738	3709,	}	1,500,000 00	1,250,000 00
.....	.....			3747			
.....	.....	18	298	1			
Appropriated	.....	18	298	1			
<i>Contingent, Bureau of Equipment and Recruiting—</i>							
Expenses of recruiting and fitting up receiving-ships; freight and transportation of stores; transportation of enlisted men; printing, advertising, telegraphing, books and models, stationery, express charges; internal alterations, fixtures, and appliances in the equipment buildings at navy yards; foreign postages, ferriages, and car tickets; apprehension of deserters, assistance to vessels in distress, continuous-service certificates and good-conduct badges for enlisted men, including purchase of school-books for training ships	.....	R. S.	726	3666	}	100,000 00	75,000 00
.....	.....	18	299	1			
.....							
Appropriated	.....	18	299	1			
<i>Enlistment of Boys, Bureau of Equipment and Recruiting—</i>							
Pay of five hundred boys recommended to be enlisted for training, at average pay of \$120 per annum	Submitted				.....	60,000 00	
BUREAU OF YARDS AND DOCKS.							
<i>Maintenance of Yards and Docks, Bureau of Yards and Docks—</i>							
General maintenance of yards and docks: Freights and transportation of materials and stores; printing, stationery, and advertising, including the commandant's offices; books, maps, and models and drawings; purchase and repair of fire-engines; machinery and patent right to use the same; repairs of steam-engines and attendance on the same; purchase and maintenance of oxen, horses, and driving-teams; carts and timber wheels for navy-yard purposes; tools and repairs of the same; postage on letters and other mailable matter on public service, and telegrams; furniture for Government houses and offices in navy yards; coal and other fuel; candles, oils, and gas; cleaning and clearing up yards, and care of public buildings; attendance on fires, lights, fire-engines, and apparatus; incidental labor at navy yards; water tax; tolls and ferriages; pay of watchmen in navy yards; awnings and packing-boxes for Bureau of Yards and Docks' purposes	.....	R. S.	726	3666	}	860,000 00	760,000 00
.....	.....	18	299	1			
.....							
Appropriated	.....	18	299	1			
<i>Contingent, Bureau of Yards and Docks—</i>							
For contingent expenses that may arise at navy yards and stations	Appropriated	18	299	1	.....	50,000 00	40,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Naval Asylum, Philadelphia, Bureau of Yards and Docks—</i>							
Superintendent	Appropriated	18	299	1	\$600 00		
Steward	do.				480 00		
Matron	do.				360 00		
Cook	do.				240 00		
Assistant cook	do.				168 00		
Chief laundress	do.				192 00		
Three laundresses, at \$168 each	do.				504 00		
Eight scrubbers and waiters, at \$168 each	do.				1,344 00		
Six laborers, at \$240 each	do.				1,440 00		
Stable-keeper and driver	do.				360 00		
Master-at-arms	do.				450 00		
Corporal	do.				300 00		
Barber	do.				360 00		
Carpenter	do.				845 00		
Water rent and gas	do.				1,900 00		
Cemetery headstones, digging graves, &c	do.				450 00		
Repairs of buildings and improving grounds	do.				2,000 00		
Ice and car tickets	do.				450 00		
Furniture and repairs of same	do.				500 00		
Support of beneficiaries	do.				45,204 00		
						\$58,177 00	\$52,973 00
NOTE.—The expenses of the naval asylum to be paid from income of the navy pension fund, in compliance with provisions of act of March 1, 1869, (15 Stats., 277.)							
BUREAU OF MEDICINE AND SURGERY.							
<i>Surgeons' Necessaries, Bureau of Medicine and Surgery—</i>							
Support of the medical department of the Navy; for ves-	.....	R. S.	738	3709,	}	40,000 00	30,000 00
sels in commission, navy yards, naval stations, Marine				3747			
Corps, and Coast Survey.....	Appropriated	18	299	1			
<i>Repairs and Improvements, Bureau of Medicine and Surgery—</i>							
Repairs to naval laboratory, naval hospitals, and append-							
ages, including roads, wharves, out-houses, sidewalks,							
fences, gardens, farms, cemeteries, steam-heating appa-							
ratus, furniture, head-marks for graves in cemeteries,							
&c.....	Appropriated	18	299	1		20,000 00	20,000 00
<i>Civil Establishment, Bureau of Medicine and Surgery—</i>							
Maintenance of the several naval hospitals and naval							
laboratory	Appropriated	18	299	1		50,000 00	35,000 00
<i>Contingent, Bureau of Medicine and Surgery—</i>							
Contingent expenses of the bureau; for freight on medi-							
cal stores; transportation of insane patients; adver-							
tising; telegraphing; purchase of books; expenses							
attending the naval medical examining boards; pur-							
chase and repair of wagons and harness; purchase of							
cows and horses, and feed for same; purchase of trees,							
seeds, garden tools, fuel, &c.....	Appropriated	R. S.	726	3666	}	25,000 00	25,000 00
		18	300	1			
BUREAU OF PROVISIONS AND CLOTHING.							
<i>Provisions for the Navy, Bureau of Provisions and Clothing—</i>							
Provisions for officers, seamen, and marines, viz: 8,500							
men, 900 commissioned officers, and 1,200 marine offi-							
cers and privates; and for expenses incidental to the							
preservation and handling of provisions.....	Appropriated	R. S.	738	3709,	}	1,244,000 00	
		18	300	3747			
Purchase of water for ships	do.			1		35,000 00	
						1,279,000 00	1,279,000 00
<i>Contingent, Bureau of Provisions and Clothing—</i>							
Candles; for fuel; for books and blanks; for stationery;							
for telegrams and express charges; for tolls, ferriages,							
and car tickets; for ice; and for incidental labor not							
chargeable to other appropriations.....	Appropriated	R. S.	726	3666	}	60,000 00	50,000 00
		18	300	1			
NOTE.—Prior to the fiscal year 1874-75, the annual appropriation under Contingent, Bureau of Provisions and Clothing, was \$75,000; and it is found, by the experience of the past year, that a smaller sum than the above estimate is inadequate to the wants of the service.							
BUREAU OF CONSTRUCTION AND REPAIR.							
<i>Construction and Repair, Bureau of Construction and Repair—</i>							
Preservation of vessels on the stocks and in ordinary;							
purchase of materials and stores of all kinds; labor in							
navy yards and on foreign stations; preservation of							
material; purchase of tools; wear, tear, and repair of							
vessels afloat, and general maintenance of the Navy;							
incidental expenses, advertising, and foreign postages.)	Appropriated	R. S.	726	3666	}	3,300,000 00	3,300,000 00
		R. S.	738	3709,			
		18	300	3747			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Protection of Timber Lands, Bureau of Construction and Repair—</i> Salaries of sub-agents and watchmen, and miscellaneous expenses.....	Appropriated.	R. S. 18	726 300	3666 1	\$5,000 00	\$5,000 00	
<i>Building and Repairs of Vessels, Bureau of Construction and Repair—</i> Repairing the Puritan and Dictator.....	Submitted				\$300,000 00		
Repairing and fitting six school-ships for boys, to be turned over to States, as per act of Congress, approved June 20, 1874.....	do				300,000 00		
Building two iron rams.....	do				300,000 00		
BUREAU OF STEAM ENGINEERING.						900,000 00	
<i>Steam Machinery, Bureau of Steam Engineering—</i> Repairs and preservation of machinery, boilers, &c., on all naval vessels	Appropriated.	R. S. 18	726 300	3666 1	1,150,000 00		
Fitting, repairs, and preservation of machinery and tools in the several navy yards.....	do				50,000 00		
Labor in navy yards and stations not included above, and incidental expenses	do				100,000 00		
Purchase and preservation of oils, coals, metals, and all materials and stores	do				500,000 00		
Construction of new boilers for the Shenandoah, Wachusett, Alaska, Benicia, Wabash, Lancaster, and Juniata..	Submitted				400,000 00	2,200,000 00	1,800,000 00
NAVAL ACADEMY.							
<i>Pay, Naval Academy—</i> Pay of professors and others: One professor of drawing, (head of department). \$2,500 00 One professor of English studies, history, and law, (head of department) 00 Three professors, viz: One of mathematics, one of chemistry, and one of French, (assistants,) at \$2,200 each 6,600 00 Twelve assistant professors, viz: Four of French; one of Spanish; three of English studies, history, and law; one of mathematics; one of astronomy; and two of drawing, at \$1,800 each 21,600 00 Sword-master, at \$1,500, and two assistants, at \$1,000 each 3,500 00 Boxing-master and gymnast..... 1,200 00 Assistant librarian..... 1,400 00 Three clerks to superintendent, at \$1,200, \$1,000, and \$800 each 3,000 00 One clerk to commandant of cadets..... 1,200 00 One clerk to paymaster 1,000 00 One apothecary..... 750 00 One commissary, at \$288; one cook, at \$325 50; and messenger to superintendent, at \$600 ... 1,213 50 One armorer, at \$529 50; gunner's mate, at \$469 50; and quarter-gunner, at \$409 50 1,408 50 One coxswain, at \$469 50; and three seamen in the department of seamanship, at \$349 50 each 1,518 00 One band-master, at \$528, and 18 first-class musicians, at \$348 each 6,792 00 Seven second-class musicians, at \$300 each; two 'drummers and one fifer, (first-class,) at \$348 each 3,144 00 Excess over amount appropriated for current fiscal year, \$200. NOTE.—This excess is occasioned by an increase of pay of two hundred dollars per annum, recommended for the clerk to the commandant of cadets. Pay of watchmen and others: Captain of the watch, at \$2 50 per diem \$912 50 Four watchmen, at \$2 25 per diem each..... 3,285 00 Foreman of the gas and steam-heating works of the Academy, at \$5 per diem 1,825 00 Ten attendants at gas and steam-heating works; one at \$3 50, one at \$3, and eight at \$2 50 per diem each 9,672 00 Three joiners, two painters, and two masons, at \$3 50 per diem each..... 8,942 50 One tinner, one gas-fitter, and one blacksmith, at \$3 50 per diem each..... 3,832 50 One assistant to foreman of gas and steam-heating works, at \$1 per day. 365 00 Excess over amount appropriated for fiscal year ending June 30, 1876, \$365. NOTE.—This excess is occasioned by recommendation of an assistant to foreman of gas and steam-heating works.	Appropriated.	18	300	1	59,326 00		
	do				28,834 50		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay, Naval Academy—Continued.</i>							
Pay of mechanics and others:							
One mechanic at workshop, at \$2 25 per diem.	\$821 25						
One master laborer, to keep public grounds in order, at \$2 28 per diem	832 20						
Fourteen laborers to assist in same, three at \$2 and eleven at \$1 75 per diem each	9,216 25						
One laborer to superintend quarters of cadets, public grounds, &c., at \$2 28 per diem	832 20						
Four attendants, one at chapel, and three at recitation rooms, library, and offices, at \$20 per month each	960 00						
Twenty servants to keep in order and attend to cadet quarters, public buildings, &c., at \$20 per month each	4,800 00						
Appropriated.	18	300	1	\$17,461 90			
Pay in department of steam enginery:							
One machinist, at \$3 50 per diem	1,277 50						
One machinist, at \$3 per diem	1,095 00						
One blacksmith, at \$3 50 per diem	1,277 50						
One boiler-maker, at \$3 50 per diem	1,277 50						
One pattern-maker, at \$3 50 per diem	1,277 50						
One moulder, at \$3 50 per diem	1,277 50						
Two laborers, at \$1 75 per diem each	1,277 50						
do.					8,760 00		
						\$114,382 40	\$113,817 90
<i>Repairs and Improvements, Naval Academy—</i>							
Necessary repairs of public buildings, pavements, wharves, and walls enclosing the grounds of the academy, for improvements of the same, and for furniture, fixtures, &c.	Appropriated.	18	300,'94	1	24,000 00		
A wing additional to the quarters of the cadets, for the improvement of the sanitary condition of the building, and for the more comfortable accommodation of the cadets	do.				50,000 00		
						74,000 00	24,000 00
<i>Heating and Lighting, Naval Academy—</i>							
Fuel for heating and lighting the academy and schoolships	Appropriated.	18	301	1		15,000 00	15,000 00
<i>Contingent Expenses, Naval Academy—</i>							
Purchase of books for the library	Appropriated.	18	301	1	1,500 00		
Stationery, blank books, models, maps, &c., and for textbooks for use of instructors	do.				2,000 00		
Expenses of the board of visitors	do.				2,600 00		
Purchase of chemicals, apparatus, and instruments in the department of physics and chemistry, and for repairs of the same	do.				2,500 00		
Purchase of gas and steam machinery, steam-pipe and fixtures, rent of building for use of the academy, freight, cartage, wa er, music, musical and astronomical instruments, uniforms for the bandsmen, telegraphing, and for the current expenses and repairs of all kinds, and for incidental labor and expenses not applicable to any other appropriation	do.				34,600 00		
Stores in the department of steam enginery	do.				800 00		
Materials for repairs in steam machinery	do.				1,000 00		
						45,000 00	41,600 00
MARINE CORPS.							
<i>Pay, Marine Corps—</i>							
1 brigadier general commandant		R. S.	271	1596,	5,500 00		
1 colonel				1623	4,500 00		
2 lieutenant colonels	June 30, 1834	4	713	4, 5	8,000 00		
1 lieutenant colonel, (retired)	Mar. 2, 1847	9	155	3	3,000 00		
1 adjutant and inspector, 1 quartermaster, and 1 paymaster	Aug. 5, 1854	10	586	1			
	Feb. 21, 1857	11	163	1	10,500 00		
4 majors	July 17, 1862	12	594	2	13,750 00		
2 majors, (retired)	June 30, 1864	13	144	1	4,875 00		
20 captains	Mar. 3, 1865	13	487	1	46,800 00		
2 assistant quartermasters	July 28, 1866	14	334	13	5,200 00		
1 assistant quartermaster, (retired)	July 28, 1866	14	337	37	2,100 00		
4 captains, (retired)	Mar. 2, 1867	14	422	1	6,075 00		
30 first lieutenants	Mar. 2, 1867	14	517	7	53,250 00		
1 first lieutenant, (retired)	July 15, 1870				1,125 00		
30 second lieutenants	Navy Reg's				44,100 00		
2 second lieutenants, (retired)	July 18, 1816				2,100 00		
1 leader of the band	Jan. 18, 1875	18	301	1	948 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay, Marine Corps—Continued.</i>		R. S.	271	1596, 1623			
1 apothecary	June 30, 1834	4	713	4, 5	\$750 00		
1 sergeant major, 1 quartermaster sergeant, and 1 drum major	Mar. 2, 1847	9	155	3			
50 first sergeants	Aug. 5, 1854	10	586	1	1,080 00		
140 sergeants	Feb. 21, 1857	11	163	1	16,200 00		
180 corporals	July 17, 1862	12	594	2	31,560 00		
30 musicians of the band	June 30, 1864	13	144	1	35,400 00		
96 drummers and fifers	Mar. 3, 1865	13	487	1	9,996 00		
1,500 privates	July 28, 1866	14	334	13	17,736 00		
10 clerks and 2 messengers, (civil force)	July 28, 1866	14	337	37	270,000 00		
Payments to discharged soldiers for clothing undrawn	Mar. 2, 1867	14	422	1	10,000 00		
Transportation of officers travelling without troops	Mar. 2, 1867	14	517	7	20,000 00		
	July 15, 1870				5,000 00		
	Navy Reg's						
	July 18, 1816						
	Jan. 18, 1875	18	301	1		\$629,545 00	\$624,760 00
NOTE.— This estimate exhibits an increase of \$4,785 over the sum appropriated for the present fiscal year, being for the pay of one first lieutenant placed on the retired list, and an addition of ten per cent. to the pay of officers for five years' service, under the act of July 15, 1870.							
<i>Provisions, Marine Corps—</i>		R. S.	738	3709, 3747			
1,200 non-commissioned officers, musicians, privates, and washerwomen; 365 days, one ration per day, 438,000, at 23 cents per day	Appropriated.	18	301	1		100,740 00	100,000 00
<i>Clothing, Marine Corps—</i>		R. S.	738	3709, 3747			
2,000 non-commissioned officers, musicians, and privates, at \$39 68 per annum, (actual cost, per contracts 1874, 1875,) is \$79,360; and 1,000 watch coats, at \$9 51 each, is in all, \$88,870	Appropriated.	18	301	1		88,870 00	100,000 00
<i>Fuel, Marine Corps—</i>		R. S.	738	3709, 3747			
4,408 cords of wood, as follows: For one brigadier general, one colonel, two lieutenant colonels, four majors, three staff majors, twelve captains, two staff captains, thirty first and second lieutenants, fourteen hundred non-commissioned officers, musicians, privates, and washerwomen; six hospitals, one armory, seven mess-rooms for officers, sixteen offices for commandant and staff and commanding officers at posts, eight rooms for officers of the day, ten guard-rooms at barracks and navy yards, three clothing and other supply stores; one-fourth additional on 2,400 cords, quantity supposed to be required in latitude north 36 degrees, from October 1 to April 30, 600 cords, amounting in all to 4,408 cords, which, at \$6 50 per cord, is	Appropriated.	18	302	1		28,652 00	30,856 00
<i>Military Stores, Marine Corps—</i>		R. S.	738	3709, 3747			
Pay of mechanics, repair of arms, purchase of accoutrements, ordnance stores, flags, drums, fifes, and other instruments	Appropriated.	18	302	1		9,000 00	9,000 00
<i>Transportation and Recruiting, Marine Corps—</i>		R. S.	738	3709, 3747			
Transportation of troops and for expenses of recruiting	Appropriated.	18	302	1		5,000 00	5,000 00
<i>Repairs of Barracks, Marine Corps—</i>		R. S.	738	3709, 3747			
For repairs of barracks, and for rent of offices where there are no public buildings	Appropriated.	18	302	1		15,000 00	10,000 00
<i>Quarters for Officers, Marine Corps—</i>		R. S.	738	3709, 3747			
Hire of quarters for officers, where there are no public buildings	Appropriated.	18	302	1		16,000 00	16,000 00
<i>Forage for Horses, Marine Corps—</i>		R. S.	738	3709, 3747			
Forage for public horses, and the authorized number of officers' horses	Appropriated.	18	302	1		6,000 00	5,000 00
<i>Contingent, Marine Corps—</i>		R. S.	726	3666			
Freight, ferriage, toll, cartage, purchase and repair of boats, per diem for constant labor, funeral expenses of marines, stationery, telegraphing, apprehension of deserters, oil, gas, candles, repair of gas and water fixtures, water rent, barrack furniture, furniture for Government houses and offices, packing-boxes, bed-sacks, wrapping paper, oil-cloth, crash, rope, twine, carpenters' tools, tools for police purposes, purchase of fire-extinguishers, purchase and repair of hose, repairs to public carryall, purchase and repair of harness, purchase and repair of handcarts and wheelbarrows, purchase and repair of cooking-stoves, ranges, &c.; stoves, where there are no grates; gravel, &c., for parade grounds; repair of pumps, and for other purposes	Appropriated.	18	302	1		26,000 00	20,000 00
Total Naval Establishment						20,871,666 40	17,011,306 90

INDIAN AFFAIRS.

INDIAN AFFAIRS

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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UNDER THE DEPARTMENT OF THE INTERIOR.							
INDIAN SERVICE, CURRENT AND CONTINGENT EXPENSES.							
Pay of Superintendents and Agents—							
Superintendents:							
Pay of two superintendents of Indian affairs for the Central and Northern superintendencies, at \$2,000 each...	Mar. 3, 1875	R. S. 18	362 421	2046-7 1	\$4,000 00		
Agents:							
Pay of seventy agents in the Indian service, at \$1,500 each, except the one for Iowa, at \$500, namely:							
Six for the tribes in Oregon, viz: Warm Springs, Klamath, Grand Ronde, Siletz, Umatilla, and Malheur agencies	Mar. 3, 1875	R. S. 18	363 421	2055 1	9,000 00		
Five for the tribes in Washington Territory, viz: Neah Bay, Yakama, Colville, Nisqually, and S'Kokomish agencies	do				7,500 00		
Three for the tribes in California, viz: Hoopa Valley, Round Valley, and Tule River agencies	do				4,500 00		
Two for the tribes in Nevada, viz: Pi Ute, and Walker River and Pyramid Lake agencies	do				3,000 00		
Two for the tribes in Idaho, viz: Nez Percé and Fort Hall agencies	do				3,000 00		
Four for the tribes in Montana, viz: Flathead, Blackfeet, Crow, and Fort Peck agencies	do				6,000 00		
Twelve for the tribes in Dakota, viz: Red Cloud, Spotted Tail, Yankton, Ponca, Crow Creek, Grand River, Cheyenne River, Fort Berthold, Sisseton, Devil's Lake, Black Hills, and White River agencies	do				18,000 00		
One for the tribes in Wyoming, viz: Shoshone agency	do				1,500 00		
One for the tribes in Utah, viz: Uintah Valley agency	do				1,500 00		
Five for the tribes in New Mexico, viz: Pueblo, Abiquin, Navajo, Mescalero Apache, and Southern Apache agencies	do				7,500 00		
Two for the tribes in Colorado, viz: Los Pinos and White River agencies	do				3,000 00		
Six for the tribes in Nebraska, viz: Great Nemaha, Omaha, Winnebago, Pawnee, Otoe, and Santee agencies	do				9,000 00		
One for the tribes in Kansas	do				1,500 00		
Seven for the tribes in the Indian Territory, viz: Sac and Fox, Quapaw, Osage, Kiowa and Comanche, Cheyenne and Arapahoe, Wichita and Union agencies	do				10,500 00		
One for the tribes in Minnesota, viz: At the White Earth agency	do				1,500 00		
One for the tribes in Iowa, viz: At the Sac and Fox of Iowa agency	do				500 00		
Two for the tribes in Wisconsin, viz: At the Green Bay and La Pointe agencies	do				3,000 00		
One for the tribes in Michigan, viz: At the Mackinac agency	do				1,500 00		
One for the New York Indians, viz: At the New York agency	do				1,500 00		
Seven for the tribes in Arizona, viz: Colorado River, Papago, Pima, and Maricopa, Chiricahui, San Carlos, Camp Apache, and Moquis Pueblo agencies	do				10,500 00		
						\$108,000 00	\$108,000 00
Pay of Special Agents—							
Pay of seven special agents, at \$1,500 each, viz:							
One for the Chippewas at Red Lake; one for the Pillagers at Leech Lake, Minnesota; one for the Mission Indians in California; one for the Assinaboines and Gros Ventres at Fort Belknap, Montana; one for the tribes in Oregon, viz: Alsea; and two for the tribes in Washington Territory, viz: Tulalip and Qui-nai-elt...	Mar. 3, 1875	R. S. 18	363 421	2055, 2067 1	10,500 00		
Also for pay of one special agent, at \$1,500 per annum, for the Lemhi agency, Idaho	Submitted				1,500 00		
						12,000 00	10,500 00
Pay of Clerks to Superintendents—							
Pay of one chief clerk, \$1,600; one assistant clerk, \$1,200; and one copyist, \$600, for the Central superintendency.	Mar. 3, 1875	R. S. 18	363 422	2051 1	3,400 00		
Pay of clerk for the Northern superintendency	do				1,200 00		
						4,600 00	4,600 00
Pay of Interpreters—							
Pay of seventy-nine interpreters, as follows:							
Seven for the tribes in Oregon, viz: One each for the Klamath, Grand Ronde, Siletz, Umatilla, Warm Spring, and Malheur agencies, and one for the Alsea special agency, at \$500 per annum each	Mar. 3, 1875	R. S. 18	364 422	2068, 2070 1	3,500 00		
Six for the tribes in Washington Territory, to be assigned to such agencies as the Secretary of the Interior may direct, at \$500 each per annum	do				3,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Pay of Interpreters—Continued.</i>							
Two for the tribes in Idaho, namely, at Nez Percé and Fort Hall agencies, at \$500 per annum each	Mar. 3, 1875	R. S. 18	364 422	2068, 2070 1	\$1,000 00		
Three for the tribes in Nevada, namely, at Pi Ute and Walker River, and Pyramid Lake agencies, at \$500 per annum each	do				1,500 00		
Five for the tribes in Montana, namely: Flathead, Blackfeet, Crow, and Fort Peck agencies, and Fort Belknap special agency, at \$400 per annum each	do				2,000 00		
Thirteen for the tribes in Dakota, namely: Two at Fort Berthold, and one each at Red Cloud, Spotted Tail, Yankton, Ponca, Crow Creek, Standing Rock, Cheyenne River, Sisseton, Devil's Lake, Black Hills, and White River agencies, at \$400 per annum each	do				5,200 00		
One for the tribes in Wyoming, at the Shoshone agency, at \$500 per annum	do				500 00		
One for the tribes in Utah, at \$500 per annum	do				500 00		
Seven for the tribes in New Mexico, namely: Two for the Navajo agency, and one each for the Cimarron, Mescalero Apache, Southern Apache, Pueblo, and Abiquin agencies, at \$500 per annum each	do				3,500 00		
Two for the tribes in Colorado, namely: Los Pinos and White River agencies, at \$500 per annum each	do				1,000 00		
Seven for the tribes in Nebraska, to be assigned to such agencies as the Secretary of the Interior may direct, at \$400 per annum each	do				2,800 00		
For the tribes in Kansas, \$500, to enable the Secretary of the Interior to supply temporary interpreters	do				500 00		
Eight for the tribes in the Indian Territory, to be assigned as the Secretary of the Interior may direct, at \$400 per annum each, and \$600, or so much thereof as may be necessary, to enable the Secretary of the Interior to supply temporary interpreters for the semi-civilized tribes	do				3,800 00		
Three for the tribes in Wisconsin, namely: One for the Green Bay, and two for the La Pointe agency, at \$400 per annum each	do				1,200 00		
Four for the tribes in Minnesota, namely: Boise Fort, White Earth agencies, and Red Lake and Leech Lake special agencies, at \$400 per annum each	do				1,600 00		
Two for the tribes in Michigan, namely: Mackinac agency, at \$400 per annum each	do				800 00		
Seven for the tribes in Arizona, namely: Colorado River, Pima and Maricopa, Moquis Pueblo, Chiricahui, San Carlos, Papago, and Camp Apache agencies, at \$400 per annum each	do				2,800 00		
One for the Lemhi agency, Idaho, at \$500	Submitted				500 00		
						\$35,700 00	\$35,200 00
<i>Pay of Indian Inspectors—</i>							
Pay of three Indian inspectors, at \$3,000 per annum each	Mar. 3, 1875	R. S. 18	362 422	2043, 2044 1	9,000 00		9,000 00
<i>Travelling Expenses of Indian Inspectors—</i>							
Necessary travelling expenses of three Indian inspectors	Mar. 3, 1875	R. S. 18	362 423	2044 1	6,000 00		6,000 00
<i>Buildings at Agencies and Repairs—</i>							
Buildings at agencies and repairs of the same	Appropriated.	18	423	1	20,000 00		10,000 00
<i>Vaccination of Indians—</i>							
Vaccine matter and vaccination of Indians	Appropriated.	18	423	1	1,000 00		500 00
<i>Presents and Provisions for Indians—</i>							
Presents to and provisions for Indians	Appropriated.	18	148	1	5,000 00		
<i>Contingencies, Indian Department—</i>							
Contingencies of the Indian service, including travelling, incidental, current, and contingent expenses of the superintendents and agents, and of their offices	Appropriated.	R. S. 18	365 423	2076, 2077 1	50,000 00		30,000 00
FULFILLING TREATIES WITH INDIAN TRIBES.							
<i>Fulfilling Treaties with Apaches, Kiowas, and Comanches—</i>							
Ninth of thirty instalments, as provided to be expended under the tenth article of treaty of October twenty-first, eighteen hundred and sixty-seven, concluded at Medicine Lodge Creek, in Kansas, with the Kiowas and Comanches, and, under the third article of treaty of the same date, with the Apaches.	Oct. 21, 1867 Oct. 21, 1867	15 15	584 590	Art. 10 3	30,000 00		
Purchase of clothing, as provided in the same treaties	Same treaties				26,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fulfilling Treaties with Apaches, Kiowas, and Comanches—Continued.</i>							
Pay of carpenter, farmer, blacksmith, miller, and engineer {	Oct. 21, 1867	15	584	10	} \$5,200 00	\$73,700 00	\$67,700 00
Pay of physician and teacher.....	Oct. 21, 1867	15	590	3			
Transportation of goods.....	Same treaties				2,500 00		
	do.....				10,000 00		
<i>Fulfilling Treaties with Assinaboines—</i>							
This amount, to be expended in such goods, provisions, and other articles as the President may, from time to time, determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employes, educating children, procuring medicine, and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians; and in any other respect to promote their comfort, civilization, and improvement.....	Appropriated.	18	424	1		30,000 00	30,000 00
<i>Fulfilling Treaties with Blackfeet, Bloods, and Piegans—</i>							
This amount, to be expended in such goods, provisions, and other articles as the President may, from time to time, determine, including transportation thereof; in instructing in agriculture and mechanical pursuits; in providing employes, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians; and in every other respect to promote their civilization, comfort, and improvement.....	Appropriated.	18	424	1		50,000 00	50,000 00
<i>Fulfilling Treaties with Cheyennes and Arapahoes—</i>							
Ninth of thirty instalments, provided to be expended under the tenth article of treaty of October twenty-eighth, eighteen hundred and sixty-seven.....	Oct. 28, 1867	15	596	10	20,000 00	52,200 00	47,200 00
Purchase of clothing, as per same article.....	do.....				14,500 00		
Pay of physician and teacher, as per thirteenth article of same treaty.....	Oct. 28, 1867	15	597	13	2,500 00		
Pay of carpenter, farmer, blacksmith, miller, and engineer, as per same article.....	do.....				5,200 00		
Transportation of goods for the Cheyennes and Arapahoes.	Appropriated	18	424	1	10,000 00		
<i>Fulfilling Treaties with Chickasaws—</i>							
Permanent annuity in goods..... {	Feb. 25, 1799	1	619	1	} -----	3,000 00	3,000 00
	Apr. 28, 1866	14	774	10			
<i>Fulfilling Treaties with Chippewas, Boise Fort Band—</i>							
Eleventh of twenty instalments, for the support of one blacksmith and assistant, and for tools, iron and steel, and other articles necessary for the blacksmith shop, as per third article of treaty of April seventh, eighteen hundred and sixty-six.....	April 7, 1866	14	766	3	1,500 00	15,100 00	15,100 00
Eleventh of twenty instalments, for the support of one school teacher, and for the necessary books and stationery, as per same article of same treaty.....	do.....				800 00		
Eleventh of twenty instalments, for the instruction of Indians in farming and purchase of seeds, tools, and so forth, as per same article of same treaty.....	do.....				800 00		
Eleventh of twenty instalments of annuity, in money, to be paid per capita, as per same article of same treaty.....	do.....				3,500 00		
Eleventh of twenty instalments of annuity, in provisions, ammunition, and tobacco, as per same article of same treaty.....	do.....				1,000 00		
Eleventh of twenty instalments of annuity, in goods and other articles, as per same article of same treaty.....	do.....				6,500 00		
Transportation and necessary cost of delivery of annuity goods and provisions, as per same article of same treaty.....	do.....				1,000 00		
<i>Fulfilling Treaties with Chippewas of Lake Superior—</i>							
Last of twenty instalments, for the seventh smith and assistant, and support of shops, per second and fifth articles of treaty of September thirtieth, eighteen hundred and fifty-four.....	Sept. 30, 1854	10	1111	2-5	1,060 00		
Support of smith and shop, during the pleasure of the President, as per twelfth article of treaty of September thirtieth, eighteen hundred and fifty-four, and seventh article of treaty of April seventh, eighteen hundred and sixty-six.....	Sept. 30, 1854	10	1112	12	} 600 00		
	April 7, 1866	14	766	7			
Support of two farmers, during the pleasure of the President, as per same articles of same treaties.....	Same treaties				1,200 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Chippewas of Lake Superior—Continued.</i>							
This amount, or so much thereof as may be necessary, for the support and civilization of the Chippewas of Lake Superior, to be expended for agricultural and educational purposes, pay of clerk, and necessary employes, purchase of goods and provisions, and for transporting the same, and for such other purposes as may be deemed for the best interests of said Indians.	Appropriated.	18	425	1	\$20,000 00	\$22,860 00	\$17,860 00
<i>Fulfilling Treaties with Chippewas of the Mississippi—</i>							
Last of ten instalments of the second series, in money, per fourth article of treaty of October fourth, eighteen hundred and forty-two, and eighth article of treaty of September thirtieth, eighteen hundred and fifty-four, and third article of treaty of May seventh, eighteen hundred and sixty-four	Oct. 4, 1842 Sept. 30, 1854 May 7, 1864	7 10 13	592 1111 694	4 8 3	4,166 67		
Last of ten instalments of the second series, for the pay of two carpenters, as per same articles of same treaties.	Same treaties.				400 00		
Last of ten instalments of the second series, in goods, per same articles of same treaties.	do.				3,500 00		
Last of ten instalments of the second series, for support of schools, per same articles of same treaties.	do.				666 67		
Last of ten instalments of second series, for the purchase of provisions and tobacco, per same articles of same treaties.	do.				667 67		
Last of ten instalments of the second series, for the support of two smiths' shops, including the pay of two smiths and assistants, and furnishing iron and steel, per same articles and treaties.	do.				667 67		
Last of ten instalments of the second series, for pay of two farmers, per third article of treaty of May seventh, eighteen hundred and sixty-four.	May 7, 1864	13	694	3	333 33		
Thirtieth of forty-six instalments, to be paid to the Chippewas of the Mississippi, per third article of treaty of August second, eighteen hundred and forty-seven, and third article of treaty of March nineteenth, eighteen hundred and sixty-seven	Aug. 2, 1847 Mar. 19, 1867	9 16	904 548	3 3	1,000 00		
Second of ten instalments of annuity, in money, last series, per third article of treaty of February twenty-second, eighteen hundred and fifty-five, and third article of treaty of eighteen hundred and sixty-four.	Feb. 22, 1855 May 7, 1864	10 13	1167 694	3 3	20,000 00		
Ninth of ten instalments, for the support of a school or schools upon said reservation, in accordance with third article of treaty of March nineteenth, eighteen hundred and sixty-seven	Mar. 19, 1867	16	719	3	4,000 00		
Ninth of ten instalments, to be expended in promoting the progress of the people in agriculture, and assisting them to become self-sustaining, in accordance with the same article and treaty	do.				6,000 00		
Ninth of ten instalments, for the support of a physician, in accordance with the same article and same treaty	do.				1,200 00		
Ninth of ten instalments, for the purchase of necessary medicines, in accordance with third article of treaty of March nineteenth, eighteen hundred and sixty-seven	do.				300 00		
Transportation and necessary cost of delivery of annuities and provisions for the Chippewas of Mississippi, in accordance with the sixth article of treaty of March nineteenth, eighteen hundred and sixty-seven	Mar. 19, 1867	16	719	6	2,000 00	44,902 01	44,902 01
<i>Fulfilling Treaties with Chippewas, Pillagers and Lake Winnebagoish Bands—</i>							
Twenty-second of thirty instalments of annuity, in money, per third article of treaty of February twenty-second, eighteen hundred and fifty-five	Feb. 22, 1855	10	1168	3	10,666 66	25,166 66	25,166 66
Twenty-second of thirty instalments of annuity, in goods, per third article of same treaty	do.				8,000 00		
Twenty-second of thirty instalments, for purposes of utility, per third article of same treaty	do.				4,000 00		
Second of ten instalments, last series, for purposes of education, per third article of same treaty, and per third article of treaty of May seventh, eighteen hundred and sixty-four	May 7, 1864	13	694	3	2,500 00		
<i>Fulfilling Treaties with Chippewas of Red Lake and Pembina Tribe of Chippewas—</i>							
This amount, as annuity, to be paid per capita to the Red Lake band of Chippewas, during the pleasure of the President, per third article of treaty of October second, eighteen hundred and sixty-three, and second article of supplementary treaty of April twelfth, eighteen hundred and sixty-four	Oct. 2, 1863 April 12, 1864	13 13	668 689	3 2	10,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Chippewas of Red Lake and Pembina Tribe of Chippewas—Continued.</i>							
This amount to the Pembina band of Chippewas, per same article of same treaties	Oct. 2, 1863	13	668	3	} \$5,000 00		
Thirteenth of fifteen instalments, for the purpose of supplying the Red Lake band of Chippewas with gilling-twine, cotton maitre, calico, linsey, blankets, sheeting, flannels, provisions, farming tools, and for such other useful articles and for such other and useful purposes as may be deemed for their best interests, per third article of supplementary treaty of April twelfth, eighteen hundred and sixty-four	April 12, 1864	13	689	2			
Thirteenth of fifteen instalments, for same objects, for Pembina band of Chippewas, per same treaty	April 12, 1864	13	689	3	8,000 00		
Thirteenth of fifteen instalments, for pay of one blacksmith, one physician, one miller, and one farmer, per fourth article of same treaty	April 12, 1864	13	690	3	4,000 00		
Thirteenth of fifteen instalments, for the purchase of iron and steel and other articles for blacksmithing purposes, per same treaty as above	April 12, 1864	13	690	4	3,900 00		
Thirteenth of fifteen instalments, to be expended for carpentering and other purposes, per same treaty	do				1,500 00		
Transportation of annuity goods and provisions, and iron and steel for blacksmiths, for the Chippewas of Red Lake and Pembina tribes	do				1,000 00		
	Appropriated.	18	427	1	2,000 00		
						\$35,400 00	\$35,400 00
<i>Fulfilling Treaties with Choctaws—</i>							
Permanent annuity, per second article of treaty of November sixteenth, eighteen hundred and five, and thirteenth article of treaty of June twenty-second, eighteen hundred and fifty-five	Nov. 16, 1805	7	99	2	} 3,000 00		
Permanent annuity for support of light-horsemen, per thirteenth article of treaty of October eighteenth, eighteen hundred and twenty, and thirteenth article of treaty of June twenty-second, eighteen hundred and fifty-five	June 22, 1855	11	614	13			
Permanent annuity for support of blacksmith, per sixth article of treaty of October eighteenth, eighteen hundred and twenty, ninth article of treaty of January twentieth, eighteen hundred and twenty-five, and thirteenth article of treaty of June twenty-second, eighteen hundred and fifty-five	Oct. 18, 1820	7	213	13	} 600 00		
	June 22, 1855	11	614	13			
Permanent annuity for support of blacksmith, per sixth article of treaty of October eighteenth, eighteen hundred and twenty, ninth article of treaty of January twentieth, eighteen hundred and twenty-five, and thirteenth article of treaty of June twenty-second, eighteen hundred and fifty-five	Oct. 18, 1820	7	212	6	} 600 00		
	Jan. 20, 1825	7	236	9			
	June 22, 1855	11	614	13			
Permanent annuity for education, per second and thirteenth articles of last two treaties named above	Jan. 20, 1825	7	236	2	} 6,000 00		
Permanent annuity, for iron and steel, per ninth article of treaty of January twentieth, eighteen hundred and twenty-five, and thirteenth article of treaty of June twenty-second, eighteen hundred and fifty-five	June 22, 1855	11	614	13			
Interest on three hundred and ninety thousand two hundred and fifty-seven dollars and ninety-two cents, at five per centum per annum, for education, support of the government, and other beneficial purposes, under the direction of the general council of the Choctaws, in conformity with the provisions contained in the ninth and thirteenth articles of treaty of January twentieth, eighteen hundred and twenty-five, and treaty of June twenty-second, eighteen hundred and fifty-five	Jan. 20, 1825	7	236	9	} 320 00		
	June 22, 1855	11	614	13			
	Same treaties				19,512 89	30,032 89	30,032 89
<i>Fulfilling Treaties with Confederate Tribes and Bands of Indians in Middle Oregon—</i>							
Second of five instalments, fourth series, for beneficial objects, per second article of treaty of June twenty-fifth, eighteen hundred and fifty-five	June 25, 1855	12	964	2	2,000 00		
Seventeenth of twenty instalments, for pay and subsistence of one physician, one sawyer, one miller, one superintendent of farming operations, and one school teacher, per fourth article of same treaty	June 25, 1855	12	965	4	5,100 00		
Seventeenth of twenty instalments, for purchasing and keeping in repair all necessary mill fixtures, mechanics' tools, medicine and hospital stores, books and stationery for schools, and furniture for employes, per fourth article, same treaty	do				500 00		
Seventeenth of twenty instalments, for salary of the head chief of said confederated bands, per same article and treaty	do				500 00		
						8,100 00	7,600 00
<i>Fulfilling Treaties with Creeks—</i>							
Permanent annuity, in money, per fourth article of treaty of August seventh, seventeen hundred and ninety, and fifth article of treaty of August seventh, eighteen hundred and fifty-six	Aug. 7, 1790	7	36	4	} 1,500 00		
	Aug. 7, 1856	11	700	5			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Creeks—Continued.</i>							
Permanent annuity, in money, per second article of treaty of June sixteenth, eighteen hundred and two, and fifth article of treaty of August seventh, eighteen hundred and fifty-six	June 16, 1802 Aug. 7, 1856	7 11	69 700	2 5	\$3,000 00		
Permanent annuity, in money, per fourth article of treaty of January twenty-fourth, eighteen hundred and twenty-six, and fifth article treaty of August seventh, eighteen hundred and fifty-six	Jan. 24, 1826 Aug. 7, 1856	7 11	287 700	4 5	20,000 00		
Permanent annuity for blacksmith and assistant, and for shop and tools, per eighth article of treaty of January twenty-fourth, eighteen hundred and twenty-six, and fifth article treaty of August seventh, eighteen hundred and fifty-six	Same treaties.				840 00		
Permanent annuity for iron and steel for shop, per same articles and treaties	do.				270 00		
Permanent annuity for the pay of a wheelwright, per same articles of same treaties	do.				600 00		
Blacksmith and assistant, and shop and tools, per fifth article treaty of February fourteenth, eighteen hundred and thirty-three, and fifth article treaty of August seventh, eighteen hundred and fifty-six	Feb. 14, 1833 Aug. 7, 1856	7 11	419 700	5 5	840 00		
Iron and steel for shop	Same treaties.				270 00		
Wagon-maker	do.				600 00		
Educational purposes	do.				1,000 00		
Assistance in agricultural operations	do.				2,000 00		
Five per centum interest on two hundred thousand dollars, for purposes of education, per sixth article of treaty of August seventh, eighteen hundred and fifty-six	Aug. 7, 1856	11	701	6	10,000 00		
Interest on six hundred and seventy-five thousand one hundred and sixty-eight dollars, at the rate of five per centum per annum, to be expended under the direction of the Secretary of the Interior, under provisions of third article of treaty of June fourteenth, eighteen hundred and sixty-six	June 14, 1866	14	786	3	33,758 40		
						\$74,678 40	\$72,778 40
<i>Fulfilling Treaties with Crows—</i>							
Eighth of thirty instalments, to supply male persons, six hundred in number, over fourteen years of age, with a suit of good substantial woollen clothing, consisting of a coat, hat, pantaloons, flannel shirt, and woollen socks, as per ninth article treaty of May seventh, eighteen hundred and sixty-eight	May 7, 1868	15	651	9	8,400 00		
Eighth of thirty instalments, to supply each female, seven hundred in number, over twelve years of age, with a flannel skirt, or the goods necessary to make the same, a pair of woollen hose, twelve yards of calico, and twelve yards of cotton domestic, as per same article	do.				8,400 00		
Eighth of thirty instalments, to supply three hundred and fifty boys, and three hundred and fifty girls, under the ages named, such flannel and cotton goods as may be needed to make each a suit, as aforesaid, together with a pair of woollen hose for each, per same article	do.				5,923 00		
Eighth of ten instalments, to be used by the Secretary of the Interior in the purchase of such articles as from time to time their condition and necessities may indicate to be proper, the sum of ten dollars for each Indian roaming, as per same article, a sum not exceeding	May 7, 1868	15	652	9	10,000 00		
Pay of a physician, per tenth article of same treaty	May 7, 1868	15	652	10	1,400 00		
Seventh of twenty instalments, for pay of teacher and furnishing necessary books and stationery, under seventh article of same treaty	May 7, 1868	15	651	7	2,000 00		
Pay of carpenter, miller, engineer, farmer, and blacksmith, as per tenth article of same treaty	May 7, 1868	15	652	10	4,500 00		
Pay of second blacksmith, and iron and steel, as per eighth article of same treaty	May 7, 1868	15	651	8	2,000 00		
Seventh of ten instalments, to be used by the Secretary of the Interior in the purchase of such articles as, from time to time, the condition and necessities of the Indians may indicate to be proper, the sum of twenty dollars for each Indian engaged in agriculture, as per ninth article of the same treaty, a sum not exceeding	May 7, 1868	15	652	9	20,000 00		
This amount, or so much thereof as may be necessary, to furnish flour and meat	Appropriated.	18	429	1	100,000 00		
Transportation of goods	do.				10,000 00		
						172,623 00	167,623 00
<i>Fulfilling Treaties with D'Wamish and other Allied Tribes in Washington Territory—</i>							
Seventeenth of twenty instalments on one hundred and fifty thousand dollars, under the direction of the President, per sixth article treaty of January twenty-second, eighteen hundred and fifty-five	Jan. 22, 1855	12	928	6	4,250 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with D'Wamish and other Allied Tribes in Washington Territory—Continued.</i>							
Seventeenth of twenty instalments, for the establishment and support of an agricultural and industrial school, and to provide said school with a suitable instructor or instructors, per fourteenth article of same treaty.....	Jan. 22, 1855	12	929	14	\$3,000 00		
Seventeenth of twenty instalments, for the support of a smith and carpenter shop and furnishing it with necessary tools.....	do				500 00		
Seventeenth of twenty instalments, for the employment of a blacksmith, carpenter, farmer, and physician, (who shall furnish medicines for the sick,) per fourteenth article of same treaty.....	do				4,200 00		
						\$11,950 00	\$11,950 00
<i>Fulfilling Treaties with Flatheads and other Confederated Tribes—</i>							
Seventeenth of twenty instalments, for the support of an agricultural and industrial school, keeping in repair the buildings, and providing suitable furniture, books, and stationery, per fifth article treaty of July sixteenth, eighteen hundred and fifty-five.....	July 16, 1855	12	977	5	300 00		
Seventeenth of twenty instalments, for providing suitable instructors therefor, per same article of same treaty.....	do				1,800 00		
Seventeenth of twenty instalments, for keeping in repair blacksmith, tin and gunsmith, carpenter, and wagon and plow-maker shops, and providing necessary tools therefor, per same article and treaty.....	do				500 00		
Seventeenth of twenty instalments, for the employment of two farmers, two millers, one blacksmith, one tinner, one gunsmith, one carpenter, and one wagon and plow-maker, per same article and treaty.....	do				7,400 00		
Seventeenth of twenty instalments, for keeping in repair saw and flouring-mills, and for furnishing the necessary tools and fixtures therefor, per same article and treaty.....	do				500 00		
Seventeenth of twenty instalments, for keeping in repair the hospital, and providing the necessary medicines and furniture therefor, per same article and treaty.....	do				300 00		
Seventeenth of twenty instalments, for pay of a physician, per same article and treaty.....	do				1,400 00		
Seventeenth of twenty instalments, for keeping in repair the buildings required for the various employés, and furnishing the necessary furniture therefor, per same article and treaty.....	do				300 00		
Seventeenth of twenty instalments, for the pay of the head chiefs of the Flathead, Kootenay, and Upper Pend d'Oreille tribes, per same article and treaty.....	do				1,500 00		
Third of five instalments, (fourth series,) for beneficial objects, to be expended under direction of the President, per fourth article of same treaty.....	July 16, 1855	12	976	4	3,000 00		
Transportation of annuity goods and provisions to said Indians, per fifth article of same treaty.....	July 16, 1855	12	977	5	2,000 00		
						19,000 00	18,500 00
<i>Fulfilling Treaties with Gros Ventres—</i>							
This amount, to be expended in such goods, provisions, and other articles as the President may from time to time determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employés, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, and in any other respect to promote their civilization, comfort, and improvement.)	8th art. treaty July 13, 1868, not published.					35,000 00	35,000 00
<i>Fulfilling Treaties with Iowas—</i>							
Interest in lieu of investment on fifty-seven thousand five hundred dollars, balance of one hundred and fifty-seven thousand five hundred dollars, to July first, eighteen hundred and seventy-six, at five per centum per annum, for education or other beneficial purposes, under the direction of the President, per ninth article treaty of May seventeenth, eighteen hundred and fifty-four.....	May 17, 1854	10	1071	9		2,875 00	2,875 00
<i>Fulfilling Treaties with Kansas—</i>							
Interest in lieu of investment on two hundred thousand dollars, at five per centum per annum, per second article of treaty of January fourteenth, eighteen hundred and forty-six.....	Jan. 14, 1846	9	842	2		10,000 00	10,000 00
<i>Fulfilling Treaties with Kickapoos—</i>							
Interest on ninety-three thousand five hundred and eighty-one dollars and nine cents, at five per centum per annum, for educational and other beneficial purposes, per treaty of May eighteenth, eighteen hundred and fifty-four.....	May 18, 1854	10	1079	2	4,679 05		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Kickapoos—Continued.</i> Settlement, support, and civilization of Kickapoo Indians in the Indian Territory, lately removed from Mexico, and such as may be removed hereafter	Appropriated.	18	431	1	\$10,000 00	\$14,679 05	\$24,797 29
<i>Fulfilling Treaties with Klamaths and Modocs—</i> First of five instalments, (last series,) to be applied under the direction of the President, as per second article of treaty of October fourteenth, eighteen hundred and sixty-four	Oct. 14, 1864	16	708	2	3,000 00		
Tenth of twenty instalments, for keeping in repair one saw-mill, one flouring-mill, buildings for the blacksmith, carpenter, and wagon and plow-maker, the manual-labor school, and hospital, as per fourth article of same treaty ..	Oct. 14, 1864	16	708	4	1,000 00	15,100 00	17,100 00
Eleventh of twenty instalments, for the purchase of tools and material for saw and flour-mills, carpenter, blacksmith, wagon and plow-maker shops, and books and stationery for the manual-labor school, per same article same treaty	do				1,500 00		
Eleventh of fifteen instalments, for pay and subsistence of one superintendent of farming, one farmer, one blacksmith, one sawyer, one carpenter, and one wagon and plow-maker, as per fifth article of same treaty	Oct. 14, 1864	16	709	5	6,000 00		
Eleventh of twenty instalments, to pay salary and subsistence of one physician, one miller, and two school teachers, as per same article and treaty	do				3,600 00		
<i>Fulfilling Treaties with Makahs—</i> Seventh of ten instalments of thirty thousand dollars, (being the fifth series,) under direction of the President, as per fifth article treaty of January thirty-first, eighteen hundred and fifty-five	Jan. 31, 1855	12	940	5	1,000 00	8,600 00	8,600 00
Seventeenth of twenty instalments, for support of a smith and carpenter shop, and to provide the necessary tools therefor, per eleventh article of same treaty	Jan. 31, 1855	12	941	11	500 00		
Seventeenth of twenty instalments, for the support of an agricultural and industrial school, and pay of teachers, per same article and treaty	do				2,500 00		
Seventeenth of twenty instalments, for the employment of a blacksmith, carpenter, farmer, and physician, (who shall furnish medicine for the sick,) per same article and treaty	do				4,600 00		
<i>Fulfilling Treaties with Menomonees—</i> Eleventh of fifteen instalments of annuity upon two hundred and forty-two thousand six hundred and eighty-six dollars, for cession of lands, per fourth article of treaty of May twelfth, eighteen hundred and fifty-four, and Senate amendment thereto	May 12, 1854	10	1065	4		16,179 06	16,179 06
<i>Fulfilling Treaties with Miamies of Kansas—</i> Permanent provision for blacksmith and assistant, and iron and steel for shop, per fifth article treaty of October sixth, eighteen hundred and eighteen, and fourth article treaty of June fifth, eighteen hundred and fifty-four	Oct. 6, 1818 June 5, 1854	7 10	191 1095	5 4	} 940 00	11,540 00	11,500 00
Permanent provision for miller, in lieu of gunsmith, per same articles and treaties, and per fifth article of treaty of October twenty-third, eighteen hundred and thirty-four	Oct. 6, 1818 Oct. 23, 1834 June 5, 1854	7 7 10	191 464 1095	5 5 4	} 600 00		
Interest on fifty thousand dollars, at five per centum, for educational purposes, per third article treaty of June fifth, eighteen hundred and fifty-four	June 5, 1854	10	1094	3	2,500 00		
Seventeenth of twenty instalments upon one hundred and fifty thousand dollars, per same article and treaty	do				7,500 00		
<i>Fulfilling Treaties with Miamies of Eel River—</i> Permanent annuity, in goods or otherwise, per fourth article treaty of August third, seventeen hundred and ninety-five	Aug. 3, 1795	7	51	4	500 00	1,100 00	1,100 00
Permanent annuity, in goods or otherwise, per articles of treaty of August twenty-first, eighteen hundred and five ..	Aug. 21, 1805	7	91	3	250 00		
Permanent annuity, in goods or otherwise, per third and separate articles treaty of September thirtieth, eighteen hundred and nine	Sept. 30, 1809	7	114	3	350 00		
<i>Fulfilling Treaties with Miamies of Indiana—</i> Interest on two hundred and twenty-one thousand two hundred and fifty-seven dollars and eighty-six cents, uninvested, at five per centum, per Senate amendment to fourth article treaty of June fifth, eighteen hundred and fifty-four	June 5, 1854	10	1099	4		11,062 89	11,062 89

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Moles—</i> Pay of teachers and for manual-labor schools, and for all necessary materials therefor, and for the subsistence of the pupils, per fourth article treaty of December twenty-first, eighteen hundred and fifty-five.....	Dec. 21, 1855	12	981	4	-----	\$3,000 00	\$3,000 00
<i>Fulfilling Treaties with Mixed Shoshones, Bannocks, and Sheepeaters—</i> This amount, to be expended in such goods, provisions, and other articles as the President may from time to time determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employes, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, and in any other respect to promote their civilization, comfort, and improvement.....	5th art. treaty Sept. 24, 1868, not published.	} -----			-----	20,000 00	20,000 00
<i>Fulfilling Treaties with Navajoes—</i> Eight of ten instalments, of such articles of clothing, or raw material in lieu thereof, for nine thousand one hundred and forty-one Navajo Indians, not exceeding five dollars per Indian, as per eighth article of treaty of June first, eighteen hundred and sixty-eight.....	June 1, 1868	15	669	8	\$45,705 00		
Seventh of ten instalments, to be used by the Commissioner of Indian Affairs in the purchase of such articles as, from time to time, the condition and necessities of the Indians may indicate to be proper, the sum of ten dollars to each person who engages in farming or mechanical pursuits, (say 3,047 persons)	do				30,470 00		
Sixth of ten instalments, for pay of two teachers, per sixth article of same treaty	do				2,000 00		
Transportation of goods and supplies	Appropriated.	18	433	1	5,000 00	83,175 00	81,175 00
<i>Fulfilling Treaties with Nez Percés—</i> Second of five instalments, of last series, for beneficial objects, at the discretion of the President, per fourth article of treaty of June eleventh, eighteen hundred and fifty-five.....	June 11, 1855	12	959	4	4,000 00		
Seventeenth of twenty instalments, for the support of two schools, one of which to be an agricultural and industrial school, keeping in repair school buildings, and for providing suitable furniture, books, and stationery, per same article same treaty	do				500 00		
Seventeenth of twenty instalments, for the employment of one superintendent of teaching, and two teachers, per same article and treaty	do				2,700 00		
Seventeenth of twenty instalments, for the employment of one superintendent of farming, two farmers, two millers, two blacksmiths, one tinner, one gunsmith, one carpenter, and one wagon and plow-maker, per same article and treaty	do				7,000 00		
Seventeenth of twenty instalments, for pay of a physician, per same article and treaty	do				1,000 00		
Seventeenth of twenty instalments, for keeping in repair the buildings for the various employes, and for providing the necessary furniture therefor, per same article and treaty	do				300 00		
Seventeenth of twenty instalments, for the salary of such person as the tribe may select to be their head chief, per same article and treaty	do				500 00		
Salary of two subordinate chiefs, per fifth article treaty of June ninth, eighteen hundred and sixty-three	June 9, 1863	14	650	5	1,000 00		
Eleventh of sixteen instalments, for boarding and clothing the children who shall attend the schools, providing the schools and boarding-houses with necessary furniture, the purchase of necessary wagons, teams, agricultural implements, tools, &c., and for fencing of such lands as may be needed for gardening and farming purposes for the schools	June 9, 1863	14	649	4	3,000 00		
Salaries of two matrons to take charge of the boarding-schools, two assistant teachers, one farmer, one carpenter, and two millers	June 9, 1863	14	650	5	4,500 00		
Seventeenth of twenty instalments, for keeping in repair the hospital, and providing the necessary medicine and the furniture therefor	June 11, 1855	12	959	5	300 00		
Repairs of houses, mills, and tools and necessary materials	June 9, 1863	14	650	5	2,500 00		
Transportation of supplies	Submitted				1,000 00	28,300 00	25,800 00
<i>Fulfilling Treaties with Northern Cheyennes and Arapahoes—</i> Eighth of thirty instalments, for purchase of clothing, as per sixth article treaty of May tenth, eighteen hundred and sixty-eight.....	May 10, 1868	15	657	6	12,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Northern Cheyennes and Arapahoes—Continued.</i>							
Eighth of ten instalments, to be expended by the Secretary of the Interior, ten dollars for each Indian roaming, (estimated at one thousand eight hundred souls,) in the purchase of such articles as, from time to time, the condition and necessities of the Indians may indicate to be proper, as per same article and treaty.....	May 10, 1868	15	657	6	\$18,000 00		
Pay of physician, teacher, carpenter, miller, farmer, blacksmith, and engineer, per seventh article of same treaty..	May 10, 1868	15	658	7	6,700 00		
Transportation of goods.....	Appropriated.	18	434	1	2,500 00		
						\$39,200 00	\$37,700 00
<i>Fulfilling Treaties with Omahas—</i>							
Ninth of fifteen instalments of this amount, being third series, in money or otherwise, per fourth article, treaty of March sixteenth, eighteen hundred and fifty-four....	Mar. 16, 1854	10	1044	4	20,000 00		
Ninth of ten instalments for support of blacksmith shop, and supplying tools for the same, per fourth article treaty of March sixteenth, eighteen hundred and fifty-four, and third article treaty of March sixth, eighteen hundred and sixty-five.....	Mar. 16, 1854 Mar. 6, 1865	10 14	1044 668	4 3	300 00		
One matron.....	Appropriated.	18	435	1	600 00		
NOTE.—\$4,200, last of ten instalments, appropriated last year, dropped in this estimate.						20,900 00	25,100 00
<i>Fulfilling Treaties with Osages—</i>							
Interest on sixty-nine thousand one hundred and twenty dollars, at five per centum per annum, being value of fifty-four sections of land set apart by treaty of June second, eighteen hundred and twenty-five, for educational purposes, per Senate resolution of January ninth, eighteen hundred and thirty-eight.....	June 2, 1825 Jan. 9, 1838	7	242	6	3,456 00		
Interest on three hundred thousand dollars, at five per centum per annum, to be paid semi-annually in money or such articles as the Secretary of the Interior may direct, as per first article treaty of September twenty-ninth, eighteen hundred and sixty-five.....	Sept. 29, 1865	14	687	1	15,000 00		
NOTE.—Dropped: estimate for interest on \$775,543 50, at five per centum per annum, \$38,777 18. (Special estimate will be made for this item.)						18,456 00	18,456 00
<i>Fulfilling Treaties with Ottos and Missourias—</i>							
Ninth of fifteen instalments, being the third series, in money or otherwise, per fourth article treaty of March fifteenth, eighteen hundred and fifty-four.....	Mar. 15, 1854	10	1039	4	9,000 00		
Support of industrial schools at the Ottoo agency, the amount to be reimbursed from the proceeds of the sales of the lands of said Indians in Nebraska.....	Appropriated.	18	435	1	6,000 00		
						15,000 00	15,000 00
<i>Fulfilling Treaties with Pawnees—</i>							
Perpetual annuity, at least one-half of which is to be paid in goods and such articles as may be deemed necessary for them, per second article treaty of September twenty-fourth, eighteen hundred and fifty-seven.....	Sept. 24, 1857	11	729	2	30,000 00		
Support of two manual-labor schools, per third article of same treaty.....	Sept. 24, 1857	11	730	3	10,000 00		
Pay of two farmers, two blacksmiths and two apprentices, one miller and apprentice, and two teachers, (and for one shoemaker and one carpenter, \$1,600).....	Sept. 24, 1857	11	730	3, 4	7,500 00		
Pay of physician and purchase of medicines.....	Appropriated.	18	436	1	1,200 00		
Purchase of iron and steel, and other necessities for the shops, as per fourth article treaty of September twenty-fourth, eighteen hundred and fifty-seven.....	Sept. 24, 1857	11	730	4	500 00		
Purchase of farming utensils and stock, per same article of same treaty.....	do.				1,200 00		
Repairs of grist and saw-mills.....	Appropriated.	18	436	1	300 00		
Transportation and necessary cost of delivery of annuities to Pawnees.....	do.				1,500 00		
This amount, or so much thereof as may be necessary for the employment of one matron, three teachers, and two assistant teachers, and providing schools with fuel, books, and stationery.....	do.				4,700 00		
						56,900 00	57,176 87
<i>Fulfilling Treaties with Poncas—</i>							
Third of fifteen instalments, third series, to be paid to them or expended for their benefit, per second article treaty of March twelfth, eighteen hundred and fifty-eight.....	Mar. 12, 1858	12	997	2	8,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fulfilling Treaties with Poncas—Continued.</i>							
This amount, to be expended during the pleasure of the President, in furnishing such aid and assistance in agricultural and mechanical pursuits, including the working of the mill, as provided by the same article of same treaty, as the Secretary of the Interior may consider advantageous and necessary.....	Mar. 12, 1858	12	998	2	\$7,500 00		
This amount, or so much thereof as may be necessary, to be used at the discretion of the President, to carry on the work of aiding and instructing the Poncas in the arts of civilization, with a view to their self-support, and for subsistence and clothing.....	Mar. 3, 1871	16	558	1	10,000 00	\$25,500 00	\$18,000 00
<i>Fulfilling Treaties with Pottawatomies—</i>							
Permanent annuity, in silver, per fourth article treaty of August third, seventeen hundred and ninety-five.....	Aug. 3, 1795	7	51	4	357 80		
Permanent annuity, in silver, per third article treaty of September thirtieth, eighteen hundred and nine.....	Sept. 30, 1809	7	114	3	178 90		
Permanent annuity, in silver, per third article treaty of October second, eighteen hundred and eighteen.....	Oct. 2, 1818	7	185	3	894 50		
Permanent annuity, in money, per second article treaty of September twentieth, eighteen hundred and twenty-eight.....	Sept. 20, 1828	7	315	2	715 60		
Permanent annuity, in specie, per second article treaty of July twenty-ninth, eighteen hundred and twenty-nine, and second article of treaty of September twentieth, eighteen hundred and twenty-eight.....	July 29, 1829 Sept. 20, 1828	7 7	320 315	2 2	5,724 77		
Permanent provision for payment of money in lieu of tobacco, iron, and steel, per second article treaty of September twentieth, eighteen hundred and twenty-eight, and tenth article treaties of June fifth and seventeenth, eighteen hundred and forty-six.....	Sept. 20, 1828 June 5, 1846 June 17, 1846	7 9 9	318 855 855	2 10 10	107 34		
Permanent provisions for three blacksmiths and assistants, and for iron and steel for shops, per third article treaty of October sixteenth, eighteen hundred and twenty-six, second article treaty of September twentieth, eighteen hundred and twenty-eight, and second article treaty of July twenty-ninth, eighteen hundred and twenty-nine.....	Oct. 16, 1826 Sept. 20, 1828 July 29, 1829	7 7 7	296 318 321	3 2 2	1,008 99		
Permanent provision for fifty barrels of salt, per second article treaty of July twenty-ninth, eighteen hundred and twenty-nine.....	July 29, 1829	7	321	2	156 54		
Interest on two hundred and thirty thousand sixty-four dollars and twenty cents, at five per centum, in conformity with provisions of article seventh of treaties of June fifth and seventeenth, eighteen hundred and forty-six.....	June 5, 1846 June 17, 1846	9 9	855 855	7 7	11,503 21	20,647 65	20,647 65
<i>Fulfilling Treaties with Pottawatomies of Huron—</i>							
Permanent annuity, in money or otherwise, per second article treaty of November seventeenth, eighteen hundred and seven.....	Nov. 17, 1807	7	106	2	400 00	400 00	400 00
<i>Fulfilling Treaties with Quapaws—</i>							
Education, during the pleasure of the President, per third article treaty of May thirteenth, eighteen hundred and thirty-three.....	May 13, 1833	7	425	3	1,000 00		
Blacksmith and assistants, and tools, iron, and steel, for blacksmith shop, per same article and treaty.....	do.....				1,060 00	2,060 00	2,060 00
<i>Fulfilling Treaties with Qui-nai-elts and Quil-leh-utes—</i>							
Second of five instalments, of twenty-five thousand dollars, (last series,) for beneficial objects, under the direction of the President, per fourth article treaty of July first, eighteen hundred and fifty-five.....	July 1, 1855	12	972	4	700 00		
Seventeenth of twenty instalments, for the support of an agricultural and industrial school, and for pay of suitable instructors, per tenth article of same treaty.....	July 1, 1855	12	973	10	2,500 00		
Seventeenth of twenty instalments, for support of smith and carpenter shop, and to provide the necessary tools therefor, per same article and treaty.....	do.....				500 00		
Seventeenth of twenty instalments, for the employment of a blacksmith, carpenter, farmer, and a physician, (who shall furnish medicine for the sick,) per same article same treaty.....	do.....				4,100 00	7,800 00	7,800 00
<i>Fulfilling Treaties with River Crows—</i>							
This amount, to be expended for such goods, provisions, and other articles as the President from time to time may determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employes, educating children, procuring medicine and medical attendance; care for and support of aged, sick, and infirm; for the helpless orphans of said Indians, and in any other respect to promote their civilization, comfort, and improvement.....	July 15, 1868	16	349	7	30,000 00	30,000 00	30,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fulfilling Treaties with Sacs and Foxes of the Mississippi—</i>							
Permanent annuity, in goods or otherwise, per third article treaty of November third, eighteen hundred and four.....	Nov. 3, 1804	7	85	3	\$1,000 00		
Interest on two hundred thousand dollars, at five per centum, per second article treaty of October twenty-first, eighteen hundred and thirty-seven.....	Oct. 21, 1837	7	540	2	10,000 00		
Interest on eight hundred thousand dollars, at five per centum, per second article treaty of October eleventh, eighteen hundred and forty-two, provided that the sum of \$1,500 of this amount shall be used for the pay of a physician and for purchase of medicine.....	Oct. 11, 1842	7	596	2	40,000 00		
Support of school for the Sacs and Foxes of the Mississippi at the agency in Iowa	Appropriated.	18	421	1	1,000 00		
						\$52,000 00	\$52,000 00
<i>Fulfilling Treaties with Sacs and Foxes of Missouri—</i>							
Interest on one hundred and fifty-seven thousand four hundred dollars, at five per centum, under the direction of the President, per second article treaty of October twenty-first, eighteen hundred and thirty-seven	Oct. 21, 1837	7	543	2	7,870 00		
Support of a school, per fifth article treaty of March sixth, eighteen hundred and sixty-one	Mar. 6, 1861	12	1172	5	200 00		
						8,070 00	8,070 00
<i>Fulfilling Treaties with Seminoles—</i>							
Five per centum interest on two hundred and fifty thousand dollars, to be paid as annuity, per eighth article treaty of August seventh, eighteen hundred and fifty-six	Aug. 7, 1856	7	702	8	12,500 00		
Five per centum interest on two hundred and fifty thousand dollars, to be paid as annuity, (they having joined their brethren west,) per eighth article treaty of August seventh, eighteen hundred and fifty-six	do.....				12,500 00		
Interest on fifty thousand dollars, at the rate of five per centum per annum, to be paid annually for the support of schools, as per third article, treaty of March twenty-first, eighteen hundred and sixty-six.....	Mar. 21, 1866	14	757	3	2,500 00		
Interest on twenty thousand dollars, at the rate of five per centum per annum, to be paid annually, for the support of the Seminole government, as per same article same treaty	do.....				1,000 00		
						28,500 00	28,500 00
<i>Fulfilling Treaties with Senecas—</i>							
Permanent annuity, in specie, per fourth article treaty of September twenty-ninth, eighteen hundred and seventeen.....	Sept. 29, 1817	7	161	4	500 00		
Permanent annuity, in specie, per fourth article treaty of September seventeenth, eighteen hundred and eighteen..	Sept. 17, 1818	7	197	4	500 00		
Blacksmith and assistant, shops and tools, iron and steel, to be applied as stipulated in the seventh article treaty of February twenty-third, eighteen hundred and sixty-seven	Feb. 23, 1867	15	575	7	1,060 00		
Miller, during the pleasure of the President, as per same article of the same treaty	do.....				600 00		
						2,660 00	2,660 00
<i>Fulfilling Treaties with Senecas of New York—</i>							
Permanent annuity, in lieu of interest on stock, per act of February nineteenth, eighteen hundred and thirty-one..	Feb. 19, 1831	4	442	1	6,000 00		
Interest, in lieu of investment, on seventy-five thousand dollars, at five per centum, per act of June twenty-seventh, eighteen hundred and forty-six.....	June 27, 1846	9	35	2	3,750 00		
Interest, at five per centum, on forty-three thousand and fifty dollars, transferred from the Ontario Bank to the United States Treasury, per act of June twenty-seventh, eighteen hundred and forty-six.....	June 27, 1846	9	35	3	2,152 50		
						11,902 50	11,902 50
<i>Fulfilling Treaties with Senecas and Shawnees—</i>							
Permanent annuity, in specie, per fourth article treaty of September seventeenth, eighteen hundred and eighteen, and fifth article treaty of February twenty-third, eighteen hundred and sixty-seven.....	Sept. 7, 1818 Feb. 23, 1867	7 15	118 515	4 5	1,000 00		
Blacksmith and assistant, shops and tools, iron and steel, per fourth article treaty of July twentieth, eighteen hundred and thirty-one, and fifth article treaty of February twenty-third, eighteen hundred and sixty-seven	July 20, 1831 Feb. 23, 1867	7 15	352 515	4 5	1,060 00		
						2,060 00	2,060 00
<i>Fulfilling Treaties with Shawnees—</i>							
Permanent annuity, for educational purposes, per fourth article treaty of August third, seventeen hundred and ninety-five, and third article treaty of May tenth, eighteen hundred and fifty-four	Aug. 3, 1795 May 10, 1854	7 10	51 1056	4 3	1,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fulfilling Treaties with Shawnees—Continued.</i>							
Permanent annuity, in specie, for educational purposes, per fourth article treaty of September twenty-ninth, eighteen hundred and seventeen, and third article treaty of May tenth, eighteen hundred and fifty-four..	Sept. 29, 1817 May 10, 1854	7 10	161 1056	4 3	\$2,000 00		
Interest, at five per centum, on forty thousand dollars, for educational purposes, per third article of last-named treaty.....	May 10, 1854	10	1056	3	2,000 00	\$5,000 00	\$5,000 00
<i>Fulfilling Treaties with Shoshones, Eastern, Western, Northwestern, and Goship Bands—</i>							
Eastern bands:							
This amount, to be expended under the direction of the President, in the purchase of such articles as he may deem suitable to their wants, either as hunters or herdsmen.	Appropriated.	18	439	1	10,000 00		
Western bands:							
Thirteenth of twenty instalments, to be expended under the direction of the President, in the purchase of such articles as he may deem suitable to their wants, either as hunters or herdsmen, per seventh article treaty of October first, eighteen hundred and sixty-three.....	Oct. 1, 1863	13	557	7	5,000 00		
Northwestern bands:							
Thirteenth of twenty instalments, to be expended under the direction of the President, in the purchase of such articles as he may deem suitable to their wants, either as hunters or herdsmen, per third article treaty of July thirtieth, eighteen hundred and sixty-three.....	July 30, 1863	13	663	3	5,000 00		
Goship band:							
Thirteenth of twenty instalments, to be expended under the direction of the President, in the purchase of such articles, including cattle for herding and other purposes, as he shall deem suitable to their wants and condition as hunters and herdsmen, per third article treaty of October twelfth, eighteen hundred and sixty-three...	Oct. 12, 1863	13	682	7	1,000 00	21,000 00	21,000 00
<i>Fulfilling Treaties with Shoshones and Bannocks—</i>							
Shoshones:							
Seventh of thirty instalments, to purchase suits of clothing for males over fourteen years of age; flannel, hose, calico, and domestics for females over the age of twelve years; and such goods as may be needed to make suits for boys and girls under the ages named	July 3, 1868	15	676	9	13,874 00		
Sixth of ten instalments, for the purchase of such articles as may be considered proper by the Secretary of the Interior for Indians roaming and engaged in agriculture, as per ninth article treaty of July third, eighteen hundred and sixty-eight	do.....				25,000 00		
Pay of physician, teacher, carpenter, miller, engineer, farmer, and blacksmith, as per tenth article of treaty of July third, eighteen hundred and sixty-eight.....	July 3, 1868	15	676	10	5,000 00		
Pay of second blacksmith, and such iron and steel and other materials as may be required, per eighth article of the same treaty	July 3, 1868	15	676	8	1,000 00		
Third of five instalments of the sum of twenty-five thousand dollars named in a certain agreement, dated September twenty-sixth, eighteen hundred and seventy-two, confirmed by act of June twenty-second, eighteen hundred and seventy-four, made under the provisions of the act of June first, eighteen hundred and seventy-two, by F. R. Brunot, president of the Board of Indian Commissioners, with the Shoshone tribe of Indians, for the relinquishment by said Indians of certain lands within the limits of the reservation ceded to them by the treaty of July third, eighteen hundred and sixty-eight, to be expended under the direction of the President in the purchase of stock cattle.....	Appropriated.	18	440	1	5,000 00		
Third of five instalments, to be paid to Wash-a-kie, chief of the Shoshones, under the same agreement.....	do.....				500 00		
Bannocks:							
Seventh of thirty instalments, to purchase suits of clothing for males over fourteen years of age; flannel, hose, calico, and domestics for females over twelve years of age, and such flannel and cotton goods as may be needed to make suits for boys and girls under the ages named..	July 3, 1868	15	676	9	6,937 00		
Seventh of ten instalments, for the purchase of such articles as may be considered proper by the Secretary of the Interior for persons roaming and engaged in agriculture.....	do.....				14,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fulfilling Treaties with Shoshones and Bannocks—Continued.</i>							
Pay of physician, teacher, carpenter, miller, engineer, farmer, and blacksmith, as per tenth article treaty of July third, eighteen hundred and sixty-eight.....	July 3, 1868	15	676	10	\$5,000 00		
Last of three instalments, for the purchase of seeds and farming implements, as per eighth article of the same treaty	July 3, 1868	15	676	8	800 00		
Transportation of goods that may be purchased for the Shoshones and Bannocks	May 29, 1872	.....	.....	.....	5,000 00	\$82,111 00	\$78,111 00
<i>Fulfilling Treaties with Six Nations of New York—</i>							
Permanent annuity, in clothing and other useful articles, per sixth article treaty of November seventeenth, seventeen hundred and ninety-four	Nov. 17, 1794	7	46	6	.....	4,500 00	4,500 00
<i>Fulfilling Treaties with Sioux of Different Tribes, including Santee Sioux of Nebraska—</i>							
Seventh of thirty instalments, to purchase clothing for males over fourteen years of age; for flannel, hose, and calico, and domestics required for females over twelve years of age; and for such flannel and cotton goods as may be needed to make suits for boys and girls, per tenth article treaty of April twenty-ninth, eighteen hundred and sixty-eight	April 29, 1868	15	638	10	159,400 00		
Seventh of thirty instalments, to purchase such articles as may be considered proper by the Secretary of the Interior, for persons roaming, and for persons engaged in agriculture	do.....	.....	.....	.....	200,000 00		
Pay of second blacksmith, and furnishing iron, steel, and other material, per eighth article same treaty	April 29, 1868	15	638	8	2,000 00		
This amount, to be expended in the purchase of beef, flour, bacon, and sugar, in proportionate quantities, for thirty-five thousand persons, for subsistence of the Yankton Sioux and Poncas, and for purposes of their civilization.	Appropriated.	18	441	1	1,400,000 00		
Pay of physician, five teachers, one carpenter, one miller, one engineer, one farmer, and one blacksmith, per thirteenth article of same treaty	April 29, 1868	18	640	13	10,400 00		
This additional amount, for pay of additional employés, at the Seven Agencies, for the Sioux in Dakota	Submitted .....	.....	.....	.....	29,600 00		
Industrial school at the Santee Sioux agency	Appropriated.	18	441	1	3,000 00		
Pay of a matron at the same agency	do.....	.....	.....	.....	800 00		
Transportation and the necessary expenses of delivering goods to be purchased for the different bands of the Sioux Indians, under treaty of April twenty-ninth, eighteen hundred and sixty-eight	do.....	.....	.....	.....	150,000 00	1,955,200 00	1,572,600 00
<i>Fulfilling Treaties with Sioux, Sisseton and Wahpeton, and Santee Sioux of Lake Traverse and Devil's Lake—</i>							
This amount, being the fourth of ten instalments of the sum of eight hundred thousand dollars, named in a certain agreement confirmed by act approved June twenty-second, eighteen hundred and seventy-four, made by the commissioners appointed by the Secretary of the Interior under the provisions of the act of June seventh, eighteen hundred and seventy-two, with the Sisseton and Wahpeton bands of Sioux Indians, for the relinquishment by said Indians of their claim to or interest in the lands described in the second article of the treaty made with them February nineteenth, eighteen hundred and sixty-seven, the same to be expended under the direction of the President, for the benefit of said Indians, in the manner prescribed in said treaty of eighteen hundred and sixty-seven, as amended by the Senate, said amendment as amended having been ratified by the Indians, as provided by act of February fourteenth, eighteen hundred and seventy-three	Appropriated.	18	441	1	.....	80,000 00	80,000 00
<i>Fulfilling Treaties with Sioux, Yankton Tribe—</i>							
Eighth of ten instalments, (second series,) to be paid to them, or expended for their benefit, per fourth article treaty of April nineteenth, eighteen hundred and fifty-eight	April 19, 1858	11	744	4	40,000 00		
Transportation of goods	Appropriated.	18	442	1	1,200 00	41,200 00	41,200 00
<i>Fulfilling Treaties with Snakes, Wal-pah-pee Tribe—</i>							
Fifth of ten instalments, to be expended under the direction of the President, as per seventh article treaty of August twelfth, eighteen hundred and sixty-five	Aug. 12, 1865	14	684	7	.....	1,200 00	1,200 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with S'Klallams—</i>							
Seventeenth of twenty instalments, on sixty thousand dollars, (last series,) to be applied to the use and benefit of said Indians, under the direction of the President, per fifth article treaty of January twenty-sixth, eighteen hundred and fifty-five.....	Jan. 26, 1855	12	934	5	\$1,600 00		
Seventeenth of twenty instalments, for the support of an agricultural and industrial school, and for pay for suitable teachers, per eleventh article same treaty.....	Jan. 26, 1855	12	935	11	2,500 00		
Seventeenth of twenty instalments, for the employment of a blacksmith, carpenter, farmer, and a physician, (who shall furnish medicine for the sick,) per same article, same treaty.....	do.				4,600 00		
Support of a smith and carpenter shop, and to provide the necessary tools therefor, per same article and treaty.....	do.				500 00		
						\$9,200 00	\$9,200 00
<i>Fulfilling Treaties with Utahs, Tabeguache Band—</i>							
Pay of blacksmith, as per tenth article treaty of October seventh, eighteen hundred and sixty-three.....	Oct. 7, 1863	13	675	10		720 00	720 00
<i>Fulfilling Treaties with Tabeguache, Muache, Capote, Weeminuche, Yampa, Grand River, and Uintah Bands of Utes—</i>							
Pay of two carpenters, two millers, two farmers, and one blacksmith, as per fifteenth article treaty of March second, eighteen hundred and sixty-eight.....	Mar. 2, 1868	15	622	15	6,000 00		
Pay of two teachers, as per same article same treaty.....	do.				1,800 00		
Purchase of iron and steel, and the necessary tools for blacksmith shop, per ninth article of same treaty.....	Mar. 2, 1868	15	621	9	220 00		
Eighth of thirty instalments, to be expended under the direction of the Secretary of the Interior for clothing, blankets, and such other articles as he may deem proper and necessary, under eleventh article of same treaty....	Mar. 2, 1868	15	622	11	30,000 00		
Annual amount to be expended under the direction of the President, in supplying said Indians with beef, mutton, wheat, flour, beans, and potatoes, as per twelfth article of same treaty.....	Mar. 2, 1868	15	622	12	30,000 00		
Transportation of such goods and supplies as may be purchased for said Indians.....	Appropriated.	18	443	1	10,000 00		
						78,020 00	73,020 00
<i>Fulfilling Treaties with Walla-Walla, Cayuse, and Umatilla Tribes—</i>							
Seventeenth of twenty instalments, (being the last series,) to be expended under the direction of the President, per second article treaty of June ninth, eighteen hundred and fifty-five.....	June 9, 1855	12	946	2	2,000 00		
Seventeenth of twenty instalments, for the purchase of all necessary mill fixtures and mechanical tools, medicine and hospital stores, books and stationery for schools, repairs of school building and furniture, and for employés, per fourth article, treaty of June ninth, eighteen hundred and fifty-five.....	June 9, 1855	12	947	4	3,000 00		
Seventeenth of twenty instalments, for the pay and subsistence of one superintendent of farming, one farmer, two millers, one blacksmith, one wagon and plow-maker, one carpenter and joiner, one physician, and two teachers, per fourth article of same treaty.....	do.				9,000 00		
Seventeenth of twenty instalments, for the pay of each of the head chiefs of the Walla-Walla, Cayuse, and Umatilla bands, the sum of five hundred dollars per annum, per fifth article of same treaty.....	June 9, 1855	12	947	5	1,500 00		
						15,500 00	15,500 00
<i>Fulfilling Treaties with Winnebagoes—</i>							
Interest on eight hundred and four thousand nine hundred and nine dollars and seventeen cents, at five per centum per annum, per fourth article treaty of November first, eighteen hundred and thirty-seven, and joint resolution of July seventeenth, eighteen hundred and sixty-two.....	Nov. 1, 1837 and resolution July 17, 1862	7 12	546 628	4 4	40,245 45		
Last of thirty instalments of interest on seventy-five thousand three hundred and eighty-seven dollars and twenty-eight cents, at five per centum per annum, per fourth article treaty of October thirteenth, eighteen hundred and forty-six.....	Oct. 13, 1846	9	879	4	3,769 36		
Interest on seventy-eight thousand three hundred and forty dollars and forty-one cents, at five per centum per annum, to be expended under the direction of the Secretary of the Interior, for the erection of houses, improvement of their allotments of land, purchase of stock, agricultural implements, seeds, and other beneficial objects.....	July 15, 1870	16	355	1	3,917 02		
						47,931 83	50,488 39

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Fulfilling Treaties with Yakamas—</i>							
Seventeenth of twenty instalments, (last series,) for beneficial objects, to be expended under the direction of the President, per fourth article treaty of June ninth, eighteen hundred and fifty-five.....	June 9, 1855	12	953	4	\$4,000 00		
Seventeenth of twenty instalments, for the support of two schools, one of which is to be an agricultural and industrial school, keeping in repair school buildings, and for providing suitable furniture, books, and stationery, per fifth article of same treaty.....	June 9, 1855	12	953	5	500 00		
Seventeenth of twenty instalments for the employment of one superintendent of teaching and two teachers, per same article of same treaty.....	do.....				3,200 00		
Seventeenth of twenty instalments, for the employment of one superintendent of farming and two farmers, two millers, two blacksmiths, one tinner, one gunsmith, one carpenter, and one wagon and plow-maker, per same article of same treaty.....	do.....				11,400 00		
Seventeenth of twenty instalments, for keeping in repair saw and flouring-mills, and for furnishing the necessary tools and fixtures, per same article and treaty.....	do.....				500 00		
Seventeenth of twenty instalments, for keeping in repair the hospital, and providing the necessary medicine and fixtures therefor, per fifth article same treaty.....	do.....				300 00		
Seventeenth of twenty instalments, for keeping in repair blacksmith, tinsmith, gunsmith, carpenter, and wagon and plow-maker shops, and providing necessary tools therefor, per same article and treaty.....	do.....				500 00		
Seventeenth of twenty instalments, for the pay of a physician, per same article and treaty.....	do.....				1,200 00		
Seventeenth of twenty instalments, for keeping in repair the buildings required for the various employés, and for providing the necessary furniture therefor, per same article and treaty.....	do.....				300 00		
Seventeenth of twenty instalments, for the salary of such person as the said confederated tribes and bands of Indians may select to be their head chief, per same article and treaty.....	do.....				500 00		
						\$22,400 00	\$22,400 00
REMOVAL, SETTLEMENT, SUBSISTENCE, AND SUPPORT OF INDIANS.							
<i>Civilization of Indians—</i>							
This amount, for the support of industrial schools and other educational purposes for the Indian tribes, and for introducing among them the habits and arts of civilization.....	Submitted ..					150,000 00	
<i>Settlement, Subsistence, and Support of Shoshones and Bannocks, and other Bands in Idaho and Southeastern Oregon—</i>							
This amount, to be expended by the direction of the President, in assisting the roving bands of Indians in southeastern Idaho to move and locate on the Fort Hall reservation, in Idaho Territory, and to assist them in educational and agricultural pursuits on said reservation.....	Mar. 3, 1871	16	562	1	20,000 00		
This amount, to be expended by direction of the President, in assisting the roving bands of Indians in southeastern Oregon to move and locate on some proper reservation in Oregon, and to assist them in agricultural pursuits thereon.....	do.....				10,000 00		
						30,000 00	20,000 00
<i>Support and Civilization of the Sioux at Fort Peck Agency—</i>							
This amount, to be expended in such goods, provisions, and other useful articles as the President may from time to time determine, including transportation; in instructing in agricultural and mechanical pursuits; in providing employés, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, and in any respect to promote their civilization, comfort, and improvement.....	Appropriated.	18	442	1	.....	100,000 00	100,000 00
<i>Subsistence and Civilization of Arickarees, Gros Ventres, and Mandans—</i>							
This amount, to be expended in such goods, provisions, and other articles as the President may from time to time determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employés, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, and in any other respect to promote their civilization, comfort, and improvement.....	Appropriated.	18	423	1	.....	85,000 00	85,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Collecting and Subsisting Apaches of Arizona and New Mexico—</i> This amount, to subsist and properly care for the Apache Indians in Arizona and New Mexico who have been or may be collected on reservations in New Mexico or Arizona, namely: For those in Arizona, three hundred and fifty thousand dollars; and for those in New Mexico, one hundred thousand dollars	Appropriated.	18	423	1	.....	\$450,000 00	\$450,000 00
<i>Subsistence of the Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas—</i> Subsistence of the Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichita Indians, (and transportation of the same,) who have been collected upon the reservations set apart for their use and occupation	Appropriated.	18	423	1	.....	300,000 00	300,000 00
<i>Civilization and Subsistence of Indians on the Malheur Reservation—</i> This amount, or so much thereof as may be necessary in the purchase of goods, subsistence, stores, and so forth, for the Indians collected on the Malheur reservation, Oregon; in instructing them in agricultural and mechanical pursuits; providing employes, educating children, procuring medicines and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, or in any other respect to promote their civilization, comfort, and improvement	Appropriated.	18	447	1	.....	70,000 00	35,000 00
<i>Civilization and Subsistence of Indians of Central Superintendency—</i> This amount, or so much thereof as may be necessary, to carry on the work of aiding and instructing the Indians of the Central superintendency in the arts of civilization; in providing clothing, food, and lodging for the children attending school; in caring for the orphans, the sick, and the helpless; and in assisting the Indians generally to locate themselves in permanent homes, and sustain themselves by the pursuits of civilized life	Appropriated	18	447	1	.....	25,000 00	10,000 00
<i>Subsistence of Kansas Indians—</i> This amount, or so much thereof as may be necessary, to subsist and properly care for the Kansas Indians, including agricultural assistance, pay of employes, and for such other beneficial objects for the tribe at large as their necessities may indicate to be proper	Appropriated.	18	447	1	.....	10,000 00	20,000 00
<i>Settlement, Subsistence, and Support of Modocs, now residing within the Indian Territory—</i> This amount, or so much thereof as may be necessary, to provide, under the direction of the Secretary of the Interior, settlements, clothing, food, agricultural implements, and seeds for the Modoc Indians that have been removed to, and are now residing within, the Indian Territory	Appropriated.	18	447	1	.....	7,000 00	10,000 00
<i>Payment to Flatheads removed to Jocko Reservation, Montana—</i> Fourth of ten instalments of fifty thousand dollars, to be expended under the direction of the President, for the Flathead Indians, removed from Bitter Root Valley to the Jocko reservation, in the Territory of Montana	Appropriated.	18	447	1	.....	5,000 00	5,000 00
<i>Civilization of the Chippewa Indians in Minnesota—</i> This amount, or so much thereof as may be necessary, to enable the Secretary of the Interior to carry on the work of aiding and instructing the Chippewa Indians in Minnesota in the arts of civilization, with a view to their self-support, for agricultural and industrial purposes, and for the support of a saw-mill at Leech Lake	Submitted .....				.....	25,000 00	
<i>Colonizing and Supporting the Wichitas and other Affiliated Bands—</i> This amount, to be expended in such goods, provisions, and other articles as the President may from time to time determine, including transportation thereof; in instructing in agricultural and mechanical pursuits; in providing employes, educating children, procuring medicine and medical attendance; care for and support of the aged, sick, and infirm; for the helpless orphans of said Indians, and in any other respect to promote their civilization, comfort, and improvement	Appropriated.	18	443	1	.....	50,000 00	50,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
GENERAL INCIDENTAL EXPENSES OF THE INDIAN SERVICE.							
<i>Incidental Expenses of Indian Service in Arizona—</i> General incidental expenses of the Indian service in the Territory of Arizona; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, and for educational purposes, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	\$65,000 00	\$65,000 00
<i>Incidental Expenses of Indian Service in California—</i> General incidental expenses of the Indian service in California; pay of employes, presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	75,000 00	60,000 00
<i>Incidental Expenses of Indian Service in Colorado—</i> General incidental expenses of the Indian service in Colorado Territory; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	10,000 00	5,000 00
<i>Incidental Expenses of Indian Service in Dakota—</i> General incidental expenses of the Indian service in Dakota Territory; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	20,000 00	20,000 00
<i>Incidental Expenses of Indian Service in Idaho—</i> General incidental expenses of the Indian service in Idaho Territory; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	10,000 00	10,000 00
<i>Incidental Expenses of Indian Service in Montana—</i> General incidental expenses of the Indian service in Montana Territory; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	30,000 00	20,000 00
<i>Incidental Expenses of Indian Service in Washington—</i> General incidental expenses of the Indian service in Washington Territory, including transportation of annuity goods and presents, (no special provision being made therefor by treaties;) for defraying the expenses of removal and subsistence of Indians; for educational purposes, and for pay of necessary employes, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	446	1	.....	40,000 00	25,000 00
<i>Incidental Expenses of Indian Service in Wyoming—</i> General incidental expenses of the Indian service in Wyoming Territory; presents of goods, agricultural implements, and other articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	446	1	.....	5,000 00	5,000 00
<i>Incidental Expenses of Indian Service in Nevada—</i> General incidental expenses of the Indian service in Nevada; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	35,000 00	35,000 00
<i>Incidental Expenses of Indian Service in New Mexico—</i> General incidental expenses of the Indian service in New Mexico; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, to be expended under the direction of the Secretary of the Interior	Appropriated.	18	445	1	.....	40,000 00	40,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Incidental Expenses of Indian Service in Oregon—</i> General incidental expenses of the Indian service in Oregon, including transportation of annuity goods and presents, (where no special provision therefor is made by treaties,) and for paying the expenses of the removal and subsistence of Indians in Oregon, (not parties to any treaty,) and for pay for necessary employes	Appropriated	18	446	1	.....	\$60,000 00	\$45,000 00
<i>Incidental Expenses of Indian Service in Utah Territory—</i> General incidental expenses of the Indian service in Utah Territory; presents of goods, agricultural implements, and other useful articles; and to assist them to locate in permanent abodes and sustain themselves by the pursuits of civilized life, including the necessary expenses of transportation, and for subsistence and clothing for Indians located in the Uintah Valley reservation, to be expended under the direction of the Secretary of the Interior	Appropriated	18	446	1	.....	20,000 00	20,000 00
<i>Incidental Expenses of Indian Service in Central Superintendency—</i> General incidental expenses of the Indian service at the various agencies within the Central superintendency, including rent, fuel, light, stationery, and travelling expenses of the superintendent and agents, to be expended by the Secretary of the Interior	Appropriated	18	448	1	.....	6,000 00	4,000 00
<i>Incidental Expenses of Indian Service in Northern Superintendency—</i> General incidental expenses of the Indian service at the various agencies within the Northern superintendency, including rent, fuel, light, stationery, and travelling expenses of the superintendent and agents, to be expended by the Secretary of the Interior	Appropriated	18	448	1	.....	2,000 00	2,000 00
<i>Incidental Expenses of Indian Service in Indian Territory—</i> General incidental expenses of the Indian service at the various agencies within the Indian Territory, including rent, fuel, light, stationery, and travelling expenses of the several agents, to be expended under the direction of the Secretary of the Interior	Submitted					4,000 00	
<i>Incidental Expenses of Indian Service in Minnesota—</i> General incidental expenses of the Indian service in Minnesota, including rent, fuel, light, stationery, and travelling expenses of the several agents, to be expended under the direction of the Secretary of the Interior	Submitted					3,000 00	
<i>Incidental Expenses of Indian Service in Michigan—</i> General incidental expenses of the Indian service in Michigan, including rent, fuel, light, stationery, and travelling expenses of the agent, to be expended under the direction of the Secretary of the Interior	Submitted					1,000 00	
<i>Incidental Expenses of Indian Service in Wisconsin—</i> General incidental expenses of the Indian service in Wisconsin, including rent, fuel, light, stationery, and travelling expenses of agents, to be expended under the direction of the Secretary of the Interior	Submitted					2,000 00	
MISCELLANEOUS.							
<i>Salary of Ouray, Head Chief of the Ute Nation—</i> Third instalment of annuity, to be paid to Ouray, so long as he shall be chief of the Ute Indians	April 29, 1874	18	41	3	.....	1,000 00	1,000 00
<i>Statistics and Historical Data respecting Indians of the United States—</i> Continuing the collection of statistics and historical data respecting the Indians of the United States, under the direction of the Secretary of the Interior	Appropriated	18	448	1	.....	3,500 00	3,500 00
<i>Expenses of Indian Delegations visiting Washington—</i> This amount, or so much thereof as may be necessary, to defray the expenses of Indian delegations who may visit Washington on business connected with their respective tribes	Submitted					10,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Expenses of General Council of Indians in the Indian Territory—</i>							
This amount, or so much thereof as may be necessary, to defray the expenses of a general council of certain Indians in the Indian Territory, as provided by the twelfth article of the treaty with the Cherokees of July nineteenth, eighteen hundred and sixty-six; the tenth article of the treaty with the Creeks of June fourteenth, eighteen hundred and sixty-six; the seventh article of the treaty with the Seminoles of March twenty-first, eighteen hundred and sixty-six; and the eighth article of the treaty with the Choctaws and Chickasaws of April twenty-eighth, eighteen hundred and sixty-six	July 19, 1866 June 14, 1866 Mar. 21, 1866 April 28, 1866	14 14 14 14	302 788 758 772	12 10 7 8	} -----	\$7,000 00	\$3,000 00
<i>Transportation and Delivery of Annuities and Provisions to Indians in Minnesota, Wisconsin, and Michigan—</i>							
Transportation of annuities, and the necessary expenses of the delivery of the annuities and provisions to the Indian tribes in Minnesota, Wisconsin, and Michigan	Appropriated.	18	446	1	-----	6,000 00	4,000 00
<i>Buildings for Colville Agency, Washington Territory—</i>							
This amount, or so much thereof as may be necessary, for the construction of necessary buildings at Colville agency, Washington Territory	Submitted					8,800 00	
<i>Maps for Indian Department—</i>							
This amount, or so much thereof as may be necessary, for printing, engraving, backing, coloring, and mounting one thousand maps, showing the Indian reservations in the United States and Territories, and for purchasing necessary instruments and materials so employed	Submitted					3,000 00	
<i>To make good certain Losses sustained by the Osage Indians—</i>							
For this amount, to reimburse the Osage Indians for losses sustained by pillage, and in accordance with pledges of their agent, by which the said Indians were restrained from going upon the war-path in retaliation	Submitted					5,000 00	
<i>Payment to Citizen Class of Kaskaskia, Peoria, Wea, and Piankeshaw Indians—</i>							
This amount, to be paid to fifty-five persons, formerly members of the Kaskaskia, Peoria, Wea, and Piankeshaw tribes of Indians, being their share of the balance of amount due said tribes, for money derived from the sale of their trust lands, together with amount due them for lands erroneously sold as public lands, appropriated by the 11th section of the act of March 3, 1875, to be taken from their invested funds now in the Treasury, under the act of July 12, 1862	Submitted					1,434 70	
<i>Expenses of Indian Commissions—</i>							
This amount, or so much thereof as may be necessary, to pay the expenses of the commission of citizens serving without compensation, appointed by the President under the provisions of the fourth section of the act of April tenth, eighteen hundred and sixty-nine	Appropriated.	R. S. 18	361 448	2039 1	} -----	15,000 00	15,000 00
INTEREST ON TRUST-FUND STOCKS.							
Payment of interest on certain abstracted and non-paying State stocks, belonging to the various Indian tribes, and held in trust by the Secretary of the Interior, for the fiscal year ending June 30, 1876:							
<i>Trust-fund Interest due Cherokee National Fund—</i>							
\$68,000 00 Abstracted bonds	Appropriated.	18	448	1	\$4,080 00		
13,000 00 Florida seven per cent. bonds	do				910 00		
28,000 00 North Carolina six per cent. bonds	do				1,680 00		
90,000 00 Virginia six per cent. bonds	do				5,400 00		
125,000 00 Tennessee five per cent. bonds	do				6,250 00		
118,000 00 South Carolina six per cent. bonds	do				7,080 00		
11,000 00 Louisiana six per cent. bonds	do				660 00		
						26,060 00	26,390 00
<i>Trust-fund Interest due Cherokee School Fund—</i>							
\$15,000 00 Abstracted bonds	Appropriated.	18	448	1	900 00		
7,000 00 Florida seven per cent. bonds	do				490 00		
13,000 00 North Carolina six per cent. bonds	do				780 00		
1,000 00 Virginia six per cent. bonds	do				60 00		
1,000 00 South Carolina six per cent. bonds	do				60 00		
2,000 00 Louisiana six per cent. bonds	do				120 00		
						2,410 00	2,470 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Art.			
<i>Trust-fund Interest due Chickasaw National Fund—</i>							
\$168,000 00 Arkansas six per cent. bonds	Appropriated.	18	448	1	\$10,080 00		
104,000.00 Tennessee six per cent. bonds	do				6,240 00		
66,666 66 $\frac{2}{3}$ Tennessee five-and-a-quarter per cent. bonds	do				3,500 00		
Deficiency: Arrears of interest on \$78,000 Arkansas State six per cent. bonds, from July 1, 1874, to July 1, 1875.....	Submitted				4,680 00		
						\$24,500 00	\$15,140 00
<i>Trust-fund Interest due Choctaw General Fund—</i>							
\$450,000 00 Virginia six per cent. bonds	Appropriated.	18	448	1	.....	27,000 00	27,000 00
<i>Trust-fund Interest due Creek Orphans—</i>							
\$41,800 00 Virginia six per cent. bonds	Appropriated.	18	448	1	2,508 00		
20,000 00 Tennessee five per cent. bonds	do				1,000 00		
9,000 00 Virginia six per cent. bonds, (C. & O. C. Co.)	do				540 00		
						4,048 00	4,048 00
<i>Trust-fund Interest due Delaware General Fund—</i>							
\$53,000 00 Florida seven per cent. bonds	Appropriated.	18	449	1	3,710 00		
87,000 00 North Carolina six per cent. bonds	do				5,220 00		
						8,930 00	8,930 00
<i>Trust-fund Interest due Iowas—</i>							
\$22,000 00 Florida seven per cent. bonds	Appropriated.	18	449	1	1,540 00		
21,000 00 North Carolina six per cent. bonds	do				1,260 00		
3,000 00 South Carolina six per cent. bonds	do				180 00		
9,000 00 Louisiana six per cent. bonds	do				540 00		
						3,520 00	3,790 00
<i>Trust-fund Interest due Kaskaskias, Peorias, Weas, and Piankeshaws—</i>							
\$16,300 00 Florida seven per cent. bonds	Appropriated.	18	449	1	1,141 00		
43,000 00 North Carolina six per cent. bonds	do				2,580 00		
3,000 00 South Carolina six per cent. bonds	do				180 00		
10,000 00 Louisiana six per cent. bonds	do				600 00		
5,000 00 Louisiana six per cent. bonds	do				300 00		
						4,801 00	5,251 00
<i>Trust-fund Interest due Kaskaskias, Weas, Peorias, and Piankeshaws' School Fund—</i>							
\$20,700 00 Florida seven per cent. bonds	Appropriated.	18	449	1	.....	1,449 00	1,449 00
<i>Trust-fund Interest due Menomonees—</i>							
\$19,000 00 Tennessee five per cent. bonds	Appropriated.	18	449	1	.....	950 00	950 00
<i>Trust-fund Interest due Ottawas and Chippewas—</i>							
\$3,000 00 Virginia six per cent. bonds	Appropriated.	18	449	1	180 00		
1,000 00 Tennessee five per cent. bonds	do				50 00		
						230 00	230 00
<i>Contingencies of Trust Fund—</i>							
Expenses in connection with the Indian trust fund for the fiscal year ending June 30, 1877	Appropriated.	18	449	1	.....	1,500 00	1,500 00
NOTE.—A recapitulation of the Indian estimates, as furnished by the Indian Office, will be found in the Appendix, marked "F."							
Total Indian Affairs						5,787,795 64	5,003,922 61

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Summary of expenditures incurred for the month of the fiscal year ending June 30, 1957—Continued

Description of expenditures	Fiscal year ending June 30, 1957		Fiscal year ending June 30, 1956		Total
	Actual	Estimated	Actual	Estimated	
Salaries and wages	1,234,567	1,234,567	1,234,567	1,234,567	2,469,134
Benefits	123,456	123,456	123,456	123,456	246,912
Travel	56,789	56,789	56,789	56,789	113,578
Postage and telegraph	34,567	34,567	34,567	34,567	69,134
Printing and reproduction	23,456	23,456	23,456	23,456	46,912
Telephone	12,345	12,345	12,345	12,345	24,690
Supplies and materials	98,765	98,765	98,765	98,765	197,530
Repairs and maintenance	67,890	67,890	67,890	67,890	135,780
Utilities	45,678	45,678	45,678	45,678	91,356
Insurance	32,109	32,109	32,109	32,109	64,218
Depreciation	21,098	21,098	21,098	21,098	42,196
Interest	10,987	10,987	10,987	10,987	21,974
Other	8,765	8,765	8,765	8,765	17,530
Total	1,687,900	1,687,900	1,687,900	1,687,900	3,375,800

PENSIONS.

PENSIONERS

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
UNDER THE DEPARTMENT OF THE INTERIOR.							
ARMY AND NAVY PENSIONS.							
<i>Army Pensions—</i>							
Invalids, \$12,800,000; widows and dependent relatives, \$14,100,000; survivors and widows of the war of 1812, \$1,500,000, including such contingent expenses of the agencies as may be authorized by the Commissioner of Pensions; fees for preparing vouchers and administering oaths, \$250,000; fees of examining surgeons, \$100,000; furnishing artificial limbs, or apparatus for resection, with transportation, or commutation therefor, \$50,000, (with a recommendation that the appropriation to pay for artificial limbs, or commutation therefor, be made separately to the Surgeon General's office;) and compensation to pension agents, \$200,000..	-----	R. S.	920	4692, 4791	} -----	\$29,000,000 00	\$29,500,000 00
	June 6, 1874	18	61	1			
	June 18, 1874	18	78	1, 2			
	Mar. 1, 1875	18	337	1			
	<i>Navy Pensions—</i>						
Invalids, \$190,000; widows and dependent relatives, \$335,000; furnishing artificial limbs or apparatus for resection, with transportation, or commutation therefor, \$2,000, (with a recommendation that the appropriation to pay for artificial limbs, or commutation therefor, be made separately to the Surgeon General's office;) fees of examining surgeons, \$1,000; fees for preparing vouchers and administering oaths, \$3,000; compensation to pension agents, \$2,500; and such contingent expenses as may be authorized by the Commissioner of Pensions.....	-----	R. S.	920	4692, 4791	} -----	533,500 00	500,000 00
	June 6, 1874	18	61	1			
	June 18, 1874	18	78	1, 2			
	Mar. 1, 1875	18	337	1			
	NOTE.—By the act of July 11, 1870, (vol. 16, p. 222; Revised Statutes, section 4755,) it is provided that navy pensions shall be paid out of the Navy Pension fund, upon appropriation therefor by Congress.						
Total Pensions.....	-----	-----	-----	-----	-----	29,533,500 00	30,000,000 00

NOTE.—By the act of July 11, 1870, (vol. 16, p. 222; Revised Statutes, section 4755,) it is provided that navy pensions shall be paid out of the Navy Pension fund, upon appropriation therefor by Congress.

Summary of appropriations required for the service of the State of New York, 1930-1931

Department of the Interior		Department of the Interior		Department of the Interior		Department of the Interior	
Item	Amount	Item	Amount	Item	Amount	Item	Amount
Salaries and wages of employees	\$1,000,000	Salaries and wages of employees	\$1,000,000	Salaries and wages of employees	\$1,000,000	Salaries and wages of employees	\$1,000,000
Travel expenses	\$50,000	Travel expenses	\$50,000	Travel expenses	\$50,000	Travel expenses	\$50,000
Postage and telegraph	\$10,000	Postage and telegraph	\$10,000	Postage and telegraph	\$10,000	Postage and telegraph	\$10,000
Printing and stationery	\$20,000	Printing and stationery	\$20,000	Printing and stationery	\$20,000	Printing and stationery	\$20,000
Repairs and maintenance	\$15,000	Repairs and maintenance	\$15,000	Repairs and maintenance	\$15,000	Repairs and maintenance	\$15,000
Supplies and materials	\$10,000	Supplies and materials	\$10,000	Supplies and materials	\$10,000	Supplies and materials	\$10,000
Interest on bonds and loans	\$50,000	Interest on bonds and loans	\$50,000	Interest on bonds and loans	\$50,000	Interest on bonds and loans	\$50,000
Other miscellaneous	\$10,000	Other miscellaneous	\$10,000	Other miscellaneous	\$10,000	Other miscellaneous	\$10,000
Total	\$1,255,000	Total	\$1,255,000	Total	\$1,255,000	Total	\$1,255,000

PUBLIC WORKS.

PUBLIC WORKS.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
UNDER THE TREASURY DEPARTMENT.							
PUBLIC BUILDINGS.							
Custom-house and Post Office, Albany, N. Y.— Continuation of building	Mar. 12, 1872	17	39	1	.....	\$150,000 00	
Court-house and Post Office, Atlanta, Ga.— Continuation of building	{ June 23, 1874 Appropriated.	18	228	1	{	25,000 00	\$50,000 00
		18	394	1			
Sub-treasury and Post Office, Boston, Mass.— Purchase of additional land condemned by United States courts	Mar. 3, 1873	17	524	1	\$370,000 00		
Continuation of building	do.				500,000 00	870,000 00	
Custom-house and Sub-treasury, Chicago, Ill.— Continuation of building	Appropriated.	18	394	1	.....	250,000 00	750,000 00
Custom-house and Post Office, Cincinnati, Ohio— Continuation of building	{ June 23, 1874 Appropriated.	18	227	1	{	400,000 00	600,000 00
		18	394	1			
Custom-house, Court-house, and Post Office, Evansville, Ind.— Continuation of building	{ June 23, 1874 Appropriated.	18	227	1	{	50,000 00	50,000 00
		18	394	1			
Custom-house and Post Office, Fall River, Mass.— Continuation of building	Mar. 3, 1875	18	394	1	.....	75,000 00	40,000 00
Court-house and Post Office, Grand Rapids, Mich.— Continuation of building	{ Feb. 21, 1873 Appropriated.	17	470	1	{	50,000 00	50,000 00
		18	395	1			
Custom-house and Post Office, Hartford, Conn.— Continuation of building	{ June 23, 1874 Appropriated.	18	227	1	{	200,000 00	100,000 00
		18	395	1			
Assay Office, Helena, Montana— Fencing, grading, approaches, &c	May 12, 1874	18	45	2	10,000 00		
Repayment for site	do.				1,500 00	11,500 00	
Court-house and Post Office, Lincoln, Neb.— Fencing, grading, approaches, &c	Feb. 21, 1873	17	470	1	20,000 00		
Furniture, carpets, &c	do.				25,000 00	45,000 00	
Custom-house, Louisville, Ky.— Repairs and remodelling	Feb. 19, 1875	18	332	1	.....	50,000 00	12,500 00
Custom-house, Court-house, and Post Office, Memphis, Tenn.— Continuation of building	June 23, 1874	18	227	1	.....	100,000 00	
Custom-house, Court-house, and Post Office, Nashville, Tenn.— Continuation of building	June 23, 1874	18	229	1	.....	50,000 00	
Custom-house, New Orleans, La.— Completion of building, repairs, and alterations	Appropriated.	18	394	1	.....	50,000 00	100,000 00
Post Office and Court-house, Philadelphia, Pa.— Continuation of building	{ June 23, 1874 Appropriated.	18	228	1	{	750,000 00	750,000 00
		18	395	1			
Court-house and Post Office, Raleigh, N. C.— Completion of building	{ June 23, 1874 Appropriated.	18	228	1	{ 100,000 00		
		18	395	1			
Fencing, grading, approaches, &c	do.				20,000 00		
Furniture, carpets, &c	do.				25,000 00	145,000 00	50,000 00
Appraisers' Stores, San Francisco, Cal.— Continuation of building	Appropriated.	18	395	1	.....	100,000 00	100,000 00
Sub-treasury Building, San Francisco, Cal.— Repairs of building, (completion)	Appropriated.	18	408	1	.....	27,000 00	30,000 00
Court-house and Post Office, St. Louis, Mo.— Continuation of building	{ Mar. 3, 1873 Jan. 28, 1875 Appropriated.	17	524	1	{	750,000 00	850,000 00
		18	304	1			
		18	395	1			
Court-house and Post Office, Trenton, N. J.— Completion of building	{ Mar. 18, 1872 Appropriated.	17	41	1	{ 34,973 37		
		18	395	1			
Fencing, grading, approaches, &c	do.				20,000 00		
Furniture	do.				25,000 00	79,973 37	100,000 00
Post Office, Court-house, &c., Utica, N. Y.— Continuation of building	May 31, 1872	17	194	1	.....	50,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Court-house and Post Office, New York—</i> Completion of building	Aug. 18, 1856 Appropriated.	11 18	94 395	3 1	.....	\$468,005 10	\$388,160 08
<i>Custom-house and Post Office, Port Huron, Mich.—</i> Completion of building	June 10, 1872 Appropriated.	17 18	387 395	1 1	\$26,336 47		
Fencing, grading, approaches, &c	do				20,000 00		
Furniture, carpets, &c	do				25,000 00		
						71,336 47	25,000 00
<i>Court-house and Post Office, Parkersburg, W. Va.—</i> Completion of building	Mar. 3, 1873 Appropriated.	17 18	611 395	1 1	90,631 92		
Fencing, grading, approaches, &c	do				20,000 00		
Furniture, carpets, &c	do				25,000 00		
						135,631 92	18,000 00
<i>Custom-house and Post Office, Rockland, Maine—</i> Completion of building	May 17, 1872 Appropriated.	17 18	121 395	1 1	20,000 00		
Fencing, grading, and approaches	do				15,000 00		
						35,000 00	20,000 00
<i>Treasury Building, Washington, D. C.—</i> Annual repairs	Appropriated.	18	395	1	25,000 00		
Construction of new roof, passenger elevator, and the extensive repairs of the east portico	Submitted				50,000 00		
						75,000 00	25,000 00
<i>Repairs and Preservation of Public Buildings—</i> Repairs and preservation of public buildings under control of the Treasury Department	Appropriated.	18	395	1	.....	300,000 00	250,000 00
Total Public Buildings under Treasury Department						5,363,446 86	4,358,660 08
LIGHT-HOUSES, BEACONS, AND FOG-SIGNALS.							
<i>Monhegan Fog-signal, Maine—</i> Establishing an improved fog-signal on Manana Island, (Monhegan light-station,) Maine, the purchase of the necessary land being hereby authorized	Submitted					\$10,000 00	
<i>Isle of Shoals Light-station, N. H.—</i> Rebuilding keeper's dwelling at Isle of Shoals light-station, New Hampshire	Submitted					6,000 00	
<i>Boat-landings at Light-stations, Maine, New Hampshire, and Massachusetts—</i> Boat-landings at light-stations on the coasts of Maine, New Hampshire, and Massachusetts	Submitted					10,000 00	
<i>Portland Depot, Maine—</i> Site for a light-house and buoy depot at Little Hog Island, Portland Harbor, Maine, the purchase thereof being hereby authorized	Submitted					3,000 00	
<i>Cape Ann Light-station, Mass.—</i> Building an additional keeper's dwelling at Cape Ann light-station, Massachusetts	Submitted					6,000 00	
<i>Muscle Bed Shoal Beacon, R. I.—</i> Rebuilding Muscle Bed Shoal beacon, Rhode Island	Submitted					6,000 00	
<i>Conimicut Light-station, R. I.—</i> Rebuilding the light-station at Conimicut, Rhode Island, destroyed by ice	Submitted					30,000 00	
<i>Block Island Breakwater Light-station, R. I.—</i> Range-lights at Block Island breakwater, Rhode Island	Submitted					900 00	
<i>Rondout Pier Light-station, N. Y.—</i> Establishing light to mark pier at mouth of Rondout creek, New York	Submitted					3,200 00	
<i>Light-ship for General Service—</i> Building a light-ship with steam fog-signal for an outside station	Submitted					55,000 00	
<i>Rose Island Beacon, R. I.—</i> Rebuilding Rose Island day-beacon, Narragansett bay, Rhode Island	Submitted					4,000 00	
<i>Sand Spit Beacon, N. Y.—</i> Rebuilding Sand Spit day-beacon, Sag Harbor, New York	Submitted					3,500 00	
<i>New London Depot, Conn.—</i> Repairs and improvements at the New London light-house depot, Connecticut	Submitted					3,000 00	
<i>Staten Island Depot, N. Y.—</i> Repairs and additions to wharf, ground, and buildings at the light-house depot, Staten Island, New York	Submitted					10,000 00	
<i>Tucker's Beach Light-station, N. J.—</i> Rebuilding keeper's dwelling at Tucker's Beach light-station, New Jersey	Submitted					8,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Cape Henlopen Light-station, Del.—</i> New lantern for Cape Henlopen light-station, Delaware...	Appropriated.	18	380	1	.....	\$8,000 00	\$1,100 00
<i>Mispillion Light-station, Del.—</i> Constructing a dyke to protect site from the overflow of the tide at Mispillion light-station, Delaware.....	Submitted .....				.....	4,000 00	
<i>Egg Island Light-station, N. J.—</i> Protecting site at Egg Island light-station, New Jersey, the purchase of any land found to be necessary therefor being hereby authorized.....	Submitted .....				.....	1,500 00	
<i>Cross Ledge Light-station, Delaware Bay—</i> Continuing the construction of the light-house on Cross Ledge Shoal, Delaware bay..... NOTE.—The original estimated cost of this work was \$125,000, \$75,000 of which has been heretofore appropriated.	Appropriated.	18	219	1	.....	25,000 00	
<i>Ship John Shoal Light-station, Delaware Bay—</i> Continuing the construction of the light-house on Ship John Shoal, Delaware bay; and the unexpended balance of the appropriation made by the act of March 3, 1873, for a light-house on or near the south end of Pea Patch Island, Delaware river, is hereby made available for the construction of range-lights, to guide past Bulkhead Shoals, Delaware river; authorized by the act of June 23, 1874..... NOTE.—The original estimated cost of Ship John Shoal light-station was \$125,000, \$75,000 of which has been heretofore appropriated.	Appropriated.	18	219	1	.....	25,000 00	
<i>Chincoteague Depot, Va.—</i> Buoy-shed and storehouse at Chincoteague Inlet, Virginia, the purchase of the land necessary for the site being hereby authorized.....	Submitted .....				.....	1,000 00	
<i>Steam-tender for Fourth District—</i> Building a steam-tender for service in the fourth light-house district.....	Submitted .....				.....	50,000 00	
<i>Roanoke Marshes Light-station, N. C.—</i> Rebuilding light-house at Roanoke Marshes, North Carolina.....	Appropriated.	18	381	1	.....	5,000 00	15,000 00
<i>Steam-tender for Fifth District—</i> Building a steam-tender for service in the fifth light-house district.....	Submitted .....				.....	50,000 00	
<i>Lazaretto Depot, Md.—</i> Repairs to light-house depot and wharf at Lazaretto Point, Maryland.....	Submitted .....				.....	4,000 00	
<i>Fort Ripley Light-station, S. C.—</i> Building a light-house on Fort Ripley Shoal, Charleston Harbor, South Carolina, to take the place of the light now at Castle Pinckney; and the unexpended balance of the appropriation for a screw-pile light-house at Tybee Knoll, Savannah river, made by the act approved March 3, 1873, is hereby made available for the establishment of range-lights to guide through the dredged channel, Tybee Knoll.....	Submitted .....				.....	15,000 00	
<i>Sapelo Island Light-station, Ga.—</i> Rebuilding the front beacon at Sapelo Island, Georgia.....	Submitted .....				.....	2,500 00	
<i>Charleston Depot, S. C.—</i> Establishing a light-house and buoy depot at Charleston, South Carolina, the purchase of the land necessary for a site therefor being hereby authorized.....	Submitted .....				.....	10,000 00	
<i>American Shoal Light-station, Fla.—</i> Commencing the construction of a light-house at or near American Shoal, Florida reefs, Florida.....	Submitted .....				.....	100,000 00	
<i>Cape San Blas Light-station, Fla.—</i> Protecting the site of Cape San Blas light-station, Florida.	Submitted ..				.....	5,000 00	
<i>West Rigolets Light-station, La.—</i> Constructing a breakwater and repairing West Rigolets light-station, entrance to Lake Pontchartrain, Louisiana.	Submitted .....				.....	2,000 00	
<i>South Pass Light-station, La.—</i> Wharf and repairs at South Pass light-station, Mississippi river, Louisiana.....	Submitted .....				.....	4,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Re-establishment of Light-houses, Texas—</i> Rebuilding and repairing light-houses on the coast of Texas, destroyed or damaged by the hurricane of September, 1875	Submitted					\$30,000 00	
<i>Dunkirk Light-station, N. Y.—</i> Rebuilding Dunkirk beacon, Lake Erie, New York	Appropriated	18	381	1		5,000 00	\$15,000 00
<i>Sandusky Bay Light-station, Ohio—</i> Continuing the construction of range-lights in Sandusky bay, Ohio, and the unexpended balance of the appropriation for two day-beacons in Maumee bay, Ohio, made by the act approved June 23, 1874, is hereby made available for the purpose of establishing temporary lights along the line of the dredged channel, Maumee bay, Ohio	Appropriated	18	381	1		7,000 00	8,000 00
<i>Port Salinac Light-station, Mich.—</i> Building a light-house at or near Port Salinac, between Fort Gratiot and Point aux Barques, Lake Huron, Michigan	Submitted					40,000 00	
<i>McGulpin's Point Fog-signal, Mich.—</i> Establishing a steam fog-signal at McGulpin's Point, Straits of Mackinaw, Michigan	Submitted					5,000 00	
<i>Père Marquette Light-station, Mich.—</i> Building a keeper's dwelling at Père Marquette light-station, Michigan	Submitted					5,000 00	
<i>Grosse Pointe Light-station, Ill.—</i> Protection of site at Grosse Pointe light-station, Illinois ..	Submitted					5,000 00	
<i>Milwaukee Fog-signal, Wis.—</i> Establishing a steam fog-signal at Milwaukee, Wisconsin ..	Submitted					5,000 00	
<i>Santa Barbara Light-station, Cal.—</i> Land for right of way at Santa Barbara light-station, California, the purchase of the same being hereby authorized	Submitted					500 00	
<i>Farallones Light-station, Cal.—</i> Building keeper's dwelling at Farallones light-station, California	Submitted					15,000 00	
<i>Point Bonita Light-station, Cal.—</i> Removing the light-house at Point Bonita, California, to a less elevated site	Submitted					25,000 00	
<i>Point St. George Light-station, Cal.—</i> Commencing the building of a light-house and fog-signal at or near Point St. George, California	Submitted					50,000 00	
<i>Point Fermin Light-station, Cal.—</i> Additional land for site at Point Fermin light-station, California, the purchase of the same being hereby authorized	Submitted					300 00	
<i>Roadways at Stations on Pacific Coast—</i> Land required for roadways at light-stations and fog-signal stations on the Pacific coast, the purchase of the same being hereby authorized	Submitted					5,000 00	
<i>Steam-tender for Pacific Coast—</i> Building a steam-tender for light-house service on the Pacific coast	Submitted					100,000 00	
<i>St. Helen's Bar Light-station, Oregon—</i> Establishing range-lights for crossing St. Helen's Bar, Columbia river, Oregon	Submitted					1,000 00	
<i>Pierhead Lights on Northern and Northwestern Lakes—</i> Erection of pierhead lights on the northern and northwestern lakes	Appropriated	18	380	1		20,000 00	20,000 00
Total Light-houses, Beacons, and Fog-signals						789,400 00	59,100 00
Total Public Works under Treasury Department						6,152,846 86	4,417,760 08

General object, (title of appropriation,) and details and explanations.

Date of acts, or treaties, providing for the expenditure.

References to Stats.
at Large, or to Re-
vised Statutes.

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Estimated am't
required for
each detailed
object of ex-
penditure.

Total amount to be appropriated under each head of appropriation.

Amount appropriated for the fiscal year ending June 30, 1876.

ARMORIES AND ARSENALS.

Repairs and preservation of grounds, buildings, and machinery

Appropriated.

18

387

1

\$20,000 00

\$20,000 00

Shop G: An iron-working and finishing shop for the arsenal.....

Submitted ...

\$200,000 00

NOTE.—In the progress of the arsenal toward completion, the economic reasons for commencing and pushing on the work of building this shop, in accordance with the plans adopted for the arsenal, are clear. Unless it is done, the work of building the arsenal will come nearly to a stand still at the close of this year. There is now employed on the work a carefully-selected and organized force of workmen and mechanics of all needed kinds, with necessary tools and machinery. This organization cannot be broken up, the workmen moved away, the work stopped and resumed again hereafter, without considerable loss. A fair consideration of this subject, in connection with the character of the work, will show its importance. The present low prices of material and labor of all kinds make this a favorable time for prosecuting the work as rapidly as it can be managed economically and thoroughly. The large excavation required for this shop is now much needed for filling low grounds at site of other shops.

Shop I: A wood-working and leather-working shop for the arsenal

.....do.....

65,000 00

NOTE.—The reasons for commencing this shop are the same as those given for shop G. In addition, a considerable advantage in grading and filling would be obtained by carrying on the excavations for the two shops simultaneously. It would also permit putting in the main shaft under the row of arsenal shops, by which to connect the shops with the water-power. It is expected, with this appropriation, to complete the excavations and foundations for the building, and to do as much of the masonry as the appropriation will permit. A main economic advantage of commencing the building is that it will place the work of constructing the shops in such condition that a fair amount of each kind of work, laborers' work, masonry, iron-work, and carpenters' work, will come in each year, and prevent loss by stopping one kind of work and pressing too much of another kind of work into one year. There are certain expenses connected with the construction of the arsenal—office duties; the running of the shops; masters and foremen; special machinery and tools, such as railroads, derricks, hoisting engines, &c.—which are nearly constant. There is economy in using these to their full capacity, accomplishing as much work in a year as can be done economically and well, and in completing the arsenal as soon as practicable.

Shop F: A rolling-mill and forging-shop for the armory.

Appropriated.

18

387

1

170,000 00

NOTE.—This building is now in progress. It is expected, with the appropriation asked for, to complete it. The importance of finishing this building, and placing the armory in such condition that it may be used, is clear.

One block of subaltern officers' quarters

Submitted...

27,700 00

NOTE.—This building would complete the immediate and urgent wants of the post for officers' quarters, and it is to take the place of temporary wooden buildings now in use for the same purpose. These temporary buildings were badly built, are much destroyed by rot, and cannot be used without expensive repairs. They are unhealthy, cannot be well warmed, and endanger the arsenal by fire. They are buildings that were originally built for the temporary prison that was located here during the war.

A stone fire-proof building for offices.....

Submitted . . .

78,000 00

NOTE.—This building is intended as a general office for both the armory and arsenal, and for all the business of the post. It is to be fire-proof throughout, and to contain vaults for the books, records, and funds of the arsenal. No office has ever been built for this arsenal. For the present use, rooms have been temporarily partitioned off in the north end of the west wing of shop B, (one of the finishing shops for the armory.) This furnishes sufficient office room, but the partitions are of wood, very temporary, and with only temporary heating arrangements. The office is not comfortable in winter, and there is some danger of fire, endangering the loss of a very costly building and the records of the arsenal. As the office must be built sometime, there are economical reasons for building it now.

New machinery and shop fixtures.....

Appropriated.

18

387

1

27,500 00

NOTE.—It is proposed to put in the new shops such machinery and shop fixtures as can be used with considerable economy in saving cost of buildings, and will at the same time form a part of the permanent machinery of the shops for manufacturing purposes hereafter; but this estimate is for putting main lines of shafting in shop D of the armory and preparing this shop for manufacturing work.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Rock Island Arsenal, Rock Island, Ill.—Continued.</i>							
Sewers; building new roads; care and preservation of water-power; painting and care and preservation of permanent buildings and bridges; building fences and grading grounds and repairs of and extension of railroads...	Appropriated.	18	387	1	\$22,000 00		
NOTE.—This work is almost absolutely necessary in the progress of the work of building the arsenal. The roads are required for immediate use in building operations, and should be so permanently built as to become a permanent part of the arsenal, and this work on roads, grading, and sewers can be done far more economically whilst other excavations and building are going on, and the two kinds of work, which are dependent.							
Improvement of the water-power.....	Submitted				60,000 00		
NOTE.—This estimate is for opening a channel in the rock bed of the river, and improving the wing-dam, to increase the amount of water flowing into the water-power pool during low water.							
Care and preservation of the Rock Island bridge.....	Appropriated.	18	387	1	9,000 00	\$659,200 00	\$309,500 00
NOTE.—This estimate is for care and preservation of the bridges between Davenport, Rock Island, and the island, and the road and causeway on the island connecting the bridges. It includes all ordinary expenses, but is mainly for the expense of operating the draw, for which two sets of hands, consisting of engineer, fireman, and tender, are required—this work is difficult, and excellent men must be employed—and guards for maintaining order on the long bridges in their large use by the public. This extensive use also causes considerable wear and necessity for repairs.							
<i>Benicia Arsenal Benicia, Cal.—</i>							
Putting lightning-rods on three magazines and thirteen public buildings.....	Submitted				1,675 00		
NOTE.—The absence of all signs of electricity in the atmosphere of this country, which has hitherto existed, has induced all persons to leave their buildings without lightning-rods. During the past summer, however, we have had three storms accompanied by lightning, and it is deemed advisable to adopt the usual precautions against the effects of lightning.							
One machine shop	Submitted				69,568 00		
NOTE.—The present shops are too small and are to be used for a storehouse; the money for blacksmith shop was appropriated year before last and that for carpenter shop last year. It is necessary to build this shop near the others to facilitate the work at this arsenal.							
Continuing boring artesian well, or, if artesian water is procured, for putting down permanent iron pipe and turbine wheel, to be run by flow of water, to pump up water to reservoir.....	Appropriated.	18	387	1	6,705 00		
To build a wharf at southwest corner of reserve, where the current comes very near the shore.....	Submitted				11,090 00		
NOTE.—The present wharf, although lengthened twenty-five feet three years ago, has filled out, and at low tide mud is visible at foot of outer piles.							
To repair present old shop building and convert it into a storehouse.....	do.....				5,500 00		
NOTE.—This building is required as a storehouse; if it is not occupied as such, a new storehouse will have to be built for this post.							
To build a steam-engine room and a boiler room under one roof.....	do.....				6,467 00		
NOTE.—Required for new shops.							
To purchase one Harris-Corliss steam-engine, to be obtained in Providence, R. I., and one boiler for same.....	do.....				5,975 00		
NOTE.—Required for new shops.							
Transferring machinery from machine and carpenter shops to the new shops	do.....				3,666 00		
Repairing roads and building sewers and drains.....	Appropriated.	18	387	1	9,876 00		
Grading grounds.....	Submitted				7,589 00		
Permanent repairs of post, machinery for shops, fences, &c.....	Appropriated.	18	388	1	9,907 00		
NOTE.—These amounts are required to reduce the surface of the grounds into a more comely shape, as nature has left it in a very rough state—the difference in level in some places between different parts being two hundred and three feet.							
						138,018 00	47,665 00
<i>Repairs of Arsenals—</i>							
Repairs of smaller arsenals, and to meet such unforeseen expenditures at arsenals as accidents or other contingencies during the year may render necessary.....	Appropriated.	18	388	1		100,000 00	50,000 00
Total Armories and Arsenals						917,218 00	427,165 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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FORTIFICATIONS AND OTHER WORKS OF DEFENCE.							
Fort Wayne, near Detroit, Mich.— Repair of scarp walls and modification of drainage.....	Appropriated.	13	443	1		\$25,000 00	
Fort Gorges, Portland Harbor, Maine— Completion of permanent gun-platforms	Appropriated.	17	376	1	.....	10,000 00	
Fort Preble, Portland Harbor, Maine— To complete the work	Appropriated.	18	313	1	.....	30,000 00	\$10,000 00
Fort Scammel, Portland Harbor, Maine— Continuing construction	Appropriated.	18	313	1	.....	50,000 00	20,000 00
Battery on Portland Head, Portland Harbor, Maine— Continuing construction	Appropriated.	18	313	1	.....	50,000 00	20,000 00
Batteries in Portsmouth Harbor, N. H.— To complete battery on Gerrish's Island	Appropriated.	18	313	1	\$36,000 00	60,000 00	20,000 00
To complete battery on Jerry's Point	do.				24,000 00		
Fort Warren, Boston Harbor, Mass.— Continuing construction	Appropriated.	18	313	1	.....	50,000 00	25,000 00
Battery at Long Island Head, Boston Harbor, Mass.— Continuing construction	Appropriated.	18	313	1	.....	40,000 00	30,000 00
Fort Winthrop, Boston Harbor, Mass.— Continuing construction	Appropriated.	17	468	1	.....	50,000 00	
Fort Independence, Boston Harbor, Mass.— Continuing construction	Appropriated.	17	468	1	.....	30,000 00	
Fort at Entrance of New Bedford Harbor, Mass.— Completing emplacements and traverses for three 15-inch guns at fort at Clark's Point	Appropriated.	14	488	1	.....	30,000 00	
Fort Adams, Newport Harbor, R. I.— For barbette battery	Appropriated.	18	313	1	25,000 00	30,000 00	15,000 00
For general care of the main work	do.				5,000 00		
Fort on Dutch Island, West Entrance to Narragansett Bay, R. I.— Continuing construction	Appropriated.	18	313	1	.....	35,000 00	20,000 00
Fort Trumbull, New London Harbor, Conn.— For construction of south exterior battery	Appropriated.	18	313	1	.....	40,000 00	20,000 00
Fort Schuyler, East River, N. Y.— Continuing the construction	Appropriated.	18	313	1	.....	50,000 00	25,000 00
Fort at Willett's Point, East River, N. Y.— Continuing the construction	Appropriated.	18	313	1	.....	75,000 00	25,000 00
Castle Williams, Governor's Island, New York Harbor— To remove guns in barbette and construct a roof over the terreplein—estimate for roof	Appropriated.	13	353	1	.....	8,000 00	
Fort Hamilton and Additional Batteries, New York Harbor— Continuing the construction	Appropriated.	18	314	1	.....	10,000 00	10,000 00
Fort on Site of Fort Tompkins, New York Harbor— For this work and the north and south cliff batteries	Appropriated.	18	314	1	.....	50,000 00	20,000 00
Battery Hudson, Staten Island, New York Harbor— Completing the battery	Appropriated.	18	314	1	21,000 00	30,000 00	15,000 00
Completing south mortar battery in rear of Battery Hudson extension	do.				9,000 00		
Fort Mifflin, Delaware River, Pa.— Continuing operations on the fort	Appropriated.	18	314	1	50,000 00	65,000 00	25,000 00
Completing the mortar battery	do.				15,000 00		
Fort Delaware, Delaware River, Del.— To increase the protection of service magazines	Appropriated.	18	26	1	20,000 00	33,000 00	
Repair of counter-scarp	do.				500 00		
Repair of tide-gates of ditches	do.				2,500 00		
To construct torpedo casemate	do.				10,000 00		
Battery at Finn's Point, Delaware River, N. J.— Continuing the construction	Appropriated.	18	314	1	.....	40,000 00	25,000 00
Fort opposite Fort Delaware, Delaware Shore— Continuing the construction	Appropriated.	18	314	1	.....	40,000 00	25,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Fort McHenry, Baltimore Harbor, Md.—</i> To build 700 feet more of parapet and terreplein, with magazines	Appropriated.	18	314	1		\$50,000 00	\$20,000 00
<i>Fort Foote, Potomac River, Md.—</i> For modification of the main fort, and to preserve from injury and deterioration work already done, and complete unfinished work	Appropriated.	17	469	1	.....	50,000 00	
<i>Fort Washington, Potomac River, Md.—</i> To complete the demilune battery	Appropriated.	17	469	1	.....	35,000 00	
<i>Fort Monroe, Hampton Roads, Va.—</i> Continuing operations	Appropriated.	18	314	1	.....	50,000 00	20,000 00
<i>Artesian Well at Fort Monroe, Va.—</i> Continuing operations	Appropriated.	12	67	1	.....	10,000 00	
<i>Fort Moultrie, Charleston Harbor, S. C.—</i> To complete the work	Appropriated.	18	314	1	.....	55,000 00	15,000 00
<i>Fort Sumter, Charleston Harbor, S. C.—</i> To complete the work	Appropriated.	18	26	1	.....	45,000 00	
<i>Fort Jackson, Savannah River, Ga.—</i> To complete the work	Appropriated.	17	377	1	.....	8,000 00	
<i>Fort Pulaski, mouth of Savannah River, Ga.—</i> Continuing operations	Appropriated.	18	314	1	.....	50,000 00	25,000 00
<i>Fort Taylor and Batteries, Key West, Florida—</i> Protection of cover face from further encroachment of the sea	Appropriated.	18	314	1	\$25,000 00		
Constructing the batteries	do.				25,000 00	50,000 00	15,000 00
<i>Fort Jefferson, Garden Key, Florida—</i> Completing covering of barbette magazines, and for modification of sewerage of the work, and other provisions for the health of the garrison	Appropriated.	17	469	1	.....	25,000 00	
<i>Fort Pickens, Pensacola Harbor, Florida—</i> Continuation of earthen barbette batteries	Appropriated.	18	314	1	.....	50,000 00	25,000 00
<i>Fort McRee, Pensacola Harbor, Florida—</i> Construction of earthen barbette batteries	Appropriated.	11	121	1	.....	50,000 00	
<i>Fort Morgan, entrance to Mobile Bay, Ala—</i> Continuation of earthen barbette batteries	Appropriated.	18	314	1	.....	50,000 00	25,000 00
<i>Fort Jackson, Mississippi River—</i> Continuing operations	Appropriated.	18	314	1	.....	25,000 00	25,000 00
<i>Fort St. Philip, Mississippi River—</i> Continuing operations	Appropriated.	18	314	1	.....	25,000 00	25,000 00
<i>Fort at Fort Point, entrance to San Francisco Harbor, Cal.—</i> Continuing operations	Appropriated.	18	314	1	.....	60,000 00	25,000 00
<i>Fort at Lime Point, entrance to San Francisco Harbor, Cal.—</i> Continuing operations	Appropriated.	18	314	1	.....	60,000 00	20,000 00
<i>Fort at Alcatraz Island, San Francisco Harbor, Cal.—</i> Continuing operations	Appropriated.	18	314	1	.....	50,000 00	25,000 00
<i>Fort at San Diego, Cal.—</i> Continuing operations	Appropriated.	17	469	1	.....	50,000 00	
<i>Defensive Works in Oregon and Washington, at mouth of the Columbia River—</i> For extensive repairs	Appropriated.	13	354	1	.....	15,000 00	
<i>Torpedoes for Harbor Defence and Preservation of the same—</i> To continue the purchase of such parts of the torpedo apparatus and material as cannot be suddenly obtained in time of war	Appropriated.	18	314	1	.....	150,000 00	125,000 00
<i>Contingencies of Fortifications—</i> Contingencies, and preservation and repair of fortifications for which there may be no special appropriation available	Appropriated.	18	314	1	.....	100,000 00	75,000 00
Total Fortifications and other Works of Defence						2,044,000 00	815,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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IMPROVING HARBORS AND RIVERS.							
Dredging Superior Bay, Wis.—							
Continuing improvement at harbor of Du Luth	Appropriated.	18	456	1	\$60,000 00		
Improving natural entrance to Superior bay	do				10,000 00		
						\$70,000 00	\$35,000 00
Improving Harbor at Ontonagon, Mich.							
Continuing the improvement	Appropriated.	18	456	1	.....	60,000 00	25,000 00
Improving Eagle Harbor, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	75,000 00	10,000 00
Improving Harbor at Marquette, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	35,000 00	15,000 00
Improving Fox and Wisconsin Rivers—							
Continuing the improvement	Appropriated.	18	456	1	.....	500,000 00	500,000 00
Improving Harbor at Green Bay, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	20,000 00	10,000 00
Improving Harbor at Menomonee, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	40,000 00	25,000 00
Harbor of Refuge at Entrance of Sturgeon Bay Canal—							
Continuing the improvement	Appropriated.	18	237	1	.....	40,000 00	
Improving Harbor at Ahnapee, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	25,000 00	25,000 00
Improving Harbor at Two Rivers, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	25,000 00	15,000 00
Improving Harbor at Manitowoc, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	25,000 00	10,000 00
Improving Harbor at Sheboygan, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	12,000 00	12,000 00
Improving Harbor at Port Washington, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	25,000 00	10,000 00
Improving Harbor at Milwaukee, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	95,000 00	25,000 00
Improving Harbor at Kenosha, Wis.—							
Continuing the improvement	Appropriated.	18	456	1	.....	15,000 00	15,000 00
Improving Harbor at Chicago, Ill.—							
For dredging near light-house	Appropriated.	18	456	1	.....	5,000 00	78,000 00
Improving Harbor at Calumet, Ill.—							
Continuing the improvement	Appropriated.	18	456	1	.....	65,000 00	25,000 00
Improving Harbor at Michigan City, Ind.—							
Continuing the improvement	Appropriated.	18	456	1	.....	60,000 00	50,000 00
Improving Harbor at Frankfort, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	25,000 00	10,000 00
Improving Harbor at Manistee, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	50,000 00	25,000 00
Improving Harbor at Ludington, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	36,000 00	10,000 00
Improving Harbor at Pentwater, Mich.—							
Continuing the improvement	Appropriated.	17	561	1	.....	49,200 00	
Improving Harbor at White River, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	39,500 00	10,000 00
Improving Harbor at Muskegon, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	21,000 00	25,000 00
Improving Harbor at Grand Haven, Mich.—							
Continuing the improvement	Appropriated.	18	238	1	.....	51,000 00	
Improving Harbor at Black Lake, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	30,000 00	15,000 00
Improving Harbor at Saugatuck, Mich.—							
Continuing the improvement	Appropriated.	18	456	1	.....	10,000 00	10,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Improving Harbor at St. Joseph's, Mich.—</i> Continuing the improvement	Appropriated.	18	461	1		\$15,500 00	\$35,000 00
<i>Improving Harbor at South Haven, Mich.—</i> Continuing the improvement	Appropriated.	18	456	1	.....	80,000 00	10,000 00
<i>Improving St. Mary's River and St. Mary's Falls Canal, Mich.—</i> Continuing the improvement	Appropriated.	18	456	1	.....	300,000 00	200,000 00
<i>Improving Harbor at Cheboygan, Mich.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	45,000 00	15,000 00
<i>Improving Au Sable River, Mich.—</i> Continuing the improvement	Appropriated.	17	371	1	.....	2,500 00	
<i>Improving Saginaw River, Mich.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	11,000 00	30,000 00
<i>Improving Harbor of Refuge, Lake Huron, Mich.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	200,000 00	100,000 00
<i>Improving Harbor at Monroe, Mich.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	20,000 00	10,000 00
<i>Improving Harbor at Toledo, Ohio—</i> Continuing the improvement	Appropriated.	18	457	1	.....	200,000 00	75,000 00
<i>Improving Harbor at Sandusky City, Ohio—</i> Continuing the improvement	Appropriated.	18	457	1	.....	80,000 00	25,000 00
<i>Improving Harbor at Vermillion, Ohio—</i> Continuing the improvement	Appropriated.	18	457	1	.....	5,000 00	10,000 00
<i>Breakwater at Cleveland Harbor, Ohio—</i> Commencing breakwater authorized by Congress	Appropriated.	18	461	1	.....	200,000 00	50,000 00
<i>Improving Harbor at Ashtabula, Ohio—</i> Continuing the improvement	Appropriated.	18	457	1	.....	20,000 00	25,000 00
<i>Improving Harbor at Erie, Pa.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	50,000 00	80,000 00
<i>Improving Harbor at Port Clinton, Ohio—</i> Continuing the improvement	Appropriated.	18	457	1	.....	20,000 00	5,000 00
<i>Improving Harbor at Dunkirk, N. Y.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	60,000 00	35,000 00
<i>Improving Harbor at Buffalo, N. Y.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	200,000 00	100,000 00
<i>Improving Harbor at Wilson, N. Y.—</i> Continuing the improvement	Appropriated.	18	461	1	.....	20,000 00	10,000 00
<i>Improving Harbor at Olcott, N. Y.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	20,000 00	10,000 00
<i>Improving Harbor at Oak Orchard, N. Y.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	6,000 00	10,000 00
<i>Improving Harbor at Pultneyville, N. Y.—</i> Continuing the improvement	Appropriated.	18	457	1	.....	21,000 00	10,000 00
<i>Improving Harbor at Great Sodus Bay, N. Y.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	15,000 00	10,000 00
<i>Improving Harbor at Little Sodus Bay, N. Y.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	17,000 00	10,000 00
<i>Improving Harbor at Oswego, N. Y.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	200,000 00	90,000 00
<i>Improving Harbor at Ogdensburg, N. Y.—</i> Increasing width of channel along the docks fifty feet	Appropriated.	18	458	1	.....	15,000 00	5,000 00
<i>Improving Harbor at Burlington, Vt.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	50,000 00	25,000 00
<i>Improving Harbor at Swanton, Vt.—</i> Repair of existing work	Appropriated.	18	458	1	.....	10,000 00	10,000 00
<i>Improving Otter Creek, Vt.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	43,100 00	5,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Improving Falls of St. Anthony, Minn.—</i> Continuing the improvement	Appropriated.	18	458	1		\$125,000 00	\$75,000 00
<i>Improving Mississippi River above the Falls of St. Anthony—</i> Continuing the improvement	Appropriated.	18	458	1	.....	75,000 00	25,000 00
<i>Constructing Lock and Dam at Meeker's Island, Mississippi River—</i> Continuing the construction	Appropriated.	17	562	1	.....	300,000 00	
<i>Improving Minnesota River—</i> Continuing the improvement	Appropriated.	18	458	1	.....	60,000 00	10,000 00
<i>Improving Upper Mississippi River—</i> Continuing operations	Appropriated.	18	458	1	.....	30,000 00	25,000 00
<i>Improving Illinois River—</i> Continuing operations	Appropriated.	18	458	1	.....	122,000 00	75,000 00
<i>Improving Des Moines Rapids, Mississippi River—</i> Continuing operations	Appropriated.	18	458	1	.....	75,000 00	480,000 00
<i>Improving Rock Island Rapids, Mississippi River—</i> Continuing operations	Appropriated.	18	458	1	.....	50,000 00	50,000 00
<i>Improving Mississippi, Missouri, and Arkansas Rivers—</i> Continuing operations	Appropriated.	18	458	1	.....	373,000 00	100,000 00
<i>Annual Expense of Gauging the Waters of the Lower Mississippi River and its Tributaries—</i> Continuing observations of rise and fall of the river and its chief tributaries, as required by joint resolution of February 21, 1871	Appropriated.	16	598	1	.....	5,000 00	
<i>Improving White and St. Francis Rivers—</i> Continuing the improvement	Appropriated.	17	562	1	.....	50,000 00	
<i>Improving Mississippi River between the Mouths of Illinois and Ohio Rivers—</i> Continuing the improvement	Appropriated.	18	458	1	.....	1,050,000 00	200,000 00
<i>Improving Ohio River—</i> Continuing the improvement, including purchase of sites for dams and locks, not exceeding \$15,000	Appropriated.	18	458	1	.....	900,000 00	300,000 00
<i>Improving Wabash River—</i> Continuing the improvement	Appropriated.	18	458	1	.....	145,000 00	40,000 00
<i>Improving Upper Monongahela River near Morgantown, W. Va.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	115,000 00	22,000 00
<i>Improving Great Kanawha River, W. Va.—</i> Continuing the improvement, including purchase of sites for dams and locks, not exceeding \$15,000	Appropriated.	18	458	1	.....	1,000,000 00	300,000 00
<i>Improving Tennessee River—</i> Continuing operations above Chattanooga	Appropriated.	18	458	1	\$50,000 00		
Continuing operations below Chattanooga, including Muscle Shoals.....	do.....				800,000 00	850,000 00	400,000 00
<i>Improving Cumberland River below Nashville, Tenn.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	175,000 00	25,000 00
<i>Improving Cumberland River above Nashville, Tenn.—</i> Extending the improvement of Cumberland river to the second division, between Nashville and Point Burnside ..	Submitted ..				.....	100,000 00	
<i>Improving Yazoo River, Tenn.—</i> Continuing the improvement	Appropriated.	18	458	1	.....	75,000 00	12,000 00
<i>Improving Ouachita River—</i> Continuing the improvement	Appropriated.	17	562	1	.....	26,000 00	
<i>Improving Mouth of Mississippi River—</i> Continuing the improvement	Appropriated.	18	458	1	.....	150,000 00	250,000 00
<i>Examinations and Surveys at South Pass of the Mississippi River—</i> To ascertain, in current and next fiscal years, as required by act of March 3, 1875, the depth of water and width of channel secured and maintained from time to time by James B. Eads, at South Pass of the Mississippi river, and to enable the Secretary of War to report during the construction of the work the payments made from time to time and the probable times of other payments, and to report during the construction of the work all important facts relating to the progress of the same, materials used, and the character and permanency with which the said jetty and auxiliary works are being constructed	Submitted ..				.....	30,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Improving Tombigbee River, Miss.—</i> Continuing the improvement.....	Appropriated.	17	562	1	.....	\$46,500 00	
<i>Improving Harbor at Galveston, Texas—</i> Continuing operations	Appropriated.	18	461	1	.....	350,000 00	\$150,000 00
<i>Removing Raft in Red River—</i> Continuing operations	Appropriated.	18	459	1	.....	30,000 00	20,000 00
<i>Improving Warrior and Tombigbee Rivers—</i> Continuing operations	Appropriated.	18	461	1	.....	50,000 00	25,000 00
<i>Improving Harbor at Cedar Keys, Fla.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	30,000 00	15,000 00
<i>Improving Chattahoochee and Flint Rivers—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	50,000 00	25,000 00
<i>Improving Apalachicola River, Fla.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	10,000 00	10,000 00
<i>Improving Choctawhatchee River, Fla. and Ala.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	10,000 00	5,000 00
<i>Improving Harbor at Charleston, S. C.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	10,000 00	10,000 00
<i>Improving Harbor at Savannah, Ga.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	150,000 00	70,000 00
<i>Improving Oostenaula and Coosawattee Rivers, Ga.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	13,000 00	5,000 00
<i>Improving Inside Passage between Fernandina and St. John's, Fla.—</i> Continuing the improvement	Submitted .....				.....	50,000 00	
<i>Improving Susquehanna River below Havre de Grace, Md.—</i> Continuing the improvement.....	Appropriated.	14	71	1	.....	50,000 00	
<i>Improving Elk River, Md.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	20,000 00	5,000 00
<i>Improving Harbor at Baltimore, Md.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	160,000 00	75,000 00
<i>Improving Chester River at Kent Island Narrows, Md.—</i> Continuing the improvement.....	Appropriated.	18	240	1	.....	5,000 00	
<i>Improving Wicomico River, Md.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	20,000 00	5,000 00
<i>Improving Harbor at Washington and Georgetown—</i> Continuing the improvement.....	Appropriated.	17	560	1	.....	564,000 00	
<i>Improving Mouth of Occoquan River, Va.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	3,000 00	5,000 00
<i>Improving Aquia Creek, Va.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	10,500 00	2,000 00
<i>Improving Mouth of Nomoni Creek, Va.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	1,000 00	5,000 00
<i>Improving Accotink Creek, Va.—</i> Continuing the improvement	Appropriated.	17	373	1	.....	14,000 00	
<i>Improving Rappahannock River, Va.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	44,000 00	5,000 00
<i>Improving James River, Va.—</i> Continuing the improvement.....	Appropriated.	18	459	1	.....	150,000 00	50,000 00
<i>Improving Appomattox River, Va.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	113,000 00	30,000 00
<i>Improving South Branch of Elizabeth River, Va.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	8,500 00	5,000 00
<i>Improving Nansemond River, Va.—</i> Continuing the improvement	Appropriated.	18	459	1	.....	7,000 00	5,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Improving Roanoke River, N. C.—</i> Continuing the improvement	Appropriated	18	240	1		\$42,500 00	
<i>Improving Cape Fear River, N. C.—</i> Continuing the improvement	Appropriated	18	459	1	.....	210,000 00	\$150,000 00
<i>Constructing Piers in Delaware Bay, near Lewes, Del.—</i> Continuing the construction	Appropriated	18	{ 457 459 }	{ 1	.....	100,000 00	40,000 00
<i>Improving Delaware River below Petty's Island—</i> Continuing the improvement	Appropriated	18	459	1	.....	100,000 00	
<i>Improving Delaware River between Trenton and White Hill, N. J.—</i> Continuing the improvement	Appropriated	18	459	1	.....	25,000 00	10,000 00
<i>Constructing Ice-Harbor at Chester, Pa.—</i> Constructing ice-harbor	Submitted				.....	6,000 00	
<i>Improving Harbor at Wilmington, Del.—</i> Continuing the improvement	Appropriated	18	459	1	.....	20,000 00	10,000 00
<i>Piers of Ice-Harbor at New Castle, Del.—</i> Continuing the construction	Appropriated	18	457	1	.....	40,500 00	20,000 00
<i>Improving Schuylkill River, Pa.—</i> Continuing the improvement	Appropriated	18	459	1	.....	60,000 00	20,000 00
<i>Improving Broadkill River, Del.—</i> Continuing the improvement	Appropriated	17	564	1	.....	30,000 00	
<i>Improving Cohansey Creek, N. J.—</i> Continuing the improvement	Appropriated	17	564	1	.....	10,000 00	
<i>Improving Hudson River, N. Y.—</i> Continuing the improvement	Appropriated	18	459	1	.....	73,000 00	40,000 00
<i>Improving Harbor at Rondout, N. Y.—</i> Continuing the improvement	Appropriated	17	564	1	.....	74,000 00	
<i>Improving Passaic River, N. J.—</i> Continuing the improvement	Appropriated	18	459	1	.....	34,000 00	20,000 00
<i>Removing Obstructions in East River and Hell Gate, N. Y.—</i> Continuing the work	Appropriated	18	460	1	.....	450,000 00	250,000 00
<i>Improving Harbor at Port Chester, N. Y.—</i> Continuing the improvement	Appropriated	17	374	1	.....	60,000 00	
<i>Dredging in Hudson River in front of Jersey City—</i> Continuing the work	Appropriated	18	457	1	.....	76,800 00	25,000 00
<i>Improving Harlem River, N. Y.—</i> Continuing the improvement	Appropriated	18	461	1	.....	40,000 00	10,000 00
<i>Improving Harbor at Hyannis, Mass.—</i> Continuing the improvement	Appropriated	18	241	1	.....	10,000 00	
<i>Improving Taunton River, Mass.—</i> Continuing the improvement	Appropriated	18	460	1	.....	5,000 00	10,000 00
<i>Improving Harbor at Fall River, Mass.—</i> Continuing the improvement	Appropriated	18	460	1	.....	20,000 00	10,000 00
<i>Improving Harbor at New Bedford, Mass.—</i> Continuing the improvement	Appropriated	18	461	1	.....	14,000 00	10,000 00
<i>Improving Breakwater at Block Island, R. I.—</i> Continuing the improvement	Appropriated	18	460	1	.....	40,000 00	20,000 00
<i>Improving Providence River, R. I.—</i> Continuing the improvement	Appropriated	17	374	1	.....	5,000 00	
<i>Improving Harbor at Stonington, Conn.—</i> Continuing the improvement	Appropriated	18	460	1	.....	50,000 00	25,000 00
<i>Improving Harbor at New Haven, Conn.—</i> Continuing the improvement, should Congress see fit to direct the construction of the breakwater	Appropriated	18	460	1	.....	150,000 00	10,000 00
<i>Improving Connecticut River below Hartford, Conn.—</i> Continuing the improvement	Appropriated	18	460	1	.....	50,000 00	20,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Improving Harbor at Milford, Conn.—</i> Continuing the improvement	Appropriated.	18	460	1		\$55,000 00	\$13,000 00
<i>Improving Housatonic River, Conn.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	5,000 00	5,000 00
<i>Improving Harbor at Bridgeport, Conn.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	25,000 00	15,000 00
<i>Improving Harbor at Southport, Conn.—</i> Continuing the improvement	Appropriated.	18	461	1	.....	5,000 00	5,000 00
<i>Improving Harbor at Norwalk, Conn.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	8,000 00	7,000 00
<i>Improving Harbor at Port Jefferson, Long Island, N. Y.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	20,000 00	15,000 00
<i>Improving Penobscot River, Maine—</i> Continuing the improvement	Appropriated.	18	460	1	.....	12,000 00	25,000 00
<i>Improving Richmond Island, Maine—</i> Continuing the improvement	Appropriated.	18	460	1	.....	15,000 00	15,000 00
<i>Improving Cocheco River, N. H.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	36,000 00	25,000 00
<i>Improving Merrimac River, Mass.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	27,000 00	12,000 00
<i>Improving Entrance of Salem Harbor, Mass.—</i> Continuing the improvement	Appropriated.	18	241	1	.....	23,000 00	
<i>Improving Kennebec River, Maine—</i> Continuing the improvement	Appropriated.	16	541	1	.....	5,000 00	
<i>Improving Harbor at Boston, Mass.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	60,000 00	100,000 00
<i>Improving Harbor at Plymouth, Mass.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	10,000 00	10,000 00
<i>Improving Harbor at Provincetown, Mass.—</i> Continuing the improvement	Appropriated.	18	460	1	.....	5,000 00	5,000 00
<i>Improving Lower Willamette and Columbia Rivers from Portland, Oregon, to the Sea—</i> Continuing the improvement	Appropriated.	18	460	1	.....	50,000 00	20,000 00
<i>Improving Upper Willamette River, Oregon—</i> Continuing the improvement	Appropriated.	18	460	1	.....	30,000 00	25,000 00
<i>Improving Upper Columbia River, including Snake River—</i> Continuing operations	Appropriated.	18	460	1	.....	30,000 00	35,000 00
<i>Breakwater at Wilmington, Cal.—</i> Continuing operations	Appropriated.	18	461	1	.....	100,000 00	30,000 00
<i>Improving Sacramento and Feather Rivers, Cal.—</i> Continuing the improvement	Appropriated.	18	461	1	.....	20,000 00	15,000 00
<i>Improving Oakland Harbor, Cal.—</i> Continuing the improvement	Appropriated.	18	461	1	.....	250,000 00	100,000 00
<i>Examinations, Surveys, and Contingencies of Rivers and Harbors—</i> Examinations and surveys of rivers and harbors, and for incidental repairs of harbors for which there is no special appropriation	Appropriated.	18	461	1	.....	150,000 00	50,000 00
<i>Surveys and Estimates for Improvements on Transportation Routes to the Seaboard—</i> Completing the surveys and estimates for the improvements recommended by the Senate Select Committee on Transportation Routes to the Seaboard upon the four routes indicated in the report of said Committee	Appropriated.	18	461	1	.....	100,000 00	10,000 00
<i>Surveys of Northern and Northwestern Lakes and Mississippi River—</i> Continuing surveys of Lakes Erie and Ontario; determination of points in aid of State surveys and construction of maps; continuation of triangulation south from Chicago and east to Lake Erie; survey of the Mississippi river, and miscellaneous	Appropriated.	18	389	1	.....	184,000 00	150,000 00
Total Harbors and Rivers						14,301,100 00	6,293,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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BUILDINGS AND GROUNDS IN AND AROUND WASHINGTON.							
<i>Improvement and Care of Public Grounds—</i>							
Filling in and improving grounds south of Executive Mansion.....	Appropriated	18	392	1	\$10,000 00		
Ordinary care and extension of greenhouses at the nursery.....	do				3,000 00		
Ordinary care of Lafayette square.....	do				2,000 00		
Annual repair of fences.....	do				2,000 00		
Manure and hauling of the same.....	do				8,000 00		
Painting iron fences.....	do				4,000 00		
Repair of seats.....	do				1,000 00		
Purchase and repair of tools.....	do				1,000 00		
Trees, tree-stakes, lime, and whitewashing.....	do				5,000 00		
Removing snow and ice.....	do				1,000 00		
Flowers, pots, twine, Italian lycopodium, &c.....	do				1,000 00		
Purchase of stock for nursery, and care of the same.....	do				2,000 00		
Making cages and boxes for the sparrows.....	do				500 00		
Abating nuisances.....	do				1,000 00		
Care of and repairs to fountains in the public grounds.....	do				1,000 00		
Continuing the improvement of reservation No. 3.....	do				10,000 00		
Excavating bottom and paving sides of lake.....	Submitted				5,000 00		
Improving Stanton Place.....	do				10,000 00		
Granite coping and fence in front of Executive Mansion along Pennsylvania avenue.....	do				7,450 00		
Removing the cast-iron fence from reservation on Pennsylvania avenue and Twentieth street, and recasting it into park posts, and for setting the same, and for chain.....	do				1,500 00		
Paving with asphalt the walks in Lafayette, Franklin, Judiciary, and Lincoln squares, and the Washington circle.....	do				34,100 00		
For various reservations.....	do				20,000 00		
Paving with asphalt the circular roadway in front of the Executive Mansion.....	do				13,920 00		
For improving Scott square, to harmonize with the statue of Gen. J. B. McPherson, in accordance with act of Congress approved March 3, 1875, vol. 18, page 391.....	do				5,000 00		
Enclosing and improving the circle at intersection of Massachusetts and New Jersey avenues with an iron fence.....	do				3,000 00		
Constructing two ornamental music stands, to be placed in the Smithsonian and Executive Mansion grounds.....	do				3,000 00		
Taking down the old brick building in Armory square, the materials to be sorted, sold at auction, and the proceeds applied to improving the square.....	do				1,200 00		
Pedestal for statue of Gen. George H. Thomas.....	do				40,000 00		
For illumination of the Executive Mansion and grounds on the one-hundredth anniversary of the independence of the United States.....	do				1,500 00		
Improving reservation No. 17, to harmonize with the grades around it as established by the Commissioners of the District of Columbia.....	do				20,000 00		
Grading and enclosing with iron fences reservations as follows: Rhode Island avenue, Twelfth and P streets; Massachusetts avenue, Twentieth and P streets; Massachusetts avenue, Twenty-first and Q streets; New Hampshire avenue, Twentieth and O streets; Pennsylvania avenue, Third and B streets east.....	do				10,000 00		
Grading and enclosing with posts and chain the following reservations, viz: Maryland avenue, Third and B streets; Pennsylvania avenue, Third and B streets east; Maryland avenue, Second and B streets; New York avenue, M and First streets north.....	do				5,000 00		
Three thousand yards of asphalt walks to be laid in the Smithsonian grounds.....	do				4,500 00		
						\$237,670 00	\$119,350 00
<i>Repairs, Fuel, &c., Executive Mansion—</i>							
Repairs of the Executive Mansion.....	Appropriated	18	392	1	10,000 00		
Refurnishing the same.....	do				10,000 00		
Fuel for the Executive Mansion and greenhouses.....	do				5,000 00		
Care of, and necessary repair to, the greenhouses.....	do				5,000 00		
Removing the present wood superstructure of the greenhouses, and replacing the same with iron.....	Submitted				55,000 00		
						85,000 00	30,000 00
<i>Lighting, &c., the Capitol, Executive Mansion, &c.—</i>							
Gas.....	Appropriated	18	393	1	35,000 00		
Pay of lamplighters, gas-fitters, plumbers, plumbing, lamps, lamp-posts, matches, materials for the electrical battery, and repairs of all kinds.....	do				15,000 00		
Fuel for watchmen's lodges and for greenhouses at the nursery.....	do				1,000 00		
						51,000 00	56,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.[illegible]

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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Buildings and Grounds, Military Academy—Continued.							
Construction of storage reservoir for water supply of the post, and pipes from same.....	Submitted				\$15,000 00		
NOTE.—Such a reservoir is now necessary for the certain supply of water at times of drouth, and it will be essential for maintaining a sufficient supply in summer for flushing sewers, the construction of which for the post is well advanced, and which, embracing the whole post, it is expected will be finished the coming fiscal year, should the appropriation asked for such object in this estimate be granted.							
Continuing parapet wall on road leading along cliff to south wharf	Appropriated.	18	469	1	500 00		
Laying foundation for and beginning superstructure of building for lecture room and examination hall, and which could also be used for the military museum, in accordance with plan and estimate heretofore forwarded	Submitted				15,000 00		
						\$89,000 00	\$42,500 00
Total Military Academy						89,000 00	42,500 00
UNDER QUARTERMASTER GENERAL.							
Permanent Buildings at Sea-coast Forts—							
Commencing the erection of permanent structures, of brick or stone, at such forts on the sea-coast as it may be deemed by the War Department necessary for the health and comfort of officers and soldiers, comprising their garrisons	Submitted					500,000 00	
Total Public Works under War Department						19,888,238 44	8,511,915 00
UNDER THE NAVY DEPARTMENT.							
NAVY YARDS AND STATIONS.							
Navy Yard, Boston, Mass.—							
Boundary wall	Submitted				20,000 00		
Yards and Docks' workshop	do				40,000 00		
Tracks and cars	do				20,000 00		
Paving and grading	do				10,000 00		
Wet basin, completing	do				10,000 00		
						\$100,000 00	
Navy Yard, New London, Conn.—							
Commencing permanent improvements	Appropriated.	18	393	1		40,000 00	\$40,000 00
Navy Yard, Brooklyn, N. Y.—							
Retaining crib-work, cob dock	Submitted				75,000 00		
Crib-work on the east and southeast faces of the ordnance dock; filling in, grading, and improving said dock; planking face of the dock; laying iron shot beds; laying railroad between the avenues of gun-park to facilitate moving of guns, &c.	do				25,000 00		
Timber and knee basin, completing	do				40,000 00		
						140,000 00	
Navy Yard, League Island, Pa.—							
Continuing work of preparation	Appropriated.	18	393	1		500,000 00	200,000 00
Navy Yard, Norfolk, Va.—							
Timber shed, No. 32	Submitted				25,000 00		
Building shell-house at Craney Island	do				20,000 00		
						45,000 00	
Navy Yard, Pensacola, Fla.—							
Timber shed, No. 11	Appropriated.	18	393	1	20,000 00		
Machine shop, steam engineering	do				80,000 00		
						100,000 00	150,000 00
Navy Yard, Mare Island, Cal.—							
Continuance of work begun	Appropriated.	18	393	1		300,000 00	200,000 00
Repairs and Preservation at Navy Yards—							
Repairs at different navy yards and stations, and preservation of the same	Appropriated.	18	394	1		500,000 00	500,000 00
Total Navy Yards and Stations						1,725,000 00	1,090,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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UNDER THE DEPARTMENT OF THE INTERIOR.							
PUBLIC BUILDINGS.							
Capitol Extension— Work on the Capitol, and for general care and repairs thereof	Appropriated.	18	384-5	1		\$60,000 00	\$54,500 00
Improving Capitol Grounds— Improving Capitol grounds	Appropriated.	18	384	1	\$150,000 00	400,000 00	200,000 00
Paving roadway and footwalks in Capitol grounds	do.				250,000 00		
Stable for Mail Wagons for House of Representatives— Constructing stable on lot south of the Capitol, recently purchased by the United States	Submitted				.....	15,000 00	
Buildings and Grounds, Government Hospital for the Insane— Enlarging and improving the gas-works, slaughter-house, drainage, and laundry of the hospital, and for the erection, finishing, and fitting up of an enlarged and improved bake-house and oven, including storeroom for flour and lodgings for bakers	Appropriated.	18	386	1	15,000 00	225,000 00	28,740 00
General repairs and improvements	do.				10,000 00		
Extension of the accommodations of the hospital by the erection of a separate building for the female patients. (The entire estimated cost of such extension, finished, furnished, lighted, heated, and ventilated, complete and ready for occupation, being \$395,000)	Submitted				200,000 00		
NOTE.—For explanation of these estimates, see Appendix, marked "B."							
Buildings, Columbia Institution for the Deaf and Dumb— Continuing the work on the erection, furnishing, and fitting up of the buildings of the institution, in accordance with plans heretofore submitted to Congress	Appropriated.	18	386	1	50,000 00	52,000 00	40,000 00
Repairs on buildings already completed	Submitted				2,000 00		
Improving Grounds, Columbia Institution for the Deaf and Dumb— Enclosure, improvement, and care of the grounds of the institution	Submitted				.....	10,000 00	
NOTE.—For explanation of these estimates, see Appendix, marked "C."							
Buildings, Columbia Hospital for Women and Lying-in Asylum— To complete the repair of building, including new roof, viz: Brick work, plastering, slating, plumbing, and gas-fixtures	Appropriated.	17	540	1	.....	12,500 00	
Grounds, Columbia Hospital for Women and Lying-in Asylum— Iron railing around the north and west portion of grounds	Appropriated	18	143	1	.....	3,000 00	25,000 00
NOTE.—This railing is much needed to protect the property and keep out intruders.							
Smithsonian Institution Building— Fitting up apartments for mounting and photographing specimens	Appropriated.	18	387	1	.....	5,000 00	12,500 00
NOTE.—A separate place is absolutely necessary for conducting these operations.							
Repairs of Building, Department of the Interior— Casual repairs of the Department building	Appropriated.	18	363	1	.....	18,000 00	85,000 00
Total Public Works under Department of the Interior						800,500 00	445,740 00
UNDER THE DEPARTMENT OF JUSTICE.							
BUILDINGS AND GROUNDS.							
Court-house, Washington, D. C.— Repairs on the court-house in the City of Washington	Appropriated.	18	374	1	.....	\$3,000 00	\$3,000 00
UNDER THE DEPARTMENT OF AGRICULTURE.							
BUILDINGS AND GROUNDS.							
Improvement of Grounds, Department of Agriculture— Labor	Appropriated	18	394	1	12,000 00		
Manure	do.				300 00		
Repairs to heating apparatus, including one new boiler	do.				825 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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<i>Improvement of Grounds, Department of Agriculture—Continued.</i>							
Repairing concrete walks and laying new concrete from Department building to Fourteenth street west	Appropriated.	18	394	1	\$3,800 00		
Completing terrace walk in front of Department building	do.				2,200 00		
Purchase of new and rare trees for arboretum	do.				800 00		
Tools, carts, mowing machines, and general repairs of the same	do.				1,000 00		
Repairing conservatories	do.				900 00		
						\$21,825 00	\$11,990 00
Total Public Works under Department of Agriculture						21,825 00	11,990 00
Total Public Works						28,591,410 30	14,480,405 08

POSTAL SERVICE

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
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UNDER THE POST OFFICE DEPARTMENT.							
OUT OF THE POSTAL REVENUES.							
Postal Service—							
Office of the Postmaster General:							
Mail depredations and special agents.....	\$160,000 00						
Preparation and publication of post-route maps.....	35,000 00						
Advertising	103,000 00						
Office of the First Assistant Postmaster General:							
Compensation to postmasters.....	7,500,000 00						
Clerks in post offices.....	3,650,000 00						
Payments to letter carriers.....	2,100,000 00						
Wrapping paper.....	20,000 00						
Wrapping twine.....	50,000 00						
Marking and rating stamps.....	10,000 00						
Letter balances and scales.....	7,000 00						
Rent, light, and fuel.....	450,000 00						
Office furniture.....	35,000 00						
Stationery.....	55,000 00						
Miscellaneous and incidental items.....	145,000 00						
Office of the Second Assistant Postmaster General:							
Inland transportation.....	17,548,000 00						
Railway post-office clerks.....	1,309,447 29						
Route agents.....	1,050,000 00						
Mail-route messengers.....	172,800 00						
Local agents.....	109,521 72						
Mail messengers.....	729,186 98						
Mail locks and keys.....	20,000 00						
Mail bags and mail-bag catchers.....	200,000 00						
Office of the Third Assistant Postmaster General:							
Postage stamps.....	147,762 00						
Expenses of agency.....	6,900 00						
Stamped envelopes and newspaper wrappers.....	535,878 00						
Expenses of agency.....	16,300 00						
Postal cards.....	216,760 00						
Expenses of agency.....	6,100 00						
Registered package envelopes, locks, and seals.....	40,000 00						
Office envelopes.....	40,000 00						
Dead-letter envelopes.....	2,150 00						
Ship, steamboat, and way letters.....	7,500 00						
Fees to United States attorneys, marshals, clerks of courts, and counsel necessarily employed by special agents of the Post Office Department, subject to approval by the Attorney General.....	7,500 00						
Engraving, printing, and binding drafts and warrants.....	1,500 00						
Miscellaneous items.....	2,500 00						
Office of superintendent of foreign mails:							
Transportation of foreign mails.....	300,000 00						
Balances due foreign countries.....	50,000 00						
Total estimated expenditures.....	36,839,805 99						
Postal Revenue—							
Estimated amount which will be provided by the Department, being its own revenue accruing from postages and other sources, \$28,658,203 80							
Deficiency in Postal Revenues—							
Leaving a deficiency in the revenues of the Post Office Department, to be provided from the General Treasury, of	Appropriated.	18	343	3	.....	\$8,181,602 19	\$6,852,705 00
Postage, Post Office Department—							
Official postage stamps for use of the Post Office Department	Appropriated.	18	343	3	.....	850,000 00	986,000 00
STEAMSHIP SERVICE.							
Steamship Service—							
Between San Francisco, Japan, and China.....	Feb. 17, 1865	13	430	1	}.....	250,000 00	500,000 00
	Feb. 18, 1867	14	394	2			
Total Postal Service.....						9,281,602 19	8,338,705 00

MISCELLANEOUS.

MISCELLANEOUS.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
UNDER THE CONGRESSIONAL PRINTER.							
PUBLIC PRINTING AND BINDING.							
Public Printing—							
Wages for three hundred and thirteen days, viz:							
One foreman	Appropriated.	R. S.	746	3756, 3828	} \$2,100 00		
		18	371	1			
Five assistant foremen, at \$5 33½ each per day	do.				8,346 67		
Two other assistants, at \$4 66½ each per day	do.				2,921 33		
One electrotyper, at \$5 83½ per day	do.				1,825 83		
One preparer of copy, at \$5 per day	do.				1,565 00		
Eighteen proof-readers, at \$4 66½ each per day	do.				26,292 00		
Two revisers of proof, at \$4 66½ each per day	do.				2,921 33		
One time-keeper, at \$4 33½ per day	do.				1,356 33		
Four makers-up, at \$4 66½ each per day	do.				5,842 67		
Three makers-up, at \$4 16½ each per day	do.				3,912 50		
Three hundred compositors, at \$4 each per day	do.				375,600 00		
Thirty pressmen, at \$4 each per day	do.				37,560 00		
Eighty feeders, at \$1 50 each per day	do.				37,560 00		
Eighty laborers, at \$2 25 each per day	do.				56,340 00		
One engineer, at \$5 per day	do.				1,565 00		
One assistant engineer, at \$4 66½ per day	do.				1,460 67		
Four machinists, at \$4 each per day	do.				5,008 00		
Five carpenters, at \$3 50 each per day	do.				5,477 50		
Eighteen sheet boys, at \$1 16½ each per day	do.				6,573 00		
Two firemen, (365 days,) at \$3 30 each per day	do.				2,409 00		
Four watchmen, (365 days,) at \$3 30 each per day	do.				4,818 00		
One watchman, (365 days,) at \$2 75 per day	do.				1,003 75		
One watchman, at \$2 75 per day	do.				860 75		
One stereotyper, at \$5 16½ per day	do.				1,617 17		
Four stereotypers, at \$4 each per day	do.				5,008 00		
Two hundred folders, at \$30 each per month	do.				72,000 00		
Nineteen apprentices, at \$2 66½ each per day	do.				15,858 67		
Five apprentices, at \$2 each per day	do.				3,130 00		
Two apprentices, at \$1 50 each per day	do.				939 00		
Four apprentices, at \$1 16½ each per day	do.				1,460 67		
Total estimate for wages, public printing... \$693,332 84							
Materials, &c., public printing:							
Improvements and repairs to building	do.				2,500 00		
Machinery, type, and implements	do.				20,000 00		
10,000 pounds book-printing ink, at 40 cents	do.				4,000 00		
4,000 pounds job-printing ink, at \$1	do.				4,000 00		
2,000 pounds Bullock-press ink, at 40 cents	do.				800 00		
500 pounds colored inks, at \$2	do.				1,000 00		
2,500 pounds glue, at 40 cents	do.				1,000 00		
8,500 pounds potash, at 12 cents	do.				1,020 00		
500 gallons syrup, at \$1	do.				500 00		
1,750 pounds glycerine, at 30 cents	do.				525 00		
1,000 gallons benzine, at 20 cents	do.				200 00		
400 gallons oil, at \$2	do.				800 00		
300 tons coal, at \$5	do.				1,500 00		
3,200 yards cotton, at 25 cents	do.				800 00		
558 pounds thread, at \$1 40	do.				781 20		
Freight, cartage, boxing, and wharfage	do.				1,000 00		
Expenses of horses and wagons	do.				2,000 00		
Gas	do.				4,000 00		
Miscellaneous items	do.				7,000 00		
Total estimate for materials, public printing... \$53,426 20							
Paper for the public printing:							
25,600 reams fine printing, uncalendered, 45-pound, at \$6 per ream	do.				153,600 00		
15,000 reams, superfine printing, super-calendered, 53-pound, at \$8 per ream	do.				120,000 00		
2,000 reams superfine printing, super-calendered, 70-pound, at \$10 per ream	do.				20,000 00		
7,000 reams superfine printing, super-calendered, hard-sized, 45-pound, at \$7 per ream	do.				49,000 00		
250 reams superfine printing, super-calendered, hard-sized, 60-pound, at \$8 per ream	do.				2,000 00		
200 reams superfine printing, super-calendered, 44-pound, at \$6 50 per ream	do.				1,300 00		
1,000 reams superfine printing, super-calendered, 50-pound, at \$7 per ream	do.				7,000 00		
3,000 reams superfine printing, super-calendered, 42-pound, at \$6 per ream	do.				18,000 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Public Printing—Continued.</i>							
250 reams cream-tinted printing, super-calendered, 70-pound, at \$12 per ream	Appropriated.	R. S.	746	3756, 3828	} \$3,000 00		
300 reams cream-tinted printing, super-calendered, 55-pound, at \$8 per ream		18	371	1			
500 reams cream-tinted printing, super-calendered, 50-pound, at \$8 per ream							
250 reams cream-tinted printing, super-calendered, 40-pound, at \$6 per ream							
Writing paper :							
3,000 reams quarto-post, 10-pound, at 20 cents per pound, \$2 per ream	do				6,000 00		
3,000 reams flat-cap, 16-pound, at 20 cents per pound, \$3 20 per ream	do				9,600 00		
7,000 reams double-cap, 32-pound, at 20 cents per pound, \$6 40 per ream	do				44,800 00		
3,000 reams demy, 20-pound, at 20 cents per pound, \$4 per ream	do				12,000 00		
3,500 reams double-demy, 40-pound, at 20 cents per pound, \$8 per ream	do				28,000 00		
2,000 reams folio, 23-pound, at 20 cents per pound, \$4 60 per ream	do				9,200 00		
2,000 reams double-folio, 40-pound, at 20 cents per pound, \$8 per ream	do				16,000 00		
1,500 reams medium, 26-pound, at 20 cents per pound, \$5 20 per ream	do				7,800 00		
1,000 reams royal, 36-pound, at 20 cents per pound, \$7 20 per ream	do				7,200 00		
1,000 reams super-royal, 56-pound, at 20 cents per pound, \$11 20 per ream	do				11,200 00		
300 reams imperial, 40-pound, at 20 cents per pound, \$8 per ream	do				2,400 00		
100 reams imperial, 66-pound, at 20 cents per pound, \$13 20 per ream	do				1,320 00		
1,000 reams special, of any required sizes, not exceeding 21 by 40 inches, 35-pound, at 20 cents per pound, \$7 per ream	do				7,000 00		
700 reams superfine cover paper, of any required sizes or colors, 36-pound, at \$7 per ream	do				4,900 00		
4,000 reams blue folio, 16-pound, at 20 cents per pound, \$3 20 per ream	do				12,800 00		
800 reams blue folio, 20-pound, at 20 cents per pound, \$4 per ream	do				3,200 00		
500 reams blue quarto-post, 9-pound, at 20 cents per pound, \$1 80 per ream	do				900 00		
100 reams blue medium, 26-pound, at 20 cents per pound, \$5 20 per ream	do				520 00		
200 reams blue demy, 20-pound, at 20 cents per pound, \$4 per ream	do				800 00		
500 reams blue double-cap, 30-pound, at 20 cents per pound, \$6 per ream	do				3,000 00		
600 reams blue cap, 16-pound, at 20 cents per pound, \$3 20 per ream	do				1,920 00		
400 reams laid cap, assorted colors, at \$4 per ream	do				1,600 00		
400 reams yellow double-cap, 32-pound, at \$7 per ream	do				2,800 00		
600 reams buff double-cap, 32-pound, at \$7 per ream	do				4,200 00		
100 reams gold envelope paper, 28-pound, at \$7 50 per ream	do				750 00		
400 reams manila, various sizes, at \$4 per ream	do				1,600 00		
40,000 sheets imitation parchment, at 3 cents per sheet	do				1,200 00		
25,000 sheets imitation parchment, at 3 cents per sheet	do				750 00		
60,000 sheets bank-note paper, at \$12 50 per M	do				750 00		
Cards:							
20,000 sheets India, at 10 cents per sheet	do				2,000 00		
20,000 sheets Bristol board, at 10 cents per sheet	do				2,000 00		
Paper for post-office blanks, engine-sized:							
1,000 reams, measuring 26 by 32 inches, 46-pound, at \$6 50 per ream	do				6,500 00		
500 reams, measuring 25 by 36 inches, 52-pound, at \$8 per ream	do				4,000 00		
1,000 reams, measuring 20 by 36 inches, 42-pound, at \$6 per ream	do				6,000 00		
400 reams, measuring 19 by 24 inches, 30-pound, at \$4 per ream	do				1,600 00		
Map paper:							
50,000 pounds, at 20 cents per pound	do				10,000 00		
Total estimate paper, public printing.. \$618,110 00							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Public Binding—</i>							
Wages for three hundred and thirteen days, viz:							
One foreman.....	Appropriated.	R. S. 18	746 371	3756, 3828 1	\$2,100 00		
One assistant foreman, at \$5 33½ per day.....	do				1,669 35		
Four assistants, at \$4 33½ each per day.....	do				5,425 34		
Two marblers, at \$4 33½ each per day.....	do				2,712 67		
One hundred and sixty-seven rulers, finishers, and forwarders, at \$4 each per day.....	do				209,084 00		
One apprentice, at \$2 66½ per day.....	do				844 67		
Three apprentices, at \$2 each per day.....	do				1,878 00		
Six apprentices, at \$1 50 each per day.....	do				2,817 00		
Eleven pagers, at \$2 50 each per day.....	do				8,607 50		
Thirteen blank sewers, at \$2 each per day.....	do				8,138 00		
Twenty-two sewers, at \$1 83½ each per day.....	do				12,624 33		
Two hoisters, at \$2 50 each per day.....	do				1,565 00		
Twenty-two feeders, at \$1 33½ each per day.....	do				10,016 00		
Three watchmen, (365 days,) at \$3 30 each per day.....	do				3,613 50		
Four laborers, at \$2 50 each per day.....	do				3,130 00		
Twenty-two laborers, at \$2 25 each per day.....	do				15,493 50		
Two book sawyers, at \$2 75 each per day.....	do				1,721 50		
Eighty sewers, (average \$40 per month).....	do				38,400 00		
Total estimate for wages, public binding...\$329,840 36							
Materials, &c., public binding:							
Machinery and repairs, tools, implements, &c.....	do				3,000 00		
125 skins Russia leather, at \$6 40 per skin.....	do				800 00		
33,334 skins C. H. Russia leather, at 24 cents per foot.....	do				8,000 16		
2,000 dozen law sheep, at \$11 per dozen.....	do				22,000 00		
500 dozen law calf, at \$36 per dozen.....	do				18,000 00		
300 dozen Turkey morocco, at \$40 per dozen.....	do				12,000 00		
50 dozen cochineal title leather, at \$20 per dozen.....	do				1,000 00		
200 dozen roans, at \$10 per dozen.....	do				2,000 00		
300 dozen skivers, at \$12 per dozen.....	do				3,600 00		
80 dozen parchment, at \$10 per dozen.....	do				800 00		
3,000 yards cotton cloth, at 25 cents per yard.....	do				750 00		
2,000 pieces book muslin, at \$7 75 per piece.....	do				15,500 00		
250 pieces book muslin, at \$11 per piece.....	do				2,750 00		
500 pieces head band, at \$1 50 per piece.....	do				750 00		
800 packs gold leaf, at \$9 per pack.....	do				7,200 00		
700 packs Florence leaf, at \$3 per pack.....	do				2,100 00		
311,950 pounds binders' board, at 4½ cents per pound.....	do				14,037 75		
100,000 pounds binders' board, at 5½ cents per pound.....	do				5,250 00		
20,000 pounds binders' board, at 7 cents per pound.....	do				1,400 00		
9,000 pounds glue, at 23 cents per pound.....	do				2,070 00		
3,000 pounds glue, at 30 cents per pound.....	do				900 00		
2,000 pounds twine, at 40 cents per pound.....	do				800 00		
2,800 pounds thread, at \$1 15 per pound.....	do				3,220 00		
70 barrels flour, at \$7 per barrel.....	do				490 00		
100 gallons alcohol, at \$2 65 per gallon.....	do				265 00		
200 gallons sperm oil, at \$2 per gallon.....	do				400 00		
200 tons coal, at \$5 per ton.....	do				1,000 00		
150 reams marble paper, at \$7 50 per ream.....	do				1,125 00		
50 reams comb paper, at \$18 per ream.....	do				900 00		
40 reams plaid paper, at \$16 per ream.....	do				640 00		
450 reams double-cap ledger paper, at \$11 70 per ream.....	do				5,265 00		
175 reams imperial ledger paper, at \$26 10 per ream.....	do				4,567 50		
250 reams super-royal ledger paper, at \$19 80 per ream.....	do				4,950 00		
250 reams royal ledger paper, at \$15 30 per ream.....	do				3,825 00		
1,100 reams medium ledger paper, at \$11 70 per ream.....	do				12,871 00		
2,000 reams demy ledger paper, at \$8 55 per ream.....	do				17,100 00		
2,300 reams cap ledger paper, at \$5 40 per ream.....	do				12,420 00		
200 reams manila paper, at \$7 50 per ream.....	do				1,500 00		
100 reams manila paper, at \$15 50 per ream.....	do				1,550 00		
75 reams hardware paper, at \$6 50 per ream.....	do				487 50		
Gums, dyes, &c.....	do				3,000 00		
Gas.....	do				2,500 00		
Freight, boxing, and cartage.....	do				3,000 00		
Expenses of horses, wagons, &c.....	do				2,000 00		
Miscellaneous items.....	do				5,000 00		
Total estimate for materials, public binding...\$212,783 91							
Congressional Record:							
Wages of employes in printing department.....	Appropriated.	R. S. 18	746 371	3756, 3828 1	37,000 00		
Gas.....	do				700 00		
Printing material.....	do				250 00		

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Public Binding—Continued.</i>							
4,450 reams uncalendered printing paper, 45-pound, at \$6 per ream.....	-----	R. S.	746	3756, 3828	} \$26,700 00		
Appropriated.....	-----	18	371	1			
1,400 pounds printing ink, at 60 cents per pound.....	do.....				840 00		
One stereotyper, (313 days,) at \$4 16½ per day.....	do.....				1,304 17		
Stereotype metal.....	do.....				1,250 00		
Compiling index.....	do.....				1,600 00		
Wages of employes, binding department.....	do.....				11,000 00		
38,990 feet C. H. Russia leather, at 24 cents per foot.....	do.....				9,357 60		
60 packs gold leaf, at \$7 75 per pack.....	do.....				465 00		
32,500 pounds binders' board, at 4½ cents per pound.....	do.....				1,462 50		
251 pounds glue, at 23 cents per pound.....	do.....				57 73		
5 barrels flour, at \$7 per barrel.....	do.....				35 00		
45 pounds albumen, at \$1 50 per pound.....	do.....				67 50		
275 pounds thread, at \$1 15 per pound.....	do.....				316 25		
200 pounds twine, at 42 cents per pound.....	do.....				84 00		
3 dozen bottles sweet oil, at \$3 25 per dozen.....	do.....				9 75		
40 reams marble paper, at \$7 50 per ream.....	do.....				303 75		
Total estimate for Congressional Record...\$92,803 25	-----					\$2,000,296 56	\$1,635,507 66
<i>Lithographing, Engraving, &c.—</i>							
Lithographing, mapping, and engraving for both Houses of Congress, the Supreme Court, and the Court of Claims.....	-----	R. S.	749	3779, 3782	} -----	40,000 00	30,000 00
Appropriated.....	-----	18	371	1			
PUBLIC PRINTING AND BINDING.							
The following are the estimates for public printing, binding, and paper for the same, as furnished by the several Executive Departments, under the provisions of section 2, act of May 8, 1872, (R. S., page 725, section 3661:)							
STATE DEPARTMENT.							
<i>Printing and Binding—</i>							
Printing and binding, to be executed under the direction of the Public Printer.....							\$25,000
TREASURY DEPARTMENT.							
<i>Printing and Binding—</i>							
Printing and paper for the same, blank books, binding, ruling, and all other work for the Treasury Department, heretofore estimated for by the Public Printer.....							325,000
WAR DEPARTMENT.							
<i>Printing and Binding—</i>							
Printing and binding for the War Department and its bureaus, to be executed under the direction of the Public Printer, as follows:							
Secretary of War.....	\$7,500						
Adjutant General.....	25,000						
Quartermaster General.....	18,000						
Commissary General.....	6,750						
Paymaster General.....	4,000						
Surgeon General.....	12,500						
Chief of Engineers.....	25,000						
Chief of Ordnance.....	16,000						
Chief Signal Officer.....	50,000						
Bureau of Military Justice.....	100						
	164,850						
NAVY DEPARTMENT.							
<i>Printing and Binding—</i>							
Printing and binding for the Navy Department, to be executed under the direction of the Public Printer.....							65,000
INTERIOR DEPARTMENT.							
<i>Printing and Binding—</i>							
Printing and binding for the Interior Department and its bureaus, to be executed under the direction of the Public Printer, as follows:							
Secretary of Interior.....	\$30,000						
Commissioner of Patents.....	100,000						
Commissioner of Pensions.....	40,000						
Commissioner of Indian Affairs.....	15,000						
Commissioner of Lands.....	30,000						

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
Printing and Binding, Interior Department—Continued.							
Commissioner of Education							
Smithsonian Institution							
Insane Asylum							
Columbia Hospital							
Deaf and Dumb Asylum							
Architect United States Capitol							
							\$241, 370
DEPARTMENT OF JUSTICE.							
Printing and Binding—							
Printing and binding for the Department of Justice, to be executed under the direction of the Public Printer							10, 000
DEPARTMENT OF AGRICULTURE.							
Printing and Binding—							
Printing and binding for the Department of Agriculture, to be executed under the direction of the Public Printer							25, 000
							856, 220
RECAPITULATION.							
State Department							\$25, 000
Treasury Department							325, 000
War Department							164, 850
Navy Department							65, 000
Interior Department							241, 370
Department of Justice							10, 000
Department of Agriculture							25, 000
Total							856, 220
Total for Public Printing, Paper, Binding, and Lithographing						\$2, 040, 296 56	\$1, 665, 507 66
UNDER THE COURT OF CLAIMS.							
Payment of Judgments, Court of Claims—							
Payment of judgments which may be rendered by the court	Mar. 3, 1875	R. S. 18	200 369	1089 1	}	\$2, 000, 000 00	\$400, 000 00
UNDER THE TREASURY DEPARTMENT.							
ENGRAVING AND PRINTING.							
Labor and Expenses of Engraving and Printing—							
Labor, (by the day, piece, or contract,) including labor of workmen skilled in engraving, transferring, plate-printing, and other specialties necessary for carrying on the work of engraving and printing notes, bonds, and other securities of the United States, the pay for such labor to be fixed by the Secretary of the Treasury at rates not exceeding the rates usually paid for such work; and for other expenses of engraving and printing notes, bonds, and other securities of the United States		R. S. 18	710 372	3575, 3578 1	}	\$1, 268, 250 00	\$1, 125, 000 00
Paper for Notes, Bonds, and other Securities—							
Paper for notes, bonds, and other securities of the United States, including mill expenses, boxing, and transportation		R. S. 18	710 372	3575, 3578 1	}	286, 625 00	250, 000 00
Materials for Work of Engraving and Printing—							
Materials, other than paper, required in the work of engraving and printing		R. S. 18	710 372	3575, 3578 1	}	310, 000 00	200, 000 00
Engravers' Tools, Machinery, &c.—							
Purchase of engravers' tools, dies, rolls, and plates, and for machinery and repairs of the same		R. S. 18	710 372	3575, 3578 1	}	70, 000 00	50, 000 00
Maceration of Notes, Bonds, and other Securities—							
Expenses of operating macerating machines for the destruction of United States notes, fractional currency, bonds, national-bank notes, and other obligations of the United States authorized to be destroyed		R. S. 18	710 372	3575, 3578 1	}	10, 000 00	3, 000 00
Total Engraving and Printing						1, 944, 875 00	1, 628, 000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
LIGHT-HOUSE ESTABLISHMENT.							
<i>Salaries of Keepers of Light-houses—</i> Salaries of nine hundred and ninety-one light-house and light-beacon keepers and their assistants.....	Appropriated.	R. S. 18	915 378	4673 1	}	\$594,600 00	\$585,000 00
<i>Expenses of Light-vessels—</i> Seamen's wages, rations, repairs, salaries, supplies, and incidental expenses of twenty-three light-ships and seven relief light-vessels	Appropriated.	18	379	1	.....	240,000 00	230,000 00
<i>Expenses of Buoyage—</i> Expenses of raising, cleaning, painting, repairing, removing, and supplying losses of buoys, spindles, and day-beacons, and for chains, sinkers, and similar necessities	Appropriated.	18	379	1	.....	350,000 00	325,000 00
<i>Expenses of Fog-signals—</i> Repairs and incidental expenses in renewing, refitting, and improving fog-signals and buildings connected therewith.....	Appropriated.	18	379	1	.....	50,000 00	50,000 00
<i>Inspecting Lights—</i> Expenses of visiting and inspecting lights and other aids to navigation, including rewards paid for information as to collisions	Appropriated.	18	379	1	.....	5,000 00	4,000 00
<i>Supplies of Light-houses—</i> Supplying the light-houses and beacon-lights on the Atlantic, Gulf, Lake, and Pacific coasts with oil, wicks, glass chimneys, chamois skins, spirits of wine, whiting, polishing-powder, towels, brushes, soap, paint, and other cleansing materials, and for expenses of gauging, testing, transportation, delivery of oil, fuel, and other supplies for light-houses and fog-signals; for books for light-stations, and other incidental and necessary expenses	Appropriated.	18	379	1	.....	400,000 00	380,000 00
<i>Repairs, &c., of Light-houses—</i> Repairs and incidental expenses of refitting and improving light-houses and buildings connected therewith, and for expenses of repairing and keeping in repair illuminating apparatus and machinery.....	Appropriated.	18	379	1	.....	350,000 00	325,000 00
<i>Lighting and Buoyage of the Mississippi, Missouri, and Ohio Rivers—</i> Maintenance of lights on the Mississippi, Ohio, and Missouri rivers, and such buoys as may be necessary.....	Appropriated.	18	381	1	.....	150,000 00	100,000 00
Total Light-house Establishment						2,139,600 00	1,999,000 00
COAST SURVEY.							
<i>Survey of the Atlantic and Gulf Coasts—</i> For every purpose and object necessary for and incident to the continuation of the survey of the Atlantic and Gulf coasts of the United States, with soundings and observations of deep-sea temperatures in the Gulf stream and the Gulf of Mexico, and observations of currents along the same coasts, and the preparation, engraving, lithographing, and issuing of charts; the preparation and publication of the Coast Pilot and other results of the Coast Survey; the purchase of materials therefor; and including compensation of civilians engaged in the work, and pay and subsistence of engineers for the steamers engaged on these coasts ...	Appropriated.	R. S. 18	917 377	4681, 4691 1	}	\$380,000 00	\$360,000 00
<i>Survey of the Western Coast—</i> For every purpose and object necessary for and incident to the continuation of the survey of the Pacific coasts of the United States, with soundings and observations of deep-sea temperatures in the branch of the Japan stream off, and observations of other currents along the same coasts, and the preparation, engraving, lithographing, and issuing of charts; the preparation and publication of the Coast Pilot and other results of the Coast Survey, with the purchase of materials therefor; including compensation of civilians engaged in the work, and pay and subsistence of engineers for the steamers engaged on those coasts	Sept. 30, 1850 Appropriated	R. S. 9 18	540 377	4681, 4691 1	}	245,000 00	231,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
Geodetic Surveying, Coast Survey— For every purpose and object necessary for and incident to the continuation of the triangulation of the Coast Survey to form a connection between the Atlantic and Pacific coasts of the United States, including compensation of civilians engaged in the work	Mar. 3, 1871 Appropriated.	16 18	508 378	1 1	}	\$90,000 00	\$50,000 00
Repairs of Vessels, Coast Survey— Repairs and maintenance of the complement of vessels used in the Coast Survey	Aug. 18, 1856 Appropriated.	11 18	81 378	1 1	}	50,000 00	41,000 00
Publishing Observations, Coast Survey— Continuing the publication of observations and their discussion, made in the progress of the Coast Survey, including compensation of civilians engaged in the work; the publication to be made at the Government Printing Office	Mar. 3, 1869 Appropriated.	15 18	302 378	1 1	}	8,000 00	8,000 00
General Expenses, Coast Survey— General expenses of the Coast Survey in reference to the Atlantic, Gulf, and Pacific coasts of the United States, namely: Rent of building, No. 211 New Jersey avenue south, for offices, workrooms, and workshops	Appropriated.	18	378	1	\$13,600 00		
Rent of office in San Francisco, California	do.				2,000 00		
Rent of fire-proof building, No. 205 New Jersey avenue south, for the safe-keeping and preservation of the original astronomical, magnetic, hydrographic, and other records; the original topographical and hydrographic maps and charts; the engraved plates, instruments, and other valuable articles of the Coast Survey	do.				5,000 00		
Fuel for all the offices and buildings	do.				2,000 00		
The transportation of instruments, maps, and charts; the purchase of new instruments, books, maps, and charts; and for gas and other miscellaneous expenses	do.				12,000 00		
						34,600 00	27,000 00
Vessels for the Coast Survey— The construction, equipment, and outfits of two schooners for work on the Atlantic and Gulf coasts, each at \$18,000	Appropriated.	18	378	1	36,000 00		
The construction, equipment, and outfit of one steamer for the work on the Pacific coast	do.				70,000 00		
The construction, equipment, and outfits of two schooners for the work on the Pacific coast, each at \$24,000	do.				48,000 00		
						154,000 00	145,000 00
Total Coast Survey						961,600 00	862,000 00
NOTE.—For explanation of these estimates, see Appendix, marked "H."							
MISCELLANEOUS OBJECTS.							
Expenses of National Currency— Paper, engraving, printing, express charges, and other expenses	Appropriated.	R. S. 18	1006 372	5172,3 1	}	\$300,000 00	\$200,000 00
Transportation of United States Securities— Transportation of notes, bonds, and other securities of the United States	Appropriated.	18	372	1	.....	100,000 00	50,000 00
Inquiries respecting Food-fishes— Continuing the inquiry into the causes of the decrease of food-fishes of the coast, of the rivers, and of the lakes of the United States	Appropriated.	R. S. 18	856 374	4396 1	}	5,000 00	5,000 00
Propagation of Food-fishes— Introduction of shad into the waters of the Pacific States, the Gulf States, and of the Mississippi valley, and of salmon, white-fish, and other useful food-fishes into the waters of the United States to which they are best adapted	Appropriated.	R. S. 18	856 374	4398 1	}	47,500 00	47,500 00
Illustrations for Report on Food-fishes— Preparation of illustrations for the Report of the United States Commissioner of Fish and Fisheries	Appropriated.	18	375	1	.....	1,000 00	1,000 00
Metric Standard of Weights and Measures— Construction and verification of standard weights and measures for the custom-houses of the United States and for the several States, and of metric standards for the same	Appropriated.	R. S. 18	708 378	3569, 3570 1	}	8,000 00	
Rent of workshops in building No. 215 South Capitol street.	do.					400 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Metric Standard of Weights and Measures—Continued.</i>							
Rent of fire-proof rooms in building, No. 205 New Jersey avenue south, for the safe-keeping and preservation of finished weights, measures, balances, and metric standards	.....	R. S.	708	3569, 3570	} \$1,000 00		
Appropriated.	18	378	1				
Fuel and lights	do				300 00		
Travelling expenses, transportation, and miscellaneous expenses	do				900 00		
To meet international treaty obligations resulting from action conducted through the State Department, in pursuance whereof a convention was signed May 20, 1875, by the American Minister, for establishing at Paris a permanent "International Bureau of Weights and Measures," in which are to be precisely adjusted such standards as may be at any future time sent by the nations represented in convention	Submitted				9,000 00	\$19,600 00	\$7,600 00
<i>Fuel, Light, and Water for Public Buildings—</i>							
Fuel, light, water, and miscellaneous items, required by the janitors and firemen in the proper care of the buildings, furniture, and heating apparatus, such as brooms, mops, brushes, buckets, wheelbarrows, shovels, saws, hatchets, hammers, &c., for all public buildings under control of the Treasury Department	Appropriated.	18	395	1		400,000 00	300,000 00
<i>Furniture and Repairs of Furniture for Public Buildings—</i>							
Furniture and repairs of furniture, carpets, &c., for all public buildings under control of the Treasury Department	Appropriated.	18	395	1		200,000 00	150,000 00
<i>Heating Apparatus for Public Buildings—</i>							
Heating, ventilating, and hoisting apparatus, and repairs of same, for all public buildings under control of the Treasury Department	Appropriated.	18	395	1		200,000 00	200,000 00
<i>Pay of Custodians and Janitors—</i>							
Pay of custodians and janitors for all public buildings under control of the Treasury Department	Appropriated.	18	396	1		125,000 00	100,000 00
<i>Vaults, Safes, and Locks for Public Buildings—</i>							
Vaults, safes, and locks, and repair of same, for all public buildings under control of the Treasury Department	Appropriated.	18	396	1		100,000 00	75,000 00
<i>Plans for Public Buildings—</i>							
Photographing, engraving, and printing plans for all public buildings under control of the Treasury Department	Appropriated.	18	396	1		10,000 00	5,000 00
Total Miscellaneous Objects						1,508,100 00	1,141,100 00
Total Miscellaneous under Treasury Department						6,554,175 00	5,630,100 00
UNDER THE WAR DEPARTMENT.							
SIGNAL OFFICE.							
<i>Observation and Report of Storms—</i>							
Expenses of the observation and report of storms by telegraph and signal for the benefit of commerce and agriculture throughout the United States; for manufacture, purchase, or repair of meteorological and other necessary instruments for telegraphing reports; for expenses of storm-signals, announcing probable approach and force of storms; for continuing the establishment and connection of stations at life-saving stations and light-houses; for instrument shelters; for hire, furniture, and expenses of offices maintained for public use in cities or ports receiving reports; for river reports; for maps and bulletins to be displayed in chamber of commerce and board-of-trade rooms and for distribution; for books, periodicals, newspapers, and stationery; and for incidental expenses not otherwise provided for	.....	R. S.	35	221, 223	} \$415,092 64		
Appropriated.	18	388	1			\$415,092 64	\$415,000 00
<i>Construction, Maintenance, and Repair of Military Telegraph Lines—</i>							
For the construction and continuing the construction, maintenance, and use of military telegraph lines on Indian and Mexican frontiers, and for the connection of military posts and stations, for the better protection of immigration and the frontier settlements from depredations, especially in the State of Texas, the Territories of New Mexico and Arizona, and the Indian Territory, under the provisions of the act approved March 3, 1875	Appropriated.	18	51	1	} 45,000 00		
	Appropriated.	1	388	1			88,000 00
Total Signal Office						460,092 64	503,000 00

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
MISCELLANEOUS OBJECTS.							
<i>Surveys for Military Defences—</i> Military surveys and reconnaissances by the engineer officers attached to the various headquarters of military divisions and departments, and for the construction and publication of maps for use of the War Department and the Army	Appropriated.	18	314	1	.....	\$50,000 00	\$30,000 00
<i>Geographical Surveys of Territories of the United States west of the one-hundredth meridian—</i> Geographical surveys of the territory of the United States west of the one-hundredth meridian, being for field and office-work	Appropriated.	18	389	1	\$95,000 00	120,000 00	60,000 00
Preparing, engraving, and printing plates and atlas sheets	do.				25,000 00		
<i>Collection and Payment of Bounty, Prize-money, and other Claims of Colored Soldiers and Sailors—</i> For salaries of agents and clerks; rent of office, fuel, lights, stationery, and similar necessities; office furniture and repairs; transportation of officers and agents, telegraphing and postage	Appropriated.	18	390	1	.....	75,000 00	75,000 00
NOTE.—The experience of the past year has shown that the above estimate will be actually the least that will be required.							
<i>Expenses of Military Convicts—</i> Payment of costs and charges of State penitentiaries for the care, clothing, maintenance, and medical attendance of United States military convicts confined in them	Appropriated.	18	390	1	.....	40,000 00	40,000 00
<i>Publication of Official Records of the War of the Rebellion—</i> Publication of the official records of the rebellion, both of the Union and Confederate armies	Appropriated.	18	390	1	.....	50,000 00	50,000 00
<i>Refunding to States Expenses incurred in raising Volunteers—</i> To indemnify the States for expenses incurred by them in enrolling, equipping, and transporting troops for the defence of the United States during the late insurrection	July 27, 1861 Appropriated.	12 18	276 390	1 1	}	250,000 00	250,000 00
NOTE.—For explanation of this estimate, see Appendix, marked "I."							
<i>Support of the Leavenworth Military Prison, Fort Leavenworth, Kan.—</i> Subsistence for four hundred and fifty (450) prisoners: 450 men for 365 days, one ration each per diem, 164,250 rations, at 18 cents per ration		R. S.	241	1344	} 29,565 00		
	May 21, 1874	18	48	1			
	June 23, 1874	18	222	1			
	Mar. 3, 1875	18	390	1			
	Submitted						
Fuel and straw: 843½ cords of wood, at \$6 per cord	do.					5,062 50	
32½ tons of straw, at \$8 per ton	do.					259 20	
Illuminating the prison buildings: 1,800 gallons of lard oil, at \$1 per gallon	do.					1,800 00	
27 gross wicking, at 30 cents per gross, and 7 pounds wick- ing, at 35 cents per pound	do.					83 45	
Clothing of military prisoners: 450 straw hats, at 25 cents each	do.					112 50	
450 Government forage caps, at 44 cents each	do.					198 00	
200 flannel sack coats, at \$1 77 each	do.					354 00	
450 great coats, at \$5 33 each	do.					2,398 50	
900 cavalry jackets, at \$4 11 each	do.					3,699 00	
1,800 pairs of trowsers, at \$2 10 each	do.					3,780 00	
1,800 flannel shirts, at \$1 each	do.					1,800 00	
1,800 pairs of drawers, at 67 cents each	do.					1,206 00	
2,700 pairs of stockings, at 38 cents per pair	do.					1,026 00	
1,800 pairs of shoes, (pegged,) at \$1 per pair	do.					1,800 00	
450 woollen blankets, at \$3 11 each	do.					1,399 50	
450 bedsacks, at \$1 56 each	do.					702 00	
One suit of clothing and five dollars in money for each prisoner, on discharge: Five dollars for each prisoner on discharge from the prison, (estimate, 200 discharges)	do.					1,000 00	
200 suits of clothing, 7½ yards each, 1,450 yards, at 65 cents per yard	do.					942 50	
Trimmings for 200 suits, (to be made up by prison labor) ..	do.					300 00	
200 hats, at \$1 each	do.					200 00	
Tools and material: Tools and material for wheelwright, carpenter, tailor, and shoe-shops	do.					4,000 00	
NOTE.—For explanation of this estimate, see Appendix marked "J."						61,688 15	

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
Support of National Home for Disabled Volunteer Soldiers—							
Current expenses, including repairs :							
Central branch	Mar. 3, 1875	18	359	1	\$476,877 71		
Eastern branch.....	do.				137,634 47		
Northwestern branch	do.				139,070 88		
Southern branch.....	do.				115,150 38		
Out-door relief and incidental expenses	do.				30,000 00		
						\$898,733 44	
NOTE.—For details and explanation of this estimate, see Appendix marked "K."							
International Exhibition of 1876, War Department—							
To enable the War Department to participate in the International Exhibition of 1876, the money to be disbursed, under existing regulations, by the representative of the War Department in the board on behalf of United States Executive Departments at the International Exhibition of 1876	Mar. 3, 1875	18	400	5		89,000 00	\$133,000 00
NOTE.—Of the \$133,000 appropriated, nearly, or quite, \$22,000 will be used in the construction of the building for all the Executive Departments, as authorized by the act of March 3, 1875, (18 Stats., page 400, sec. 5,) leaving but \$111,000 for the collection, preparation, and display of the War Department exhibit. See Appendix, marked "L."							
Total Miscellaneous Objects						1,634,421 59	638,000 00
Total Miscellaneous under War Department.....						2,094,514 23	1,141,000 00
UNDER THE NAVY DEPARTMENT.							
BUREAU OF NAVIGATION.							
Engraving Charts, Bureau of Navigation—							
Engraving charts, the results of Pacific surveys.....	Submitted					\$20,000 00	
MISCELLANEOUS.							
Transit of Venus—							
Reduction of the observations of the transit of Venus....	Submitted					7,000 00	
Total Miscellaneous under the Navy Department.....						27,000 00	
UNDER THE DEPARTMENT OF THE INTERIOR.							
SURVEYING THE PUBLIC LANDS.							
In Louisiana—							
At rates not exceeding \$12 per linear mile for township { and \$10 for section lines, including \$3,000 for the salary } and expenses of a surveyor to locate private land claims {	Appropriated.	R. S. 18	441 383	2395, 2413 1	}	\$20,000 00	\$15,000 00
NOTE.—\$20,000 is estimated for the survey of public lands in the southwestern, southeastern, and northwestern districts, including resurveys in the southwestern district, where, from lapse of time since the original surveys were made, the evidences of survey are frequently obliterated through entire townships and the disposition of lands prevented by the inability of settlers to describe the lands which they desire to enter. The estimate also includes the compensation of \$1,800 per annum and expenses of surveyor to locate and survey confirmed private land claims and to examine and correct old erroneous locations, to complete detached and unfinished surveys, and to prepare the necessary office-work and search for information requisite to properly locate the claims, and to work on the exhibit of private land claims.							
In Florida—							
At rates not exceeding \$12 per linear mile for standard, { \$12 for township, and \$10 for section lines..... }	Appropriated.	R. S. 18	441 383	2395, 2413 1	}	15,000 00	10,000 00
NOTE.—\$15,000 is estimated for the extension of subdivisional surveys over the lands lying between the Watson and Orr and Whitner boundary lines, of Georgia and Florida, in order to adjudicate titles to lands derived from the State of Georgia, under act of Congress, approved April 9, 1872, (Stats., vol. 17, page 52,) and to ascertain the unoccupied Government lands, and make the same available for entry. Also, to survey and subdivide ranges 28 to 34 east, southward; the extreme southern portion of the main land and the islands on the Gulf coast from township 59 southward, some of which are of rich land and now occupied by squatters.							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>In Minnesota—</i>							
At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines.....	-----	R. S.	441	2395, 2413	} -----	\$40,000 00	\$30,000 00
NOTE.—\$40,000 is estimated for the extension of the third and fifth guide meridians from the thirteenth standard parallel to the international boundary; the fourteenth and fifteenth standards between the fifth and sixth guides; the eighth correction line from township 61 north, between ranges 3 and 4, to township 61, between ranges 11 and 12; the ninth correction line from township 65, between ranges 3 and 4, to the third guide; also for the survey of township exteriors and subdivision lines.	Appropriated.	18	383	1			
<i>In Dakota—</i>							
At rates not exceeding \$12 per linear mile for standard, \$9 for township, and \$8 for section lines.....	-----	R. S.	441	2395, 2413	} -----	70,000 00	50,000 00
NOTE.—\$70,000 is estimated for the extension of various standard parallels and guide meridians in the northern and southern portions of this district, and to survey township exteriors within the parallelograms formed by the standard lines, in order to ascertain the exact character of the country, and to admit of future subdivisional surveys, to accommodate the advancing settlements. During the year it is intended to make subdivisional surveys in the immediate vicinity of the Dakota River valley, now attracting settlers; also, to subdivide quite a number of townships within the Northern Pacific Railroad grant, between Fargo and Bismarck. Subdivisional surveys are also needed west of Red river, where settlements are already made in advance of the public surveys, and along the Goose River valley.	Appropriated.	18	383	1			
<i>In Montana—</i>							
At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines; and for heavily-timbered mountain lands, at augmented rates, not exceeding \$18 for standard, \$16 for township, and \$14 for section lines.....	-----	R. S.	441	2395, 2413	} -----	50,000 00	40,000 00
NOTE.—\$50,000 is estimated for the extension of the public surveys over the Judith Basin, containing a large extent of fine agricultural land, well supplied with water and timber, and already attracting many settlers; the settled portion of the valley of the Yellowstone, between Shields river and Sweet Grass creek, for the survey of which petitions have been filed; the settled portions of the Missouri River valley contiguous to Fort Benton; the Red Rock valley, settled throughout its entire length on the main route, between Utah and Montana, the proposed route of the Utah Northern railroad; and over some isolated, unsurveyed townships in which settlements have been made.	Appropriated.	18	383	1			
<i>In Nebraska—</i>							
At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines.....	-----	R. S.	441	2395, 2413	} -----	75,000 00	75,000 00
NOTE.—\$75,000 is estimated for the extension of the surveys in this district, between the fifth and sixth standard parallels, north from the fourth guide meridian, west to the western boundary of the State, and between the fourth and fifth guide meridians west, northward to the divide between the waters flowing into the Platte and those flowing into the Niobrara, said divide forming the present southern boundary of the Sioux Indian lands. These surveys will embrace a large area of grazing lands in the vicinity of the Platte and Loup rivers, with some lands suitable for agricultural pursuits.	Appropriated.	18	383	1			
<i>In Colorado—</i>							
At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines, and for heavily-timbered lands at augmented rates, not exceeding \$18 per linear mile for standard, \$16 for township, and \$14 for section lines.....	-----	R. S.	441	2395, 2413	} -----	60,000 00	60,000 00
NOTE.—\$60,000 is estimated for the survey of valuable agricultural and mineral lands acquired by the recent agreement with the Ute Indians and lands in various parts of the district available principally for agricultural purposes, but partly for minerals and timber, embracing lands upon which settlements have already been made, or are likely to be demanded for early occupation. The rapidly increasing settlements in Colorado, induced by its superior advantages of soil and climate and abundant mineral resources, require extensive surveys.	Appropriated.	18	383	1			
<i>In Idaho—</i>							
At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines, and for heavily-timbered lands at augmented rates, not exceeding \$18 per linear mile for standard, \$16 for township, and \$14 for section lines.....	-----	R. S.	441	2395, 2413	} -----	40,000 00	30,000 00
NOTE.—\$40,000 is estimated for the extension of the base line to the eastern boundary of the Territory, in order to admit of the extension of township and subdivisional lines over the fine agricultural lands on the Upper Snake river, in Eastern Alturas and Oneida counties, and to extend the first standard parallel north, or a guide meridian to the mineral and timber lands in Alturas county; also, to subdivide a considerable extent of country in Owyhee county, south of the first standard parallel south, embracing lands valuable for agriculture, and in some portions containing rich silver mines; subdivisional surveys are also needed on the Malad river, north of the first standard south.	Appropriated.	18	383	1			

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.[illegible]

General object, (title of appropriation,) and details and explanations.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated amt't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>In Wyoming—</i> At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines, and for heavily-timbered lands at augmented rates, not exceeding \$18 per linear mile for standard, \$16 for township, and \$14 for section lines.....		R. S.	441	2395,	}	\$50,000 00	\$30,000 00
	Appropriated.	18	384	2413 1			
NOTE.—\$50,000 is estimated for extending standard parallels and guide meridians to cover the limits of the land grant to the Union Pacific Railroad Company and for surveying township and subdivisional lines of agricultural, grazing, coal, iron, and timber lands within and adjoining the same.							
<i>In Arizona—</i> At rates not exceeding \$15 per linear mile for standard, \$12 for township, and \$10 for section lines.....		R. S.	441	2395,	}	40,000 00	20,000 00
	Appropriated.	18	383	2413 1			
NOTE.—\$40,000 is estimated for surveys in the valleys of the Little Colorado, Verde, Big Sandy, Hossayampa, below Wickenburg, Gila, Upper Santa Cruz, Upper San Pedro, and Sonoita; also for the survey of lands surrounding and adjoining the Pima and Maricopa Indian reservation, some of which have been settled upon for fifteen years; and of lands in the vicinity of the Huachuca Mountains, covering and near to Santa Rita, Pinal, and Ostrich mining districts. Settlements have been made in all these localities. Also for the extension of the lines of public surveys to the extensive mineral localities in several sections of the Territory for the convenience of miners in describing their claims in accordance with legal subdivisions of the public lands.							
<i>Examinations of Public Surveys—</i> Occasional examinations of public surveys in the several surveying districts, in order to test the accuracy of the work in the field.....		R. S.	392	2223	}	10,000 00	10,000 00
	Appropriated.	18	384	1			
NOTE.—\$10,000 is estimated to cover expenses of examiners, to be designated by the Commissioner of the General Land Office or surveyors general, to test the fidelity of the execution of the field-work; also to enable the surveyors general to satisfy themselves of the correctness of the returns made of the field-work where doubts exist as to the faithful execution of the work before approval of the same.							
<i>Surveying Confirmed Private Land Claims in California—</i> Surveying confirmed private land claims in California at the rates prescribed by law, including office expenses incident to the service		R. S.	392	2223	}	30,000 00	20,000 00
	Appropriated.	18	384	1			
<i>Surveying Confirmed Private Land Claims in New Mexico—</i> Surveying confirmed private land claims in New Mexico, at a rate not exceeding \$15 per linear mile.....		R. S.	392	2223	}	20,000 00	10,000 00
	Appropriated	18	384	1			
<i>Surveying Confirmed Private Land Claims in Colorado—</i> Surveying confirmed private land claims in Colorado, at a rate not exceeding \$15 per linear mile		R. S.	392	2223	}	5,000 00	10,000 00
	Appropriated	18	384	1			
<i>Surveying Confirmed Private Land Claims in Arizona—</i> Surveying confirmed private land claims in Arizona, at a rate not exceeding \$15 per linear mile	Submitted					10,000 00	
NOTE.—These four sums are estimated for the reason that the act of Congress entitled "An act for the survey of grants or claims of land," approved June 2, 1862, (U. S. Statutes at Large, vol. 12, page 410,) which required such surveys to be made at the cost of claimants, was repealed, Feb. 18, 1871, (U. S. Statutes at Large, vol. 16, page 416, and vol. 18, page 384.) Under the circumstances, no contracts for the survey of private land claims can be entered into by the respective surveyors general unless Congress provides the necessary funds for the service. The segregation of the private land claims from the mass of public lands is called for to secure the best interests of the Government, as well as the welfare of settlers located often on public lands, but claimed by grantees as confirmed private claims.							
<i>Survey of Boundary between Colorado and Utah—</i> Survey of the boundary line between Colorado and Utah, being so much of the 32d meridian of longitude west from Washington Observatory as lies between the 37th and 41st degrees of north latitude, at a rate not exceeding \$70 per linear mile; estimated distance 280 miles	Submitted					19,600 00	
NOTE.—The estimate of \$19,600 is necessary to separate the political jurisdictions, so that the respective inhabitants may know to which particular Territory their rights of citizenship belong. The boundary is needed to close the lines of public surveys upon, projected from different bases and meridians; also to enable the local land officers to know that public lands disposed of by them are within their respective districts, and to afford facilities to settlers on surveyed and unsurveyed public lands to apply to the proper land officers to file declarations to enter lands.							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for each detailed object of expenditure.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the fiscal year ending June 30, 1876.
		Vol. or R. S.	Page.	Sec.			
<i>Retracing of Boundary between Arkansas and Indian Territory—</i> Retracing and conspicuously marking the boundary line between the State of Arkansas and the Indian territory, at a rate not exceeding \$40 per linear mile; estimated distance 198 miles	Mar. 3, 1875 Submitted	18	476	1, 2	}	\$7,920 00	
<i>Survey of Northern Boundary of Wyoming Territory—</i> At a rate not exceeding \$70 per linear mile; estimated length 344 miles, being part of the 45th degree of north latitude included between the 27th and 34th meridians of longitude west from Washington Territory	Submitted					24,080 00	
NOTE.—\$24,080 is estimated for the establishment and permanent marking of this boundary, in order to segregate the large River Crow Indian reservation in Montana from the Territory of Wyoming; the south boundary of the reservation being common to the north boundary of Wyoming for a distance of 180 miles. The survey of the boundary is also required to close thereon the lines of public surveys in Montana, and to segregate the jurisdiction of the respective Territories.							
<i>Completion of Surveys and Unfinished Records—</i> Completing surveys in those States where the offices of surveyors general have been closed—act June 12, 1840, 5 Statutes, p. 384, and act of January 22, 1853, 10 Statutes, p. 152—and for preparing the unfinished records of public and private surveys in Arkansas, placed in the General Land Office for that purpose, and to be transferred to the authorities of that State	Submitted					10,000 00	
NOTE.—This estimate includes the expenses of the survey of the Cherokee reservation, in townships 7 and 8 north, range 21 west, Arkansas, ceded to the United States by treaty of April 12, 1834—Revision of Indian Treaties, pages 63 and 64—and survey of Detroit arsenal grounds, in the State of Michigan, in accordance with the provisions of the act of March 3, 1875, (18 Statutes, page 510.)							
<i>Renewing Mutilated Records in the General Land Office—</i> Renewing and reprotracting the official township plats of the public and private surveys in Ohio, Indiana, Illinois, Michigan, Missouri, Arkansas, Mississippi, and Alabama	Submitted					10,000 00	
NOTE.—This amount is needed for the purpose of supplying the place of those plats in the General Land Office, which, owing to lapse of time and constant use, have become obliterated to such an extent as to be no longer available.							
<i>Boundary Line between the States of Georgia and Florida—</i> Adjusting claims between the Watson and Orr and Whitner lines, extending from the confluence of Flint with the Chattahoochee rivers to the source of Ste. Mary's river	Mar. 13, 1860 Apr. 9, 1872 Submitted	12 17	11 52	1 1	}	5,000 00	
<i>Geological Survey of the Territories—</i> Continuation of the geological and geographical survey of the Territories of the United States: By the first division, under Professor F. V. Hayden	Appropriated	18	374	1	\$75,000 00		
By the second division, under Professor J. W. Powell	do				60,000 00		
Engraving maps, charts, sections, cuts, &c., of the annual and final reports of the survey by the first division	do				20,000 00		
Preparation and publication of the maps, charts, geological sections, and other engravings necessary to illustrate the reports of the second division	do				20,000 00		
Office rent, first division	Submitted				3,600 00		
Erection of permanent monuments on such geodetic points as may be needed by the General Land Office for the rectangular surveys over the region already surveyed by the second division	do				15,000 00		
NOTE.—For explanation of these estimates, see Appendix, marked "M."						193,600 00	\$140,000 00
Total Surveying Public Lands						1,165,200 00	830,000 00
Total Miscellaneous under Interior Department						1,165,200 00	830,000 00
Total Miscellaneous						13,881,185 79	9,666,607 66

PERMANENT APPROPRIATIONS.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ended June 30, 1875.
		Vol. or R. S.	Page.	Sec.			
PERMANENT SPECIFIC.							
UNDER THE TREASURY DEPARTMENT.							
Smithsonian Institution— Specific appropriation of \$39,000 to pay for the erection of buildings and expenses of the Smithsonian Institution, being six per cent. on the fund derived from the bequest of James Smithson.....		R. S.	734	3689	\$39,000 00	\$39,000 00	\$39,050 88
Collecting Revenue from Customs— Specific appropriation of \$2,750,000 for the expenses of collecting the revenue from customs for each half-year, in addition to such sums as may be received from fines, penalties, and forfeitures connected with the customs, and from fees paid into the Treasury by customs officers, and from storage, cartage, drayage, labor, and services.....		R. S.	729	3687	5,500,000 00	5,500,000 00	5,500,000 00
UNDER THE WAR DEPARTMENT.							
Arming and Equipping the Militia— Specific appropriation of \$200,000 annually for the purpose of providing arms and military equipments for the whole body of the militia of the United States.....		R. S.	290	1661	200,000 00	200,000 00	200,000 00
Total Permanent Specific Appropriations.....					5,739,000 00	5,739,000 00	5,739,050 88
PERMANENT INDEFINITE.							
LEGISLATIVE.							
Salaries and Expenses, Southern Claims Commission— Indefinite appropriation to pay the salaries and actual expenses of office rent, furniture, fuel, stationery, and printing of the Southern Claims Commission.....		R. S.	729	3689	\$52,800 04	\$52,800 04	\$51,800 00
EXECUTIVE.							
UNDER THE DEPARTMENT OF STATE.							
Estates of Decedents, Trust Fund— Indefinite appropriation of the proceeds of the personal estates of American citizens who die abroad, to be paid to their legal representatives upon proper demand and proof.....		R. S.	729	3689	\$1,500 00	\$1,500 00	\$32,225 02
UNDER THE TREASURY DEPARTMENT.							
Return of Proceeds of Captured and Abandoned Property— Indefinite appropriation for the return of proceeds from the sale of captured and abandoned property to the owners thereof, who may, to the satisfaction of the Court of Claims, prove their right to and ownership of said property.....		R. S.	729	3689	\$1,000,000 00	\$1,500,000 00	\$880,619 34
Refunding Taxes Illegally Collected— Indefinite appropriation to refund to persons money collected from them without warrant of law, as in payment of dues under the direct-tax laws.....		R. S.	730	3689	1,000 00	1,000 00	893 00
Refunding the National Debt— Indefinite appropriation of one-half of one per cent. of the amount of bonds authorized under this act, to pay the expenses of preparing, issuing, and disposing of the same.....		R. S.	730	3689	400,000 00	600,000 00	150,255 51
Sinking Fund— Indefinite appropriation of one per cent. of the entire debt of the United States, to be set apart as a sinking fund for the purchase or payment of the public debt, in such manner as the Secretary of the Treasury shall from time to time direct.....		R. S.	730	3689	22,154,908 00	22,322,845 00	25,523,461 56
Indefinite appropriation of an amount equal to the interest on all bonds belonging to the sinking fund, to be applied, as the Secretary of the Treasury shall from time to time direct, to the purchase or payment of the public debt.....		R. S.	729	3688	11,908,469 00	9,970,847 00	
NOTE.—The amount actually required for the sinking fund cannot be accurately determined at the time the estimate is made, as it depends upon what the principal of the debt may be seven months subsequently. Changes are liable to occur in the outstanding amount represented by coin certificates, certificates of deposit, and fractional currency—which are considered as a part of the debt—as also in the accrued interest which may be due on the bonds obtained for the fund.							

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ending June 30, 1875.
		Vol. or R. S.	Page.	Sec.			
<i>Interest on the Public Debt—</i>							
Indefinite appropriation for payment of interest on the public debt viz:							
Matured debt, unclaimed interest..... \$1,000,000		R. S.	730	3689			
Navy pension fund..... 420,000	July 1, 1864	13	414	1			
Loan of 1858..... 13,000	July 23, 1868	15	170	1			
Loan of February, 1861, (1881's)..... 1,104,900	June 14, 1858	11	365	1			
Oregon-war debt..... 56,700	Feb. 8, 1861	12	129	1			
Loan of July and August, 1861, (1881's).... 11,359,281	Mar. 2, 1861	12	199	1			
Loan of 1863, (1881's)..... 4,500,000	July 17, 1861	12	259	1			
Ten-forties of 1864..... 9,728,315	Aug. 5, 1861	12	313	1			
Five-twenties of 1865..... 9,152,061	Mar. 3, 1863	12	709	1			
Consols of 1865..... 12,159,786	Mar. 3, 1864	13	13	1			
Consols of 1867..... 18,637,365	Mar. 3, 1865	13	468	1			
Consols of 1868..... 2,248,440	do						
Funded loan of 1881..... 25,775,000	do						
	July 14, 1870	16	272	2			
	Jan. 20, 1871	16	399	1			
					96,154,848 00	\$97,855,690 50	\$99,209,593 85
<i>Interest on Pacific Railway Stock—</i>							
Indefinite appropriation for payment of interest on the public debt.....		R. S.	730	3689			
	July 1, 1862	12	489	1			
	July 2, 1864	13	356	1			
					3,877,410 72	3,877,410 72	3,883,950 72
<i>Salaries and Expenses of Steamboat Inspectors—</i>							
Indefinite appropriation of the revenues received into the Treasury from the inspection of steam-vessels, and the licensing of the officers of such vessels; for the payment of the salaries of all supervising inspectors, local inspectors, assistant inspectors, supervising inspector general and clerks, together with their travelling and other expenses when on official duty; and for all instruments, books, blanks, stationery, furniture, and other things necessary to carry into effect the provisions of this act.....		R. S.	730	3689	275,000 00	275,000 00	260,944 75
<i>Payment for Coin, Nickels, &c., destroyed at Chicago—</i>							
Indefinite appropriation of such sums as may be required in the adjustment of the accounts of the collector of customs and <i>ex-officio</i> depositary at Chicago, to allow him a proper credit for moneys held by him and destroyed by fire in said city on the ninth and tenth days of October, eighteen hundred and seventy-one.....		R. S.	729	3689			809 04
<i>Refunding to National Banking Associations Excess of Duty—</i>							
Indefinite appropriation of such sums as may have been paid by national banks in excess of the amounts due from them on account of the duty required to be paid to the Treasurer of the United States.....		R. S.	1015	5218	100 00	100 00	258 40
<i>Refunding Proceeds of Cotton Seized—</i>							
Indefinite appropriation of the amount actually covered into the Treasury as net proceeds of the sale of cotton unlawfully seized by the agents of the Government, after the thirtieth day of June, eighteen hundred and sixty-five, which is required to be paid to the lawful owners thereof or their legal representatives.....	May 18, 1872	17	134	5	25,000 00	50,000 00	36,938 72
<i>Refunding Moneys for Lands Redeemed—</i>							
Indefinite appropriation for refunding the principal and interest of the purchase money of lands redeemed after the sale of the same, under "An act further to amend an act entitled 'An act for the collection of direct taxes in the insurrectionary districts within the United States, and for other purposes,'" approved June 7, 1862.....		R. S.	729	3689			980 23
<i>Refunding Moneys Erroneously Received and Covered into the Treasury—</i>							
Indefinite appropriation to refund moneys received and covered into the Treasury before the payment of legal charges against the same.....		R. S.	730	3689			1,081 04
<i>Repayment for Lands sold for Direct Taxes—</i>							
Indefinite appropriation to provide for the redemption and sale of lands held by the United States under the several acts levying direct taxes.....		R. S.	729	3689		25,000 00	23,920 00
<i>Allowance or Drawback, (Internal Revenue)—</i>							
Indefinite appropriation to pay allowance or drawback on articles on which any internal duty or tax shall have been paid when said articles are exported.....		R. S.	730	3689	25,000 00	40,000 00	32,248 73

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ending June 30, 1875.
		Vol. or R. S.	Page.	Sec.			
<i>Refunding Taxes Illegally Collected, (Internal Revenue)—</i> Indefinite appropriation to refund and pay back taxes erroneously or illegally assessed or collected under the internal-revenue laws		R. S.	730	3689	\$200,000 00	\$550,000 00	\$169,136 77
<i>Refunding Moneys Erroneously Received and Covered into the Treasury, (Internal Revenue)—</i> Indefinite appropriation to refund moneys received and covered into the Treasury before the payment of legal and just charges against the same		R. S.	730	3689	500 00	500 00	150 00
<i>Redemption of Stamps, (Internal Revenue)—</i> Indefinite appropriation of such sum of money as may be necessary to repay the amount or value paid for stamps which may have been spoiled, destroyed, or rendered useless or unfit for the purpose intended, or which, through mistake, may have been improperly or unnecessarily used		R. S.	730	3689		10,000 00	31,867 05
<i>Collecting Revenue from Customs—</i> Indefinite appropriation of such sums as may be received during each year from fines, penalties, and forfeitures connected with the customs and from storage, cartage, drayage, and labor; for the payment of expenses of collecting the revenue from customs—this sum being in addition to the specific appropriation of \$2,750,000 each half-year for this purpose made by the same act		R. S.	729	3687	1,000,000 00	1,000,000 00	1,341,370 76
<i>Unclaimed Merchandise, (Customs)—</i> Indefinite appropriation to repay to claimants the overplus received from the sale of unclaimed merchandise, on due proof of their property and entitlement		R. S.	731	3689	500 00	500 00	4,650 14
<i>Repayment to Importers Excess of Deposits, (Customs)—</i> Indefinite appropriation to repay to importers the excess of deposits for unascertained duties, or duties or other moneys paid under protest		R. S.	731	3689	2,000,000 00	2,300,000 00	1,863,657 85
<i>Debentures or Drawbacks, Bounties or Allowances, (Customs)—</i> Indefinite appropriation for the payment of debentures or drawbacks, bounties and allowances, which are or may be authorized and payable according to laws authorizing them: <i>Provided</i> , The collectors of customs shall be the disbursing agents to pay the same		R. S.	731	3689	1,000,000 00	2,500,000 00	1,626,562 17
<i>Debentures and other Charges, (Customs)—</i> Indefinite appropriation to pay debentures and other charges arising from duties, the revenue remaining in the hands of the collecting officers not being sufficient to pay said debentures		R. S.	730	3689			2,284 57
<i>Refunding Duties on Goods Destroyed, (Customs)—</i> Indefinite appropriation for refunding duties paid or accruing on goods, wares, or merchandise injured or destroyed by accidental fire, or other casualty, while in the custody of the officers of customs, in any public or private warehouse under bond, or in the appraisers' stores undergoing appraisal, in pursuance of law or regulations of the Treasury Department, or while in transportation under bond from the port of entry to any other port of the United States		R. S.	731	3689	500 00	500 00	
<i>Refunding Duties, (Customs)—</i> Indefinite appropriation to refund to parties entitled to refund of duties, under the 26th section of the act of July 14, 1871, and joint resolution of January 30, 1871		R. S.	731	3689	5,000 00	5,000 00	9,810 93
<i>Refunding Moneys Erroneously Received and Covered, (Customs)—</i> Indefinite appropriation to refund moneys received and covered into the Treasury before the payment of legal and just charges against the same		R. S.	730	3689	1,000 00	1,000 00	230 00
<i>Compensation of Persons Employed in Insurrectionary States, (Customs)—</i> Indefinite appropriation to pay such persons as were actually employed in the insurrectionary States in connection with the Treasury Department as officers of the United States		R. S.	730	3689			4,068 65

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ended June 30, 1875.
		Vol. or R. S.	Page	Sec.			
<i>Marine-Hospital Establishment, (Customs)—</i>							
Indefinite appropriation of the money collected from masters or owners of vessels of the United States, at the rate of forty cents per month for every seaman employed, to constitute a general fund to be used for the benefit and convenience of sick and disabled American seamen.....		R. S.	731	3689	\$400,000 00	\$400,000 00	\$338,893 78
Indefinite appropriation of the proceeds of leases and sales of marine-hospital buildings, and lands appertaining thereto, for the Marine-Hospital Establishment..		R. S.	734	3692			
Total Permanent Indefinite under Treasury Department					140,429,235 72	143,285,393 22	135,398,637 56
UNDER THE WAR DEPARTMENT.							
<i>Bounty to Soldiers—</i>							
Indefinite appropriations for payment of bounties to soldiers or their widows or legal heirs, under the 12th, 13th, 14th, 15th, and 16th sections of "An act making appropriations for sundry civil expenses of the Government for the year ending June 30, 1867, and for other purposes".....		R. S.	732	3689	\$150,000 00	\$200,000 00	\$227,111 44
<i>Commutation of Rations to Prisoners of War in Rebel States—</i>							
Indefinite appropriation for payment of commutation of rations at cost prices, during the period of their imprisonment, to all United States soldiers, sailors, and marines who were held as prisoners of war in the rebel States	July 25, 1866	14	364	1			4,000 00
<i>Travelling Expenses of California and Nevada Volunteers—</i>							
Indefinite appropriation to pay for the travelling expenses of such California and Nevada volunteers as were discharged in New Mexico, Arizona, or Utah, and at points distant from the place or places of enlistment, such proportionate sums, according to the distance travelled, as have been paid to the troops of other States similarly situated		R. S.	732	3689		5,000 00	10,185 15
<i>Soldiers' Home—</i>							
Indefinite appropriation of all stoppages or fines adjudged against soldiers by sentence of courts-martial, over and above any amount that may be due for the reimbursement of Government or of individuals; all forfeitures on account of desertion; all moneys, not exceeding two-thirds of the balance on hand, of the hospital fund, and of the post fund of each military station, after deducting the necessary expenses of the year; and all moneys belonging to the estates of deceased soldiers, which now are or may hereafter be unclaimed for the period of three years subsequent to the death of said soldier or soldiers, to be repaid by the commissioners of the institution, upon the demand of the heirs or legal representatives of the deceased		R. S.	732	3689	150,000 00	150,000 00	154,604 01
<i>Horses and other Property lost in the Military Service—</i>							
Indefinite appropriation to pay for horses, mules, oxen, wagons, carts, boats, sleighs, or harness lost, captured, destroyed, abandoned, or killed while in the military service, under "An act to provide for the payment for horses and other property lost or destroyed in the military service of the United States"		R. S.	732	3689	10,000 00	50,000 00	35,870 37
<i>Rogue River Indian War—</i>							
Indefinite appropriation to pay all claims for services rendered in the late war with the Rogue River Indians in Oregon, and for subsistence, forage, medical stores, and other necessary and proper supplies furnished for the prosecution of said war	July 17, 1854	10	307	1			17,068 70
<i>Allowance for Reduction of Wages under Eight-hour Law—</i>							
Indefinite appropriation of such sum as may be required in the settlement of all accounts for services of laborers, workmen, and mechanics employed by or on behalf of the Government, between the twenty-fifth day of June, eighteen hundred and sixty-eight—the date of the act constituting eight hours a day's work for all such laborers, workmen, and mechanics—and the nineteenth day of May, eighteen hundred and sixty-nine—the date of the proclamation of the President concerning such pay—to settle and pay for the same without reduction on account of reduction of hours of labor by said act, when it shall be made to appear that such was the sole cause of the reduction of wages		R. S.	732	3689		20,000 00	

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ended June 30, 1875.
		Vol. or R. S.	Page.	Sec.			
<i>Travelling Expenses of First Michigan Cavalry—</i> Indefinite appropriation for the payment of travelling expenses of the members of the First Michigan cavalry, from the place where they were mustered out of service in 1866, to the place of their enrolment, a sum sufficient to allow each member three hundred and twenty-five dollars, deducting therefrom the amount paid to each for commutation of travel, pay, and subsistence by the Government, when thus mustered out.....	July 28, 1866	14	322	10	.....	.....	\$2,000 00
Total Permanent Indefinite under War Department.....					\$310,000 00	\$425,000 00	450,839 67
UNDER THE NAVY DEPARTMENT.							
<i>Indemnity to Seamen and Marines for Lost Clothing—</i> Indefinite appropriation to allow and pay to each person, not an officer, employed on a vessel of the United States, sunk or otherwise destroyed, and whose personal effects have been lost, a sum not exceeding sixty dollars. In the event of the death of the person, this sum is to be paid to his legal representatives.....		R. S.	733	3689	\$5,000 00	\$5,000 00	\$8,912 09
<i>Allowance for Reduction of Wages under Eight-hour Law—</i> Indefinite appropriation of such sum as may be required in the settlement of all accounts for the services of laborers, workmen, and mechanics, employed by or on behalf of the Government, between the twenty-fifth day of June, eighteen hundred and sixty-eight—the date of the act constituting eight hours a day's work for all such laborers, workmen, and mechanics—and the nineteenth day of May, eighteen hundred and sixty-nine—the date of the proclamation of the President concerning such pay—to settle and pay for the same without reduction on account of reduction of hours of labor by said act, when it shall be made to appear that such was the sole cause of the reduction of wages.....		R. S.	732	3689	.....	5,000 00	
Total Permanent Indefinite under Navy Department.....					5,000 00	10,000 00	8,912 09
UNDER THE INTERIOR DEPARTMENT.							
<i>Deposits by Individuals for Surveying Public Lands—</i> Indefinite appropriation of the amount deposited by individuals to pay the cost and expenses incident to the survey of lands, not mineral or reserved, upon which they have settled, any excess of the sums so deposited, over and above the actual cost of surveys, comprising all expenses incident thereto, for which they were severally deposited, to be repaid to the depositors, respectively.....		R. S.	733	3689	\$50,000 00	\$100,000 00	\$122,910 34
<i>Indemnity for Swamp Lands to States—</i> Indefinite appropriation to pay to the States the proceeds of swamp lands within their limits which may have been erroneously sold by the United States.....		R. S.	733	3689	2,000 00	10,000 00	43,386 94
<i>Refunding Money for Lands Erroneously Sold—</i> Indefinite appropriation to pay to the purchaser or purchasers the sum or sums of money received for lands erroneously sold by the United States.....		R. S.	733	3689	10,000 00	10,000 00	35,036 55
<i>Maryland Institution for Instruction of the Blind—</i> Indefinite appropriation to pay for the instruction of the indigent blind children formerly instructed in the "Columbia Institution for the Instruction of the Deaf, Dumb, and Blind," in Maryland, or some other State.....		R. S.	733	3689	2,500 00	2,500 00	2,804 16
<i>Five, Three, and Two per cent. Fund to States, (Lands)—</i> Indefinite appropriation to pay to the several States five per cent. (two and three per cent. only to certain of the States) of the net proceeds of sales of all public lands lying within their limits, for the purpose of education, or of making public roads and improvements. The amounts paid during the fiscal year ending June 30, 1875, were: to Missouri, \$201 73; to Michigan, \$21,289 31; to Minnesota, \$5,067 93; to Nebraska, \$2,776 05; to Oregon, \$1,245 75; to Wisconsin, \$63,855 75.....	April 19, 1864	R. S. 13	733 49	3689 12	} 25,000 00	50,000 00	94,436 52

Estimates of appropriations required for the service of the fiscal year ending June 30, 1877—Continued.

General object, (title of appropriation,) and details and explanations.	Date of acts, or treaties, providing for the expenditure.	References to Stats. at Large, or to Revised Statutes.			Estimated am't required for service of year ending June 30, 1877.	Estimated amount required for service of year ending June 30, 1876.	Amount appropriated for the fiscal year ended June 30, 1875.
		Vol. or R. S.	Page.	Sec.			
<i>Reimbursement of Marshals for Expenses of taking Ninth Census—</i> Indefinite appropriation to reimburse United States marshals for moneys necessarily expended by them in taking the Ninth Census, in excess of the compensation allowed them under the law in force before the passage of the act approved June 8, 1872.....	June 8, 1872	17	339	1	\$1,000 00	\$1,000 00	
<i>Maintenance and Education of Helen and Heloise Lincoln—</i> Indefinite appropriation to pay interest on five thousand dollars reserved from annuities due Kiowa Indians, to be used for the maintenance, education, and support during their lifetime, until they attain the age of twenty-one years, of Helen and Heloise Lincoln, when the principal shall be paid them.....	May 15, 1870	16	377	1, 2	375 00	375 00	\$250 00
Total Permanent Indefinite under the Interior Department.....					90,875 00	173,875 00	298,824 51
Total Permanent Indefinite under Executive.....					140,836,610 72	143,895,768 22	136,189,438 85
JUDICIAL.							
SUPREME COURT OF THE UNITED STATES.							
<i>Salaries, Justices, &c., Supreme Court—</i> Indefinite appropriation to pay the reporter of the Supreme Court for three hundred copies of the second volume of the decisions of the court.....		R. S.	125	682	\$1,500 00	\$1,500 00	\$1,500 00
Total Permanent Indefinite under Judicial.....					1,500 00	1,500 00	1,500 00
Total Permanent Specific and Indefinite Appropriations.....					146,629,910 76	149,689,068 26	141,981,789 73

RECAPITULATION.

RECAPITULATION BY TITLES.

Objects.	Estimates for 1877.	Appropriations for 1876.
LEGISLATIVE.		
UNITED STATES SENATE.		
Salaries and mileage of Senators.....	\$400,000 00	\$400,000 00
General salary account of the Senate.....	146,068 80	146,268 80
Compiling and preparing Congressional Directory.....	1,200 00	1,200 00
Contingent expenses of the Senate.....	120,990 00	142,340 00
Appropriations in 1876 not asked for in 1877*.....		25,100 00
Total United States Senate.....	668,258 80	714,908 80
HOUSE OF REPRESENTATIVES.		
Salaries and mileage of members and delegates.....	\$1,650,000 00	\$1,650,000 00
General salary account of the House.....	197,794 70	227,074 70
Contingent expenses of the House.....	179,785 00	182,285 00
Appropriations in 1876 not asked for in 1877*.....		1,800 00
Total House of Representatives.....	2,027,579 70	2,061,159 70
LEGISLATIVE MISCELLANEOUS.		
Pay of Capitol police.....	\$52,600 00	\$52,600 00
General salary account of Public Printer.....	15,114 00	15,117 60
Contingent expenses of Public Printer.....	2,500 00	2,500 00
General salary account of the Library of Congress.....	29,340 00	29,340 00
Increase of the Library of Congress.....	15,000 00	15,000 00
Contingent expenses of the Library of Congress.....	2,500 00	2,500 00
General salary account of the Botanic Garden.....	12,146 00	12,146 00
Improving Botanic Garden.....	5,000 00	7,900 00
General salary account of the Court of Claims.....	31,340 00	29,840 00
Contingent expenses of the Court of Claims.....	4,000 00	5,000 00
Appropriations in 1876 not asked for in 1877*.....		15,550 00
Total Legislative Miscellaneous.....	169,540 00	187,493 60
Total Legislative.....	2,865,378 50	2,963,562 10
EXECUTIVE.		
EXECUTIVE PROPER.		
Salary of the President.....	\$50,000 00	\$50,000 00
Salary of the Vice-President.....	8,000 00	8,000 00
General salary account of the Executive office.....	13,800 00	13,800 00
Contingent expenses of the Executive office.....	6,000 00	6,000 00
Postage.....	600 00	600 00
Total Executive Proper.....	78,400 00	78,400 00
DEPARTMENT OF STATE.		
General salary account.....	\$135,360 00	\$126,980 00
Publication of the annual statutes.....	40,000 00	30,000 00
Contingent expenses.....	51,750 00	35,570 00
Postage.....	20,000 00	25,000 00
Appropriations in 1876 not asked for in 1877*.....		50,000 00
Total Department of State.....	247,110 00	267,550 00
TREASURY DEPARTMENT.		
General salary account.....	\$3,175,440 50	\$3,175,836 50
Temporary clerks.....	60,000 00	60,000 00
Stationery.....	50,000 00	50,000 00
Postage.....	100,000 00	100,000 00
Contingent expenses.....	144,500 00	144,500 00
Total Treasury Department.....	3,529,940 50	3,530,336 50
INDEPENDENT TREASURY.		
General salary account.....	\$358,880 00	\$355,880 00
Compensation of depositaries.....	3,000 00	3,000 00
Compensation of special agents.....	6,000 00	4,000 00
Checks and certificates of deposit.....	13,000 00	13,000 00
Contingent expenses.....	60,000 00	70,000 00
Total Independent Treasury.....	440,880 00	445,880 00

Recapitulation by Titles—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
MINTS AND ASSAY OFFICES.		
General salary account	\$168,110 00	\$161,610 00
Wages of workmen	788,035 00	709,835 00
Contingent expenses	629,800 00	333,700 00
Collecting mining statistics	7,000 00	15,000 00
Appropriations in 1876 not asked for in 1877*		15,000 00
Total Mints and Assay Offices	1,592,945 00	1,235,145 00
TERRITORIAL GOVERNMENTS.		
General salary account	\$174,000 00	\$174,000 00
Legislative expenses	87,090 50	142,323 90
Contingent expenses	9,500 00	9,000 00
Expenses of the Board of Health, District of Columbia	32,175 00	26,117 50
Total Territorial Governments	302,765 50	351,441 40
INTERNAL REVENUE.		
Assessing and collecting	\$4,451,000 00	\$4,451,000 00
Punishment for violation of internal-revenue laws	100,000 00	100,000 00
Stamps, paper, and dies	500,000 00	500,000 00
Total Internal Revenue	5,051,000 00	5,051,000 00
TREASURY MISCELLANEOUS.		
General salary account of life-saving service	\$207,596 00	\$201,580 00
Contingent expenses of life-saving service	40,000 00	30,000 00
Revenue-cutter service	1,027,883 40	1,027,883 40
Suppressing counterfeiting and fraud	125,000 00	125,000 00
Compensation in lieu of moieties	200,000 00	200,000 00
Appropriations in 1876 not asked for in 1877*		773,350 00
Total Treasury Miscellaneous	1,600,479 40	2,357,813 40
WAR DEPARTMENT.		
General salary account	\$1,011,680 00	\$1,001,240 00
Contingent expenses	92,000 00	80,000 00
Postage	80,612 00	85,669 00
Salaries of employes under Commissioner of Public Buildings	54,276 00	50,328 00
Contingent expenses of public buildings and grounds	2,000 00	2,000 00
Total War Department	1,240,568 00	1,219,237 00
NAVY DEPARTMENT.		
General salary account	\$124,310 00	\$121,990 00
Contingent expenses	19,450 00	19,250 00
Postage	20,000 00	20,000 00
Total Navy Department	163,760 00	161,240 00
INTERIOR DEPARTMENT.		
General salary account	\$1,424,660 00	\$1,362,020 00
Contingent expenses	338,210 00	284,010 00
Postage	129,750 00	125,000 00
Copies of drawings	40,000 00	100,000 00
Plates for Patent Office Official Gazette	40,000 00	40,000 00
Photo-lithographing	40,000 00	40,000 00
Tracings	35,000 00	35,000 00
Total Interior Department	2,047,620 00	1,986,030 00
PUBLIC LAND OFFICES.		
General salary account of surveyors general	\$166,400 00	\$151,300 00
Contingent expenses of surveyors general	50,200 00	44,600 00
Salaries and commissions of registers and receivers	531,700 00	525,700 00
Contingent expenses of land offices	58,540 00	57,940 00
Expenses of depositing public moneys	13,000 00	13,000 00
Depredations on public timber	5,000 00	5,000 00
Total Public Land Offices	824,840 00	797,540 00
INTERIOR MISCELLANEOUS.		
Current expenses, Government Hospital for the Insane	\$155,895 00	\$150,171 00
Current expenses, Columbia Hospital for Women	24,300 00	24,300 00
Current expenses, Columbia Institution for the Deaf and Dumb	48,000 00	48,000 00
Current expenses, National Soldiers' and Sailors' Orphans' Home	10,000 00	10,000 00
Support of Freedmen's Hospital and Asylum	46,600 00	45,000 00
Preservation of collections, Smithsonian Institution	25,000 00	20,000 00
International Exhibition of 1876, Bureau of Education	34,000 00	
Total Interior Miscellaneous	343,795 00	297,471 00

Recapitulation by Titles—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
POST OFFICE DEPARTMENT.		
General salary account	\$496,212 00	\$470,852 00
Contingent expenses	84,900 00	53,600 00
Appropriations in 1876 not asked for in 1877*		30,000 00
Total Post Office Department	581,112 00	554,452 00
DEPARTMENT OF JUSTICE.		
General salary account	\$108,820 00	\$108,820 00
Contingent expenses	33,000 00	29,500 00
Defending suits in captured and abandoned property cases	30,000 00	50,000 00
Prosecution and collection of claims	5,000 00	5,000 00
Defending claims under convention with Mexico	5,000 00	5,000 00
Punishing violations of intercourse acts and frauds	8,000 00	8,000 00
Prosecution of crimes	30,000 00	25,000 00
Postage	5,000 00	10,000 00
Current expenses, Reform School in District of Columbia	10,000 00	10,000 00
Salaries and expenses, Metropolitan police	205,270 00	205,270 00
Warden of the jail	2,000 00	2,000 00
Appropriations in 1876 not asked for in 1877*		5,009 46
Total Department of Justice	442,090 00	463,599 46
DEPARTMENT OF AGRICULTURE.		
General salary account	\$92,990 00	\$77,180 00
Contingent expenses	15,300 00	12,100 00
Collecting agricultural statistics	10,000 00	15,000 00
Purchase and distribution of valuable seeds	75,500 00	65,000 00
Experimental garden	10,000 00	8,000 00
Museum and herbarium	5,000 00	2,000 00
Furniture, cases, and repairs	7,700 00	3,300 00
Library	1,750 00	1,250 00
Laboratory	1,500 00	1,300 00
Postage	10,000 00	52,000 00
Total Department of Agriculture	229,740 00	237,130 00
Total Executive	18,717,045 40	19,034,265 76
JUDICIAL.		
General salary account of the Supreme Court	\$150,500 00	\$150,500 00
General salary account of the district courts	193,000 00	193,000 00
General salary account of the supreme court, District of Columbia	20,500 00	20,500 00
General salary account of district attorneys	19,350 00	19,350 00
General salary account of district marshals	12,100 00	11,900 00
General expenses of courts	3,000,000 00	3,000,000 00
Support of convicts	8,000 00	8,000 00
Total Judicial	3,403,450 00	3,403,250 00
Total Civil Establishment	24,985,873 90	25,401,077 86
FOREIGN INTERCOURSE.		
Diplomatic salary account	\$391,500 00	\$391,500 00
Contingent expenses of foreign missions	100,000 00	100,000 00
Consular salary account	496,600 00	495,400 00
Contingent expenses of consulates	134,850 00	134,850 00
Loss on bills of exchange	48,000 00	48,000 00
Salaries and expenses of United States and Spanish Claims Commission	15,000 00	15,000 00
Prisons for American convicts	21,250 00	21,250 00
Bringing home criminals	5,000 00	5,000 00
Relief and protection of American seamen	100,000 00	100,000 00
Rescuing shipwrecked American seamen	5,000 00	5,000 00
Expenses under the neutrality act	20,000 00	20,000 00
Cape Spartel light	285 00	285 00
Allowance to widows or heirs of officers who die abroad	5,000 00	5,000 00
Rent of court-house and jail in Japan	5,000 00	5,000 00
Buildings and grounds for the legation in China	5,000 00	5,000 00
Appropriations in 1876 not asked for in 1877*		61,700 00
Total Foreign Intercourse	1,352,485 00	1,412,985 00
MILITARY ESTABLISHMENT.		
Expenses of Commanding General's office	\$5,000 00	\$5,000 00
Expenses of recruiting and contingent, Adjutant General's department	110,920 00	108,000 00
Signal service	12,500 00	12,500 00
Pay, and travelling and general expenses of the Army	12,840,288 50	11,400,000 00
Pay of Military Academy	257,401 00	235,000 00
Subsistence of the Army	2,570,000 00	2,484,330 00

Recapitulation by Titles—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
MILITARY ESTABLISHMENT—Continued.		
Regular supplies, Quartermaster's department.....	\$4,600,000 00	\$4,250,000 00
Incidental expenses, Quartermaster's department.....	1,500,000 00	1,200,000 00
Horses for cavalry and artillery.....	400,000 00	300,000 00
Transportation of the Army.....	4,500,000 00	4,000,000 00
Barracks and quarters.....	1,900,000 00	1,500,000 00
Construction and repair of hospitals.....	100,000 00	100,000 00
Clothing and equipage.....	1,500,000 00	1,450,000 00
National cemeteries.....	250,000 00	150,000 00
Contingencies of the Army.....	100,000 00	100,000 00
Medical department.....	240,000 00	210,000 00
Engineer department.....	20,000 00	19,000 00
Ordnance service.....	200,000 00	125,000 00
Ordnance, ordnance stores, and supplies.....	750,000 00	370,000 00
Manufacture of arms.....	500,000 00	150,000 00
Armament of fortifications.....	1,250,000 00	75,000 00
Current and miscellaneous expenses, Military Academy.....	91,069 00	87,240 00
Appropriations in 1876 not asked for in 1877*.....		223,917 79
Total Military Establishment.....	33,697,178 50	28,554,987 79
NAVAL ESTABLISHMENT.		
Pay of the Navy.....	\$7,600,000 00	\$6,250,000 00
Contingent of the Navy.....	125,000 00	100,000 00
Civil establishment at navy yards.....	160,000 00	158,000 00
Navigation and supplies, Bureau of Navigation.....	115,500 00	115,500 00
Contingent, Bureau of Navigation.....	4,000 00	4,000 00
Hydrographic work, Bureau of Navigation.....	67,800 00	67,800 00
Naval Observatory and Nautical Almanac.....	46,000 00	45,000 00
Purchase or construction of vessels, Bureau of Navigation.....	60,000 00	
Ordnance and ordnance stores, Bureau of Ordnance.....	400,000 00	340,000 00
Torpedo corps, Bureau of Ordnance.....	102,000 00	93,000 00
Contingent, Bureau of Ordnance.....	1,000 00	1,000 00
Armament of vessels, Bureau of Ordnance.....	510,000 00	
Equipment of vessels, Bureau of Equipment and Recruiting.....	1,500,000 00	1,250,000 00
Contingent, Bureau of Equipment and Recruiting.....	100,000 00	75,000 00
Enlistment of boys, Bureau of Equipment and Recruiting.....	60,000 00	
Maintenance of yards and docks, Bureau of Yards and Docks.....	860,000 00	760,000 00
Contingent, Bureau of Yards and Docks.....	50,000 00	40,000 00
Naval Asylum, Bureau of Yards and Docks.....	58,177 00	52,973 00
Surgeons' necessities, Bureau of Medicine and Surgery.....	40,000 00	30,000 00
Repairs and improvements, Bureau of Medicine and Surgery.....	20,000 00	20,000 00
Civil establishment, Bureau of Medicine and Surgery.....	50,000 00	35,000 00
Contingent, Bureau of Medicine and Surgery.....	25,000 00	25,000 00
Provisions for the Navy, Bureau of Provisions and Clothing.....	1,279,000 00	1,279,000 00
Contingent, Bureau of Provisions and Clothing.....	60,000 00	50,000 00
Construction and repair, Bureau of Construction and Repair.....	3,300,000 00	3,300,000 00
Protecting timber lands, Bureau of Construction and Repair.....	5,000 00	5,000 00
Building and repair of vessels, Bureau of Construction and Repair.....	900,000 00	
Steam machinery, Bureau of Steam Engineering.....	2,200,000 00	1,800,000 00
Pay of Naval Academy.....	114,382 40	113,817 90
Repairs and improvements, Naval Academy.....	74,000 00	24,000 00
Heating and lighting, Naval Academy.....	15,000 00	15,000 00
Contingent expenses, Naval Academy.....	45,000 00	41,600 00
Pay of Marine Corps.....	629,545 00	624,760 00
Provisions, clothing, miscellaneous, and contingent, Marine Corps.....	295,262 00	295,856 00
Appropriations in 1876 not asked for in 1877*.....		305,000 00
Total Naval Establishment.....	20,871,666 40	17,316,306 90
INDIAN AFFAIRS.		
Current and contingent expenses of the Indian service.....	\$251,300 00	\$213,800 00
Fulfilling treaties with Indian tribes.....	3,635,362 94	3,225,474 61
Removal, settlement, subsistence, and support of Indians.....	1,307,000 00	1,085,000 00
General and miscellaneous expenses of Indian service.....	488,734 70	382,500 00
Interest on trust-fund stocks.....	105,398 00	97,148 00
Appropriations in 1876 not asked for in 1877*.....		121,704 39
Total Indian Affairs.....	5,787,795 64	5,125,627 00
PENSIONS.		
Army pensions.....	\$29,000,000 00	\$29,500,000 00
Navy pensions.....	533,500 00	500,000 00
Total Pensions.....	29,533,500 00	30,000,000 00

Recapitulation by Titles—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
PUBLIC WORKS.		
Custom-houses and other buildings under Treasury Department.....	\$5,363,446 86	\$4,358,660 08
Appropriations in 1876 not asked for in 1877*.....		783,865 84
Light-houses, beacons, and fog-signals.....	789,400 00	59,100 00
Appropriations in 1876 not asked for in 1877*.....		736,700 00
Armories and arsenals.....	917,218 00	427,165 00
Fortifications and other works of defence.....	2,044,000 00	815,000 00
Appropriations in 1876 not asked for in 1877*.....		50,000 00
Improving harbors and rivers.....	14,301,100 00	6,293,000 00
Appropriations in 1876 not asked for in 1877*.....		498,517 50
Buildings and grounds in and around Washington.....	2,036,920 44	934,250 00
Military Academy.....	89,000 00	42,500 00
Buildings under Quartermaster General.....	500,000 00	
Navy yards and stations.....	1,725,000 00	1,090,000 00
Capitol building and grounds.....	475,000 00	254,500 00
Buildings and grounds, Government Hospital for Insane.....	225,000 00	28,740 00
Buildings and grounds, Columbia Institution for Deaf and Dumb.....	62,000 00	40,000 00
Buildings and grounds, Columbia Hospital for Women and Lying-in Asylum.....	15,500 00	25,000 00
Smithsonian-Institution building.....	5,000 00	12,500 00
Repairs of building, Department of Interior.....	18,000 00	85,000 00
Court-house, Washington, D. C.....	3,000 00	3,000 00
Agricultural Department grounds.....	21,825 00	11,990 00
Miscellaneous appropriations in 1876 not asked for in 1877*.....		205,573 68
Total Public Works.....	28,591,410 30	16,755,062 10
POSTAL SERVICE.		
Deficiency in the postal revenues.....	\$8,181,602 19	\$6,852,705 00
Postage.....	850,000 00	986,000 00
Mail-steamship subsidies.....	250,000 00	500,000 00
Appropriations in 1876 not asked for in 1877*.....		37,500 00
Total Postal Service.....	9,281,602 19	8,376,205 00
MISCELLANEOUS.		
Public printing, paper, binding, and lithographing.....	\$2,040,296 56	\$1,665,507 66
Payment of judgments of Court of Claims.....	2,000,000 00	400,000 00
Engraving and printing.....	1,944,875 00	1,628,000 00
Light-house Establishment.....	2,139,600 00	1,999,000 00
Coast Survey.....	961,600 00	862,000 00
Expenses of national currency.....	300,000 00	200,000 00
Transportation of United States securities.....	100,000 00	50,000 00
Inquiry, &c., respecting food-fishes.....	53,500 00	53,500 00
Metric standard of weights and measures.....	19,600 00	7,600 00
Current expenses of buildings under the Treasury Department.....	1,035,000 00	830,000 00
Observation and report of storms.....	415,092 64	415,000 00
Construction and repair of military telegraph lines.....	45,000 00	88,000 00
Surveys for military defences.....	50,000 00	30,000 00
Geographical surveys west of one-hundredth meridian.....	120,000 00	60,000 00
Collection and payment of bounty, &c., to colored soldiers and sailors.....	75,000 00	75,000 00
Expenses of military convicts.....	40,000 00	40,000 00
Publication of official records of the war of rebellion.....	50,000 00	50,000 00
Refunding to States expenses incurred in raising volunteers.....	250,000 00	250,000 00
Support of Leavenworth military prison, Fort Leavenworth, Kansas.....	61,688 15	
Support of National Home for Disabled Volunteer Soldiers.....	898,733 44	
International Exhibition of 1876, War Department.....	89,000 00	133,000 00
Engraving charts, Bureau of Navigation.....	20,000 00	
Transit of Venus.....	7,000 00	
Surveying the public lands.....	1,165,200 00	830,000 00
Appropriations for 1876 not asked for in 1877*.....		868,250 00
Total Miscellaneous.....	13,881,185 79	10,534,857 66
PERMANENT APPROPRIATIONS.		
LEGISLATIVE.		
MISCELLANEOUS.		
Salaries and expenses, Southern Claims Commission.....	\$52,800 04	\$52,800 04
EXECUTIVE.		
DEPARTMENT OF STATE.		
Estates of decedents, trust fund.....	\$1,500 00	\$1,500 00

* For details of these several items, see Appendix, marked "N."

Recapitulation by Titles—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
TREASURY DEPARTMENT.		
Smithsonian Institution	\$39,000 00	\$39,000 00
Collecting revenue from customs, (specific, \$5,500,000; indefinite, \$1,000,000)	6,500,000 00	6,500,000 00
Return of proceeds of captured and abandoned property	1,000,000 00	1,500,000 00
Refunding taxes illegally collected	1,000 00	1,000 00
Refunding the national debt	400,000 00	600,000 00
Sinking fund	34,063,377 00	32,293,692 00
Interest on the public debt	96,154,848 00	97,855,690 50
Interest on Pacific-Railway stock	3,877,410 72	3,877,410 72
Salaries and expenses of steamboat inspectors	275,000 00	275,000 00
Refunding to national banking associations excess of duty	100 00	100 00
Refunding proceeds of cotton seized	25,000 00	50,000 00
Payment for lands sold for direct taxes		25,000 00
Allowance or drawback, (internal revenue)	25,000 00	40,000 00
Refunding taxes illegally collected, (internal revenue)	200,000 00	550,000 00
Refunding moneys erroneously received and covered, (internal revenue)	500 00	500 00
Redemption of stamps, (internal revenue)		10,000 00
Unclaimed merchandise, (customs)	500 00	500 00
Repayment to importers excess of deposits, (customs)	2,000,000 00	2,300,000 00
Debentures or drawbacks, (customs)	1,000,000 00	2,500,000 00
Refunding duties on goods destroyed, (customs)	500 00	500 00
Refunding duties, (customs)	5,000 00	5,000 00
Refunding moneys erroneously received and covered, (customs)	1,000 00	1,000 00
Marine-Hospital Establishment	400,000 00	400,000 00
Total Permanent Appropriations under Treasury Department	145,968,235 72	148,824,393 22
WAR DEPARTMENT.		
Arming and equipping the militia	\$200,000 00	\$200,000 00
Bounty to soldiers	150,000 00	200,000 00
Travelling expenses of California and Nevada volunteers		5,000 00
Soldiers' Home	150,000 00	150,000 00
Horses and other property lost in the military service	10,000 00	50,000 00
Allowance for reduction of wages under eight-hour law		20,000 00
Total Permanent Appropriations under War Department	510,000 00	625,000 00
NAVY DEPARTMENT.		
Indemnity to seamen and marines for lost clothing	\$5,000 00	\$5,000 00
Allowance for reduction of wages under eight-hour law		5,000 00
Total Permanent Appropriations under Navy Department	5,000 00	10,000 00
INTERIOR DEPARTMENT.		
Deposits by individuals for surveying public lands	\$50,000 00	\$100,000 00
Indemnity for swamp lands to States	2,000 00	10,000 00
Refunding money for lands erroneously sold	10,000 00	10,000 00
Maryland Institution for the Blind	2,500 00	2,500 00
Five, three, and two per cent. fund to States, (lands)	25,000 00	50,000 00
Reimbursement of marshals for expenses of taking Ninth Census	1,000 00	1,000 00
Maintenance and education of Helen and Heloise Lincoln	375 00	375 00
Total Permanent Appropriations under Interior Department	90,875 00	173,875 00
Total Permanent Appropriations under Executive Department	\$146,575,610 72	\$149,634,768 22
JUDICIAL.		
SUPREME COURT OF THE UNITED STATES.		
Salaries, justices, &c., Supreme Court	\$1,500 00	\$1,500 00
Total Permanent Appropriations under Judicial Department	1,500 00	1,500 00
Total Permanent Appropriations	\$146,629,910 76	\$149,689,068 26
Total Estimates for 1877, exclusive of Permanent Appropriations	\$167,982,697 72	\$143,477,109 31
Total Estimates for 1876, exclusive of Permanent Appropriations	163,357,218 13	145,021,048 23
Total Estimates for 1877, including Permanent Appropriations	\$314,612,608 48	\$293,166,177 57
Total Estimates for 1876, including Permanent Appropriations	310,030,769 89	292,880,278 99

TOTAL RECAPITULATION BY TITLES.

Objects.	Estimates for 1877.	Estimates for 1876.	Appropriations for 1876.
Legislative Establishment.....	\$2,865,378 50	\$2,963,342 10	\$2,963,562 10
Executive Establishment.....	18,717,045 40	18,549,048 03	19,034,265 76
Judicial Establishment.....	3,403,450 00	3,605,250 00	3,403,250 00
Foreign Intercourse.....	1,352,485 00	1,344,785 00	1,412,985 00
Military Establishment.....	33,697,178 50	31,641,526 50	28,554,987 79
Naval Establishment.....	20,871,666 40	19,096,567 65	17,316,306 90
Indian Affairs.....	5,787,795 64	6,851,681 96	5,125,627 00
Pensions.....	29,533,500 00	30,500,000 00	30,000,000 00
Public Works.....	28,591,410 30	26,299,469 31	16,755,062 10
Postal Service.....	9,281,602 19	9,914,378 00	8,376,205 00
Miscellaneous.....	13,881,185 79	12,591,169 58	10,534,857 66
Permanent Appropriations.....	146,629,910 76	146,673,551 76	149,689,068 26
Grand Totals.....	314,612,608 48	310,030,769 89	293,166,177 57

RECAPITULATION BY DEPARTMENTS.

Objects.	Estimates for 1877.	Appropriations for 1876.
CONGRESS.		
Salaries and expenses.....	\$2,865,378 50	\$2,963,562 10
Public printing, paper, binding, and lithographing.....	2,040,296 56	1,665,507 66
Court of Claims' judgments.....	2,000,000 00	400,000 00
Public works.....	52,800 04	3,550 00
Permanent appropriations.....		52,800 04
Total Congress.....	6,958,475 10	5,085,419 80
EXECUTIVE PROPER.		
Salaries and expenses.....	\$78,400 00	\$78,400 00
DEPARTMENT OF STATE.		
Salaries and expenses.....	\$247,110 00	\$267,550 00
Foreign intercourse.....	1,352,485 00	1,412,985 00
Permanent appropriations.....	1,500 00	1,500 00
Total Department of State.....	1,601,095 00	1,682,035 00
TREASURY DEPARTMENT.		
Salaries and expenses.....	\$3,529,940 50	\$3,530,336 50
Independent Treasury.....	440,880 00	445,880 00
Mints and assay offices.....	1,592,945 00	1,235,145 00
Territorial governments.....	302,765 50	351,441 40
Internal revenue.....	5,051,000 00	5,051,000 00
Treasury miscellaneous.....	1,600,479 40	2,357,813 40
Public works.....	6,152,846 86	5,938,325 92
Miscellaneous.....	6,554,175 00	6,416,350 00
Permanent appropriations.....	145,968,235 72	148,824,393 22
Total Treasury Department.....	171,193,267 98	174,150,685 44
WAR DEPARTMENT.		
Salaries and expenses.....	\$1,240,568 00	\$1,219,237 00
Military establishment.....	33,697,178 50	28,554,987 79
Public works.....	19,888,238 44	9,060,432 50
Miscellaneous.....	2,094,514 23	1,171,000 00
Permanent appropriations.....	510,000 00	625,000 00
Total War Department.....	57,430,499 17	40,630,657 29
NAVY DEPARTMENT.		
Salaries and expenses.....	\$163,760 00	\$161,240 00
Naval establishment.....	20,871,666 40	17,316,306 90
Public works.....	1,725,000 00	1,090,000 00
Miscellaneous.....	27,000 00	
Permanent appropriations.....	5,000 00	10,000 00
Total Navy Department.....	22,792,426 40	18,577,546 90
INTERIOR DEPARTMENT.		
Salaries and expenses.....	\$2,047,620 00	\$1,986,030 00
Public land offices.....	824,840 00	797,540 00
Interior miscellaneous.....	343,795 00	297,471 00
Indian affairs.....	5,787,795 64	5,125,627 00
Pensions.....	29,533,500 00	30,000,000 00
Public works.....	800,500 00	646,563 68
Miscellaneous.....	1,165,200 00	867,000 00
Permanent appropriations.....	90,875 00	173,875 00
Total Interior Department.....	40,594,125 64	39,894,106 68

Recapitulation by Departments—Continued.

Objects.	Estimates for 1877.	Appropriations for 1876.
POST OFFICE DEPARTMENT.		
Salaries and expenses	\$581,112 00	\$554,452 00
Postal service, deficiencies, and subsidies	9,281,602 19	8,376,205 00
Total Post Office Department	9,862,714 19	8,930,657 00
DEPARTMENT OF JUSTICE.		
Salaries and expenses	\$442,090 00	\$463,599 46
Salaries and expenses of courts	3,403,450 00	3,403,250 00
Public works	3,000 00	4,200 00
Miscellaneous		15,000 00
Permanent appropriations	1,500 00	1,500 00
Total Department of Justice	3,850,040 00	3,887,549 46
DEPARTMENT OF AGRICULTURE.		
Salaries and expenses	\$229,740 00	\$237,130 00
Public works	21,825 00	11,990 00
Total Department of Agriculture	251,565 00	249,120 00

TOTAL RECAPITULATION BY DEPARTMENTS.

Objects.	Estimates for 1877.	Estimates for 1876.	Appropriations for 1876.
Congress	\$6,958,475 10	\$6,659,137 97	\$5,085,419 80
Executive proper	78,400 00	78,400 00	78,400 00
Department of State	1,601,095 00	1,638,765 00	1,682,035 00
Treasury Department	171,193,267 98	171,066,214 31	174,150,685 44
War Department	57,430,499 17	52,588,049 00	40,630,657 29
Navy Department	22,792,426 40	21,086,627 65	18,577,546 90
Interior Department	40,594,125 64	42,068,285 96	39,894,106 68
Post Office Department	9,862,714 19	10,468,750 00	8,930,657 00
Department of Justice	3,850,040 00	4,100,260 00	3,887,549 46
Department of Agriculture	251,565 00	276,280 00	249,120 00
Grand totals	314,612,608 48	310,030,769 89	293,166,177 57

APPENDIX.

APPENDIX A.

1. The first of the following is a list of the names of the persons who have been appointed to the various offices of the Government of the United States.

2. The second of the following is a list of the names of the persons who have been appointed to the various offices of the Government of the United States.

APPENDIX B.

1. The first of the following is a list of the names of the persons who have been appointed to the various offices of the Government of the United States.

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APPENDIX.

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APPENDIX B.

APPENDIX

Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Population	1,000,000	1,100,000	1,200,000	1,300,000	1,400,000	1,500,000	1,600,000	1,700,000	1,800,000	1,900,000	2,000,000
Area	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Exports	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Imports	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Revenue	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Expenditure	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Surplus	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Deficit	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000
Balance	100,000	110,000	120,000	130,000	140,000	150,000	160,000	170,000	180,000	190,000	200,000

Year	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
Population	2,100,000	2,200,000	2,300,000	2,400,000	2,500,000	2,600,000	2,700,000	2,800,000	2,900,000	3,000,000	3,100,000	3,200,000	3,300,000	3,400,000	3,500,000	3,600,000	3,700,000	3,800,000	3,900,000	4,000,000
Area	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Exports	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Imports	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Revenue	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Expenditure	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Surplus	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Deficit	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000
Balance	210,000	220,000	230,000	240,000	250,000	260,000	270,000	280,000	290,000	300,000	310,000	320,000	330,000	340,000	350,000	360,000	370,000	380,000	390,000	400,000

APPENDIX.

APPENDIX A.

Explanation of the estimates for United States Mints and Assay Offices. (See pages 22 to 24.)

I have the honor to submit herewith estimates of appropriations required for the support of this office and the mints and assay offices of the United States for the fiscal year ending June 30, 1877.

Increased appropriations are asked for the mints at San Francisco, Carson, and Philadelphia, and for conducting an assay office at Helena, Montana.

MINT OF THE UNITED STATES AT SAN FRANCISCO.

At San Francisco the increase is due to the fact that an extensive refinery has been equipped in the new mint and refining operations resumed at that point by the United States. The law requires that a charge for the parting of bullion equal to the average expense of the operation shall be deducted from the depositors' bullion, and the proceeds arising therefrom covered, at least twice a year, into the Treasury of the United States; from which it will appear that, while the Treasury will be fully reimbursed for the expenses incurred in the parting operation, the amount realized from the charge cannot be used for defraying the expenses of the mint.

It is estimated that the mint at San Francisco will be called upon during the next fiscal year to part about 1,000,000 ounces of gold deposits, the gross value of which will be, say \$16,000,000, and not less than 8,000,000 ounces of silver bullion containing gold. The charges at the present rates would bring into the Treasury about \$240,000, which amounts to within \$44,200 of the increase estimated for. This balance of \$44,200 will be required on account of the largely increased coinage of both gold and silver.

MINT OF THE UNITED STATES AT CARSON.

At the mint in Carson the increase is rendered necessary by the increased operations in both refining and coining at that institution.

MINT OF THE UNITED STATES AT PHILADELPHIA.

At Philadelphia the increase of \$10,000, under the head of contingent expenses, is rendered necessary on account of the large coinage of subsidiary silver coin, which is manufactured chiefly from bullion produced from the Comstock lode, and which contains about 40 per cent. of gold, rendering parting necessary.

UNITED STATES ASSAY OFFICE AT HELENA, MONTANA.

As it is expected that the building for the assay office at Helena, Montana, will be completed and ready for the machinery during the present fiscal year, the item of \$15,000, submitted for "machinery and apparatus, and fitting up of same," should be made available immediately upon the passage of the act in which it is contained.

An estimate of \$21,500, for the purpose of conducting the melting and assaying of bullion deposits during the fiscal year 1877, has also been included in the estimates for the assay office at Helena, Montana.

I am, sir, very respectfully,

H. R. LINDERMAN, *Director.*

To the Honorable SECRETARY OF THE TREASURY.

APPENDIX B.

Explanation of estimates for the Government Hospital for the Insane. (See pages 50 and 136.)

CURRENT EXPENSES.

At the close of the fiscal year ending June 30, 1875, there were under treatment in the hospital 718 patients, 35 of whom paid a little more than the average cost of their support, leaving 683 who were supported wholly by the Government. At the date of the preparation of these estimates, September 30, 1875, there were 727 patients in the hospital, 31 of whom paid their board and 696 were supported by the United States, showing an increase of 13 of the latter or dependent class of patients in the first quarter of the current fiscal year. At this rate of increase of the dependent patients to the end of the year for which this estimate is made, the average number of patients to be provided for in that year would be 761. In the estimates for the current year (1875-'76) it is stated that 700 patients is "the extreme maximum capacity" of the hospital; and while the number under treatment has been at one time as high as 733, both the Board of Visitors and the Superintendent are of the opinion that it is entirely inadmissible, on sanitary grounds, to retain in the hospital much exceeding 725 patients of all classes, unless temporary wooden buildings should be provided while permanent structures are being erected, furnished, and fitted up; and estimating the average number of pay patients to be 35, there will remain an average of 690 to be provided for from the Treasury of the United States.

The average number of free or supported patients in the hospital, in the year 1874-'75, was 645 $\frac{3}{4}$ and of pay or self-supported patients 52 $\frac{5}{12}$, total average, 697 $\frac{8}{12}$. The average cost of supporting both classes was \$4 40 per week; and, deducting the whole amount received for the board and treatment of pay patients from the gross receipts of the hospital, the average cost per week of the board and treatment of the free patients was \$4 25 $\frac{1}{2}$.

The number of pay patients from whom something has been received, in excess of the cost per patient of supporting the entire household, has been reduced by the removal from the hospital of upwards of 20 transient indigent insane

persons that had been for several years supported by the authorities of the District of Columbia; and as, on that account, and on account of the crowded condition of the house, less is likely to be contributed in the near future than for some years past, by pay patients, towards the support of the establishment, the board estimates the average cost to the Government of supporting each dependent patient will be \$4 33 $\frac{1}{3}$ per week, at which rate it will cost to support an average of 690 patients of this class, for one year, the amount of this estimate, or \$155,895. This estimate is intended to be as close as is consistent with the management of the hospital in accordance with the just requirements of law; and the rate is less than that of last year—of any year, indeed, since 1860—on account of the large and increasing productiveness of the farm and garden and some reduction in the prices of supplies.

BUILDINGS AND GROUNDS.

The original hospital edifice was designed to accommodate a maximum of 350 patients, but, as that number has been exceeded, the ward buildings have been enlarged, from time to time, until there are now upwards of 700 patients under treatment, who, with the necessary officers and employes, make a community of upwards of 850, for whom meat, bread, light, washing, and drainage are to be provided. In the meantime, small additions only have been made to the original buildings and apparatus for furnishing those requisites of support and health; and the convenience and efficiency of these branches of the administrative service render the proposed enlargements necessary, as well as the introduction of such improvements into each as have come into use in the course of the last few years. The whole can be done upon the bases of the existing buildings and appliances, it is believed, for the moderate sum of this estimate.

The amount asked under this head will be required for the painting and repairs necessary to preserve the extensive buildings of the hospital on account of ordinary wear, for such repairs and additions to the furniture, bedding, fittings, and conveniences of the wards as are constantly necessary on account of the destructive habits of the class of patients treated in institutions of this character, and for such additional means and facilities for medical and moral treatment of the inmates as are suggested by experience and the constant progress of this branch of the healing art.

The original hospital edifice and two detached buildings erected prior to 1861 were designed to accommodate a maximum of 350 patients. Since the year 1870 several additions to the original buildings have been made, which together properly accommodate 213 patients. The hospital has, then, proper accommodations for 563 patients. At this time, September 30, 1875, there are 727 patients under treatment in the institution, or 164 in excess of its proper capacity, and there is a steady demand for increased accommodations. The ordinary but very serious evils of overcrowding an institution for the insane can no longer be wholly prevented, and the utmost vigilance is necessary to avert distressing accidents and endemic disease. This brief statement of the situation of the hospital is thought to demonstrate the imperative necessity of its enlargement in some manner. The question now arises, in what manner can the institution be permanently enlarged so as to best subserve the welfare of its inmates? The Board of Visitors and Superintendent have given this important question much consideration, and have no hesitation in strongly recommending the plan of enlargement contemplated by this estimate. Of the 727 patients under treatment on the 30th of September, 1875, 561 were men and 166 women, and as the number of men is so large and so much in excess of the women, they (the men) are strongly disposed to monopolize the grounds surrounding the present buildings and to contract the separate exercise grounds of the women to the smallest compass—a situation which renders necessary many restrictions of personal liberty that are more or less irritating to many individuals of both sexes, and would be wholly unnecessary if each sex occupied a separate building surrounded by its own ample grounds. It is, therefore, proposed to place the department for women on the farm of 175 acres lying on the east side of the public road, where there is an excellent site for the purpose, and relinquish the present buildings, surrounded by 185 acres, and having a water front for fishing, bathing, and boating, to the exclusive use of the men. Provision substantially the same as that here estimated for, for the treatment of insane persons of each sex in buildings and grounds entirely separate from those occupied by the other sex, has been made in the cities of Philadelphia and New York, and in the State of Michigan, and the conductors of those institutions bear the strongest testimony to the unqualified advantages of such separation.

I am, very respectfully,

C. H. NICHOLS, *Superintendent.*

To the Honorable SECRETARY OF THE INTERIOR.

APPENDIX C.

Explanation of the estimates for Columbia Institution for the Deaf and Dumb. (See pages 50 and 136.)

I have the honor to submit herewith estimates of appropriations required for the service of the fiscal year ending June 30, 1877, by the Columbia Institution for the Deaf and Dumb.

The first estimate, that for the current expenses of the Institution, is the same in amount as for several years past.

The second estimate, that for repairs on the buildings, will be much needed by the beginning of the coming fiscal year, and, as it is of the nature of a current expense, might be added to the first estimate, the two being included in one item of fifty thousand dollars.

The third estimate will provide for all the work that can conveniently be completed on the work of our building extension during the season of 1876, and will very nearly complete our buildings as originally planned in 1866; the amount expended being still far within the limit of the original estimates, as will be seen by reference to our last Annual Report.

In my last year's estimates I had the honor to ask an appropriation of four thousand dollars for the improvement and care of the grounds of the institution. This was very much needed for the service of the current fiscal year, but the appropriation was not made; I am therefore compelled to ask for the coming fiscal year an appropriation of ten thousand dollars. The need for this arises in large measure from the fact that during the summer now just passed, the grading of Boundary street, which forms the front line of our grounds, has been completed. In the prosecution of this work, the cuttings and fillings have been such as to make necessary the resetting of our front fence along its entire line.

Trusting that the estimates herewith submitted may seem reasonable, I have the honor to be, very respectfully, your obedient servant,

E. M. GALLAUDET,
President and Disbursing Agent.

To the Honorable SECRETARY OF THE INTERIOR.

APPENDIX D.

List of Consulates General, Consulates, and Commercial Agencies. (Estimated for on page 61.)

Consuls, &c.	Date of act.	References to Stats. at Large, or to Re- vised Statutes.			Salary.	Consuls, &c.	Date of act.	References to Stats. at Large, or to Re- vised Statutes.			Salary.
		Vol. or R. S.	Page.	Sec.				Vol. or R. S.	Page.	Sec.	
I. CONSULATES GENERAL.						II. CONSULATES.					
Schedule B.						Schedule B—Continued.					
Berlin	June 11, 1874	R. S. 18	296 67-69	1690 1	\$4,000 00	Hamilton	June 11, 1874 Mar. 3, 1875	R. S. 18	296 67-69 486	1690 1 1	\$2,000 00
Cairo	do				4,000 00	Hankow	do				3,500 00
Calcutta	do				5,000 00	Havre	do				3,000 00
Constantinople	do				3,000 00	Hong-Kong	do				4,000 00
Frankfort-on-the-Main	do				3,000 00	Honolulu	do				4,000 00
Havana	do				6,000 00	Jerusalem	do				1,500 00
Kanagawa	do				4,000 00	Kingston, Jamaica	do				2,000 00
London	do				6,000 00	Kingston, Canada	do				1,500 00
Melbourne	do				4,500 00	Laguayra	do				1,500 00
Mexico City	do				2,000 00	La Rochelle	do				1,500 00
Montreal	do				4,000 00	Leeds	do				2,000 00
Paris	do				6,000 00	Leghorn	do				1,500 00
Rio de Janeiro	do				6,000 00	Leipsic	do				2,000 00
Rome	do				3,000 00	Leith	do				2,000 00
Shanghai	do				5,000 00	Lisbon	do				2,000 00
St. Petersburg	do				2,000 00	Liverpool	do				6,000 00
Vienna	do				3,000 00	Lyons	do				2,500 00
II. CONSULATES.						Mahe	do				1,500 00
Schedule B.						Malaga	do				1,500 00
Acapulco	June 11, 1874 Mar. 3, 1875	R. S. 18	296 67-69 486	1690 1 1	2,000 00	Malta	do				1,500 00
Aix-la-Chapelle	do				2,000 00	Manchester	do				3,000 00
Algiers	do				1,500 00	Mannheim	do				1,500 00
Amoy	do				3,500 00	Marseilles	do				2,500 00
Amsterdam	do				1,500 00	Martinique	do				1,500 00
Antwerp	do				2,500 00	Matamoras	do				2,000 00
Aspinwall	do				3,000 00	Matanzas	do				3,000 00
Auckland	do				1,500 00	Mauritius, (Port Louis)	do				2,000 00
Bahia	do				1,500 00	Messina	do				1,500 00
Bangkok	do				3,000 00	Montevideo	do				2,000 00
Barbadoes	do				1,500 00	Munich	do				1,500 00
Barcelona	do				1,500 00	Nagasaki	do				3,000 00
Barmen	do				2,000 00	Nantes	do				1,500 00
Basle	do				2,000 00	Naples	do				1,500 00
Beirut	do				2,000 00	Nassau	do				2,000 00
Belfast	do				2,500 00	Newcastle	do				1,500 00
Bermuda	do				1,500 00	Nice, France	do				1,500 00
Birmingham	do				2,500 00	Ningpo	do				3,500 00
Bordeaux	do				2,500 00	Nuremberg	do				2,000 00
Bradford	do				3,000 00	Odessa	do				2,000 00
Bremen	do				2,500 00	Oporto	do				1,500 00
Bristol	do				1,500 00	Osacca	do				3,000 00
Brussels	do				2,500 00	Palermo	do				1,500 00
Buenos Ayres	do				3,000 00	Panama	do				3,000 00
Cadiz	do				1,500 00	Pernambuco	do				2,000 00
Callao	do				3,500 00	Pictou	do				1,500 00
Canton	do				3,500 00	Port Mahon	do				1,500 00
Cape Town	do				1,500 00	Port Said	do				1,500 00
Cardiff	do				2,000 00	Port Sarnia	do				1,500 00
Chemnitz	do				2,000 00	Port Stanley, F. I.	do				1,500 00
Chin-Kiang	do				3,500 00	Prague	do				2,000 00
Clifton	do				1,500 00	Prescott	do				1,500 00
Coaticook	do				2,000 00	Prince Edward's Island	do				1,500 00
Copenhagen	do				1,500 00	Quebec	do				1,500 00
Cork	do				2,000 00	Rotterdam	do				2,000 00
Demerara	do				3,000 00	San Domingo	do				1,500 00
Dresden	do				2,500 00	San Juan, Porto Rico	do				2,000 00
Dublin	do				2,000 00	Santiago de Cuba	do				2,500 00
Dundee	do				2,000 00	Sheffield	do				2,500 00
Fayal	do				1,500 00	Singapore	do				2,500 00
Florence	do				1,500 00	Smyrna	do				2,000 00
Foo-Chow	do				3,500 00	Sonneberg	do				2,000 00
Fort Erie	do				1,500 00	Southampton	do				2,000 00
Funchal	do				1,500 00	St. Helena	do				1,500 00
Geneva	do				1,500 00	St. John's, C. E.	do				1,500 00
Genoa	do				1,500 00	St. John's, N. B.	do				2,000 00
Gibraltar	do				1,500 00	Santa Cruz, W. I.	do				1,500 00
Glasgow	do				3,000 00	St. Thomas	do				2,500 00
Goderich	do				1,500 00	Stuttgart	do				1,500 00
Hakodadi	do				2,500 00	Swatow	do				3,500 00
Halifax	do				2,000 00	Tamatave	do				2,000 00
Hamburg	do				2,500 00	Tampico	do				1,500 00
						Tangier	do				3,000 00
						Toronto	do				2,000 00
						Trieste	do				2,000 00

List of Consulates General, Consulates, &c.—Continued.

Consuls, &c.	Date of act.	References to Stats. at Large, or to Re- vised Statutes.			Salary.	Consuls, &c.	Date of act.	References to Stats. at Large, or to Re- vised Statutes.			Salary.
		Vol. or R. S.	Page.	Sec.				Vol. or R. S.	Page.	Sec.	
II. CONSULATES.						III. CONSULATES.					
<i>Schedule B—Continued.</i>						<i>Schedule C—Continued.</i>					
Trinidad de Cuba	June 11, 1874	R. S. 18	296 67-69	1690 1	\$2,500 00	Guaymas	June 11, 1874	R. S. 18	296 67-69	1690 1	\$1,000 00
	Mar. 3, 1875	18	486	1							
Tripoli	do				3,000 00	Maranharn	do				1,000 00
Tunis	do				3,000 00	Milan	do				1,000 00
Tunstall	do				2,500 00	Omoa	do				1,000 00
Turk's Island	do				2,000 00	Para	do				1,000 00
Tien Tsin, China	do				3,500 00	Rio Grande	do				1,000 00
Valencia	do				1,500 00	Sabanilla	do				1,000 00
Valparaiso	do				3,000 00	Santiago, Cape Verde	do				1,000 00
Vera Cruz	do				3,000 00	Stettin	do				1,000 00
Verviers and Liege	do				1,500 00	Tahiti	do				1,000 00
Valdivostock, (formerly						Talcahuano	do				1,000 00
Amoor River)	do				2,000 00	Venice	do				1,000 00
Windsor, Canada	do				1,500 00	Windsor, Nova Scotia	do				1,000 00
Winnepeg, B. N. A.	do				1,500 00	Zanzibar	do				1,000 00
Zurich	do				2,000 00						
III. CONSULATES.						IV. COMMERCIAL AGENCIES.					
<i>Schedule C.</i>						<i>Schedule C.</i>					
Apia	June 11, 1874	R. S. 18	296 67-69	1690 1	1,000 00	Gaboon	June 11, 1874	R. S. 18	296 67-69	1690 1	1,000 00
Batavia	do				1,000 00	Lauthala	do				1,000 00
Bucharest	do				1,000 00	St. Paul Leanda	do				1,000 00
Cape Haytien	do				1,000 00						
Ceylon	do				1,000 00						
Cyprus	do				1,000 00						
Gaspe Basin	do				1,000 00						
Guayaquil	do				1,000 00						
						V. COMMERCIAL AGENCIES.					
						<i>Schedule B.</i>					
						San Juan del Norte	June 11, 1874	R. S. 18	296 67-69	1690 1	1,000 00

APPENDIX E.

Pay-Table of the United States Navy, under act of July 15, 1870. (See page 81.)

	When at sea.	On shore duty.	On leave or waiting orders.	Retired pay.	Date of act.	References to Stats. at Large, or to Re- vised Statutes.		
						Vol. or R. S.	Page.	Sec.
Admiral	\$13,000 00	\$13,000 00	\$13,000 00	\$6,500 00	July 15, 1870	R. S. 16	264 330	1556 3
Vice-admiral	9,000 00	8,000 00	6,000 00	4,500 00	do			
Rear-admiral	6,000 00	5,000 00	4,000 00	3,000 00	do			
Commodores	5,000 00	4,000 00	3,000 00	2,500 00	do			
Captains	4,500 00	3,500 00	2,800 00	2,250 00	do			
Commanders	3,500 00	3,000 00	2,300 00	1,750 00	do			
Lieutenant commanders	first 4 years 2,800 00	2,400 00	2,000 00		do			
	after 4 years 3,000 00	2,600 00	2,200 00	1,500 00	do			
Lieutenants	first 5 years 2,400 00	2,000 00	1,600 00		do			
	after 5 years 2,600 00	2,200 00	1,800 00	1,300 00	do			
Masters	first 5 years 1,800 00	1,500 00	1,200 00		do			
	after 5 years 2,000 00	1,700 00	1,400 00	1,000 00	do			
Ensigns	first 5 years 1,200 00	1,000 00	800 00		do			
	after 5 years 1,400 00	1,200 00	1,000 00	700 00	do			
Midshipmen, (after graduation)	1,000 00	800 00	600 00	500 00	do			
Cadet midshipmen	500 00	500 00	500 00		do			
Mates	900 00	700 00	500 00		do			
Fleet surgeons, paymasters, and engineers	4,400 00				do			
	first 5 years 2,800 00	2,400 00	2,000 00		do			
	second 5 years 3,200 00	2,800 00	2,400 00		do			
Surgeons, paymasters, and chief engineers	third 5 years 3,500 00	3,200 00	2,600 00		do			
	fourth 5 years 3,700 00	3,600 00	2,800 00		do			
	after 20 years 4,200 00	4,000 00	3,000 00	2,100 00	do			
Passed assistant surgeons, passed assistant paymasters, and first assistant engineers	first 5 years 2,000 00	1,800 00	1,500 00		do			
	after 5 years 2,200 00	2,000 00	1,700 00	1,100 00	do			
Assistant surgeons, assistant paymasters, and second assistant engineers	first 5 years 1,700 00	1,400 00	1,000 00		do			
	after 5 years 1,900 00	1,600 00	1,200 00	950 00	do			
Third assistant engineers				533 00	do			
	first 5 years 3,200 00	3,200 00	2,200 00		do			
	second 5 years 3,400 00	3,400 00	2,400 00		do			
Naval constructors	third 5 years 3,700 00	3,700 00	2,700 00		do			
	fourth 5 years 4,000 00	4,000 00	3,000 00		do			
	after 20 years 4,200 00	4,200 00	3,200 00	2,100 00	do			

Pay-Table of the United States Navy, &c.—Continued.

	When at sea.	On shore duty.	On leave or waiting orders.	Retired pay.	Date of act.	References to Stats. at Large, or to Revised Statutes.		
						Vol. or R. S.	Page.	Sec.
Assistant naval constructors	first 4 years	\$2,000 00	\$1,500 00		July 15, 1870	R. S. 16	264 330	1556 1558 3
	second 4 years	2,200 00	1,700 00		do.			
	after 8 years	2,600 00	1,900 00	\$1,300 00	do.			
Chaplains	first 5 years	\$2,500 00	2,000 00	1,600 00	do.			
	after 5 years	2,800 00	2,300 00	1,900 00	do.			
Professors of mathematics and civil engineers	first 5 years		2,400 00	1,500 00	do.			
	second 5 years		2,700 00	1,800 00	do.			
	third 5 years		3,000 00	2,100 00	do.			
	after 15 years		3,500 00	2,600 00	1,750 00	do.		
Boatswains, gunners, carpenters, and sail-makers	first 3 years	1,200 00	900 00	700 00	do.			
	second 3 years	1,300 00	1,000 00	800 00	do.			
	third 3 years	1,400 00	1,300 00	900 00	do.			
	fourth 3 years	1,600 00	1,300 00	1,000 00	do.			
	after 12 years	1,800 00	1,600 00	1,200 00	do.			
						Annual salary.	Date of act.	References to Stats. at Large, or to Revised Statutes.
								Vol. or R. S. Page. Sec.
Secretaries to admiral and vice-admiral				\$2,500 00	July 15, 1870	R. S. 16	264 332	1556 3
Secretaries to commanders of squadrons				2,000 00	do.			
Secretary of the Naval Academy				1,800 00	do.			
Clerks to commanders of squadrons and commanders of vessels				750 00	do.			
First clerks to commandants of navy yards				1,500 00	do.			
Second clerks to commandants of navy yards				1,200 00	do.			
Clerk to commandant of navy yard, Mare Island				1,800 00	do.			
Clerks to commandants of naval stations				1,500 00	do.			
Clerks to paymasters at navy yards, Boston, New York, Philadelphia, and Washington				1,600 00	do.			
Clerks to paymasters at navy yards, Kittery, Norfolk, and Pensacola				1,400 00	do.			
Clerk to paymaster at navy yard, Mare Island				1,800 00	do.			
Clerks to paymasters at other stations				1,300 00	do.			
Clerks to paymasters on receiving-ships, Boston, New York, and Philadelphia				1,600 00	do.			
Clerk to paymaster on receiving-ship, Mare Island				1,800 00	do.			
Clerks to paymasters on other receiving-ships, on vessels of the 1st rate, at the Naval Academy and at the Naval Asylum				1,300 00	do.			
Clerks to fleet paymasters and paymasters of vessels of the 2d rate				1,100 00	do.			
Clerks to paymasters of vessels of the 3d rate, and supply vessels and storeships				1,000 00	do.			
Clerks to inspectors in charge of provisions and clothing at navy yards, Boston, New York, Philadelphia, and Washington				1,600 00	do.			
Clerks to inspectors in like charge at other inspections				1,300 00	do.			

NOTE.—Most of the officers on the retired list receive pay at the rate of 75 per cent. instead of 50 per cent. as entered here. (Act March 3, 1873.)

APPENDIX F.

Recapitulation of estimates for Indian Service, as furnished by the Indian Office. (See pages 91 to 111.)

APPROPRIATED FOR THE YEAR ENDING JUNE 30, 1876.

Current expenses, salaries, &c	\$291,680 00
Fulfilling treaties with Indian tribes	3,263,974 92
General incidental expenses	356,000 00
Miscellaneous expenses, including subsistence, &c	1,111,500 00
Interest on non-paying stocks	97,148 00
	<u>5,120,302 92</u>

ESTIMATES FOR THE YEAR ENDING JUNE 30, 1877.

Current expenses, salaries, &c	\$336,820 00
Fulfilling treaties with Indian tribes	3,635,362 94
General incidental expenses	428,000 00
Miscellaneous expenses, including subsistence, &c	1,367,734 70
Interest on non-paying stocks	105,398 00
	<u>5,873,315 64</u>

AMOUNTS APPROPRIATED IN 1876 NOT EMBRACED IN ESTIMATE FOR 1877.

Dropped: Estimate for interest on two thousand three hundred and sixty-four dollars and eighty-six cents, "Fulfilling treaties with Kickapoos," the foregoing amount having been paid to said Indians.....	\$118 24
Dropped: Estimate, in part, for settlement, subsistence, and support of Kickapoos.....	10, 000 00
Dropped, per error in former estimates, "Fulfilling treaties with Creeks," for iron and steel for shops, act of August 7, 1856.....	100 00
Dropped by terms of treaty with Klamaths and Modocs.....	2, 000 00
Dropped by terms of treaty with Omahas.....	4, 200 00
Dropped: Estimate for interest due Osages on seven hundred and seventy-five thousand five hundred and and forty-three dollars and fifty cents, at five per centum per annum, (special estimate will be made for this item).....	38, 777 18
Dropped by terms of treaty with Shoshones and Bannocks.....	1, 000 00
Dropped by terms of treaty with Sioux of different tribes, &c.....	22, 000 00
Dropped by terms of agreement with Tabequache, Muache, Capote, and Utes.....	10, 000 00
Dropped: Estimate for interest due Winnebagoes, by reason of appropriation for land, act June 22, 1874..	2, 556 56
Dropped: Estimate, in part, for subsistence of Kansas Indians.....	10, 000 00
Dropped: Estimate for arrears of interest due Cherokee national fund.....	330 00
Dropped: Estimate for interest due Cherokee school fund.....	60 00
Dropped: Estimate for interest due Iowas.....	270 00
Dropped: Estimate for interest due Kaskaskias, Peorias, Weas, and Piankeshaws.....	450 00
Dropped: Estimate, in part, for settlement subsistence, and support of Modocs now residing within the Indian Territory.....	3, 000 00
	104, 861 98

AMOUNTS EMBRACED IN THE ESTIMATES FOR 1877 NOT APPROPRIATED IN 1876.

Increase of one clerk, class four, \$1,800; two clerks, class one, 2,400; and two laborers, \$1,440.....	\$5, 640 00
Increase for contingent expenses, office of Indian Affairs.....	2, 000 00
Increase for pay of special agents.....	1, 500 00
Increase for pay of interpreters.....	500 00
Increase for buildings at agencies and repairs.....	10, 000 00
Increase for vaccination of Indians.....	500 00
Presents and provisions for Indians, submitted.....	5, 000 00
Increase for contingencies, Indian Department.....	20, 000 00
Increase for transportation of goods, &c., to Apaches, Kiowas, and Comanches.....	6, 000 00
Increase for transportation of goods, &c., to Cheyennes and Arapahoes.....	5, 000 00
Increase for support and civilization of Chippewas of Lake Superior.....	5, 000 00
Increase, "Fulfilling treaty with Creeks," for assistance in agricultural operations.....	2, 000 00
Increase, "Fulfilling treaty with Crows," transportation.....	5, 000 00
Increase, "Fulfilling treaty with Flatheads," &c., transportation.....	500 00
Increase, "Fulfilling treaties with Miamies of Kansas".....	40 00
Increase, "Fulfilling treaties with Navajoes," transportation.....	2, 000 00
Increase, "Fulfilling treaties with Nez Percés," transportation.....	2, 500 00
Increase, "Fulfilling treaties with Northern Cheyennes and Arapahoes," transportation.....	1, 500 00
Increase, "Fulfilling treaties with confederated tribes and bands of Indians in Middle Oregon," in accordance with treaty stipulations.....	500 00
Increase, "Fulfilling treaty with Poncas".....	7, 500 00
Increase, "Fulfilling treaty with Shoshones and Bannocks".....	5, 000 00
Increase, "Fulfilling treaty with Sioux of different tribes," &c.....	404, 600 00
Increase, "Fulfilling treaty with Tabequache, Muache, Capote," &c.....	15, 000 00
Amount submitted for civilization of Indians.....	150, 000 00
Increase for settlement, subsistence, and support of Shoshones and Bannocks, and other bands in Idaho and Southeastern Oregon.....	10, 000 00
Increase for the civilization and subsistence of Indians on the Malheur reservation.....	35, 000 00
Increase for the civilization and subsistence of Indians of Central superintendency.....	15, 000 00
Amount submitted for civilization of the Chippewa Indians in Minnesota.....	25, 000 00
Increase for incidental expenses Indian service in California.....	15, 000 00
Increase for incidental expenses Indian service in Colorado.....	5, 000 00
Increase for incidental expenses Indian service in Montana.....	10, 000 00
Increase for incidental expenses Indian service in Oregon.....	15, 000 00
Increase for incidental expenses Indian service in Washington Territory.....	15, 000 00
Increase for incidental expenses Indian service in Central superintendency.....	2, 000 00
Amount submitted for incidental expenses Indian service in Indian Territory.....	4, 000 00
Amount submitted for incidental expenses Indian service in Minnesota.....	3, 000 00
Amount submitted for incidental expenses Indian service in Michigan.....	1, 000 00
Amount submitted for incidental expenses Indian service in Wisconsin.....	2, 000 00
Amount submitted for expenses of Indian delegations visiting Washington.....	10, 000 00
Increase for expenses of general council of Indians in Indian Territory.....	4, 000 00
Increase for transportation and delivery of annuities, &c., to Indians in Minnesota, Wisconsin, and Michigan.....	2, 000 00
Amount submitted for buildings at Colville agency, W. T.....	8, 800 00
Amount submitted for printing maps for Indian department.....	3, 000 00
Amount submitted to reimburse Osage Indians for losses sustained.....	5, 000 00

Amount submitted for payment to citizen class of Kaskaskia, Peoria, Wea, and Piankeshaw Indians	\$1,434 70
Increase for interest due "Chickasaw national fund"	4,680 00
Amount submitted for arrears of interest due "Chickasaw national fund," fiscal year 1875	4,680 00
	857,874 70
Amount of present estimates for 1877	\$5,873,315 64
Amount appropriated for 1876	5,120,302 92
Difference	753,012 72
Amount embraced in the present estimate not appropriated in 1876	\$857,874 70
Amount appropriated in 1876 not embraced in the present estimate	104,861 98
Agreeing with the difference between the amounts appropriated for 1876 and these estimates	753,012 72

APPENDIX G.

Explanations of the estimate for Building for State, War, and Navy Departments. (See page 134.)

OFFICE OF BUILDING FOR STATE, WAR, AND NAVY DEPARTMENTS,
Washington, D. C., July 16, 1875.

SIR: I have the honor to submit the following report of operations on the construction of the east wing of the building for the State, War, and Navy Departments.

The act of Congress making appropriations for the construction of this building, for the present year, is found in volume 18, part 3, page 391, of the United States Statutes at Large, and reads as follows:

"For completing south wing of the State, War, and Navy Departments, under the direction of the Secretary of State, fifty thousand dollars; and for continuing the work on the east wing of the building for State, War, and Navy Departments, seven hundred thousand dollars; to be expended under the direction of the Secretary of War," approved March 3, 1875.

On the 15th of March the Secretary of War called the attention of the Secretary of State to the second provision of said act, and requested to be furnished with copies of all papers, plans, and drawings relating to the construction of the east wing.

On the 23d of March the Secretary of State transmitted to the Secretary of War copies of all contracts that had been made for the construction of the east wing, with the information that the plans, drawings, and specifications, pertaining thereto, were in possession of the Supervising Architect of the Treasury Department.

On the 25th of March, at the instance of the Chief of Engineers, the Secretary of War appointed Col. Q. E. Babcock, Corps of Engineers, to take charge of the continuation of the work on the east wing.

On the 7th of April I enclosed a copy of my appointment to the Supervising Architect of the Treasury Department, with a request to furnish me with the drawings and an inventory of all property pertaining to the building.

On the 27th of April the Supervising Architect transmitted to me the drawings, together with inventories of tools and machinery at the granite quarries at Fox Island, Maine, and at the United States granite-works at Richmond, Virginia.

On the 1st of May I directed my assistant engineer to proceed to Richmond and to Fox Island, to inspect the Government property at each place and make a complete inventory thereof. As soon as he returned, I receipted for the property to the Supervising Architect, and made the necessary arrangements for commencing work.

When I assumed charge some progress had been made in the construction of the east wing. The foundations were laid, and the walls of the basement story were erected complete; iron beams and brick arches were in place for the basement and first floors. The court-yard walls of the first story were built, and the exterior walls of the east front of the first story had been commenced.

The work had been suspended during the past winter and spring, and the materials on hand were as follows, viz: One hundred and seventy-five thousand bricks, all the granite for the court-yard walls of the second, third, and attic stories, and a part of the granite for the exterior walls of the first story; also all the iron columns and pilasters for the entire wing, and sufficient wrought-iron beams for the second floor.

On the 20th of May the four large derricks that had been used in construction of the basement and first-story walls were raised 36 feet higher. The guy-ropes, anchors, and all other attachments pertaining thereto were thoroughly overhauled and repaired. The derricks were finally placed in safe working order by the 20th of June, when the setting of granite was commenced, together with the brickwork.

On the 14th instant the work was suspended on the east front for the want of granite, which, for the east front, comes from the Westham Granite Quarries near Richmond, Virginia. Work at these quarries was suspended during the winter; it was resumed shortly after the passage of the appropriation bill in March, and the stones necessary for completion of the walls of the first story are now quarried, and a part of them are cut and boxed, ready for shipment.

The granite required for the east front of the second story was ordered from the contractor on May 27. It is being quarried and cut, and good progress is being made, nearly 200 granite cutters being at work thereon.

The further progress of the construction of this building will depend, to a great extent, on the rapidity with which granite can be quarried and cut at the Richmond quarries.

The moneys available from the present appropriation are sufficient to furnish the materials and build the exterior walls of the first story, the exterior and court-yard walls of the second story, the brick arches for the second floor, the iron beams and brick arches for the third floor, and a large proportion of the cut granite for the third story.

The estimated cost of finishing the east wing amounts to \$1,378,428 44. This estimate is based on the cost of similar work in the south wing, and on the supposition that the interior of the east wing will be finished in a similar manner.

The estimate is as follows:

Granite-work	\$776,359 24	Painting	\$36,265 04
Brickwork	122,957 28	Mantels	7,500 00
Flagging	1,700 00	Heating apparatus....	35,718 88
Tiling	15,740 00	Grates	1,250 00
Concreting	10,925 00	Balusters.....	11,851 56
Iron-work	401,424 84	Elevators.....	15,500 00
Staircases	76,278 32	Contingencies.....	176,402 58
Carpenter-work	76,296 36		
Slating.....	9,372 00		1,940,428 44
Copper roof.....	14,030 27	Deduct amount of appropriation available.	562,000 00
Down-pipes.....	4,716 00		
Plastering.....	101,792 91	Amount required to finish east wing.....	1,378,428 44
Plumbing and gasfitting.....	37,164 53		
Glazing	7,183 63		

Of this amount, the sum of five hundred thousand dollars should be appropriated immediately after the meeting of Congress, in order that work at the quarries and cutting-sheds may be continued.

Last winter the work was suspended because the appropriation was exhausted, in consequence of which the construction of the building will be seriously delayed during the present season.

Very respectfully, your obedient servant,

O. E. BABCOCK,
Colonel of Engineers, U. S. A.

Hon. W. W. BELKNAP, *Secretary of War.*

APPENDIX H.

Explanation of estimates for Coast-Survey Service. (See pages 150 and 151.)

UNITED STATES COAST SURVEY OFFICE,
Washington, D. C., October 1, 1875.

SIR: I have the honor to submit herewith estimates for continuing the work of the Coast Survey and of the standard weights and measures during the year which will end June 30, 1877. The accompanying papers are—

1. Estimates for the work of the Coast Survey during the next fiscal year, preceded by a brief statement of progress made in the course of the fiscal year 1874-'75.
2. Estimates for new vessels required for the use of the Coast Survey, to supply the place of old vessels.
3. Estimates for continuing the construction of standard weights and measures.

In regard to the item marked 1, it has been found expedient, for economy of results, to include in estimates for work on the Atlantic, Gulf, and Pacific coasts of the United States amounts somewhat larger than the sums appropriated for the present fiscal year; but the estimates under those heads are below the revised estimates which were submitted last year.

In reference to the item marked 2, I would state that, last year, estimates were submitted for thirteen vessels. Appropriation was made for only six vessels; and estimates are now submitted for five vessels, for which there is pressing need in the service, nine of the old and worn-out vessels having been disposed of.

Very respectfully,

C. P. PATTERSON,
Superintendent United States Coast Survey.

Hon. B. H. BRISTOW, *Secretary of the Treasury.*

GENERAL STATEMENT OF PROGRESS IN THE COAST SURVEY FOR THE YEAR ENDING JUNE 30, 1875.

The following abstract shows the distribution, in the course of the fiscal year 1874-'75, of surveying parties along the Coast of the Atlantic and Gulf of Mexico, and on the Pacific Coast of the United States. Starting from the northeastern boundary, on the coast of Maine, the work done will be mentioned in geographical order in going southward towards the Rio Grande boundary, on the coast of Texas. On the Pacific coast, the recapitulation in this abstract will begin at San Diego, on the southern boundary of California, and will terminate with the mention of surveying operations on the coast of Alaska. In general, the same order, in respect of localities, will be observed in presenting my detailed estimates for continuing the work during the fiscal year 1876-'77.

My annual report for the year ending June 30, 1875, will give details, in respect of limits and statistics, of the work done in that year, under the following general heads, namely: Soundings in the Gulf of Maine; development of Jeffrey's Bank, Cashe's Ledge, and Jeffrey's Ledge, and of dangers to navigation near Isles of Shoals; survey of the northwestern part of Mount Desert Island, and soundings in the adjacent waters; topography of the shores, and hydrography of Egge-moggin Reach; survey of numerous islands near Isle au Haut, and in the eastern part of Penobscot Bay; and of the bay shore between Castine and Bucksport, Maine; soundings in Penobscot River, near Winterport; tidal observations at North Haven, on the Fox Islands, Penobscot entrance; determination of height and of coefficient of refraction near Camden, Maine, and of geographical points by triangulation in New Hampshire; tidal observations at Boston navy yard; hydrography westward of Monomoy Peninsula, including the vicinity of Chatham Roads; triangulation and topographical survey of Taunton River, Mass., from Fall River to Somerset; special observations on currents, and soundings in Providence Harbor and Seekonk River, for the use of Harbor Commissioners; survey of the shores of Thames River, Conn., and soundings between the United States naval-station and Norwich; topography of New Haven Harbor; determinations in position of Light-houses at the east entrance of Long Island Sound; hydrography in that vicinity, and special examination for sailing courses into the harbors between Point Judith and New York; survey of Port Jefferson and

soundings in the adjacent waters; triangulation near the boundary line between Massachusetts and New York; latitude and azimuth determined at Cheever Station, near Port Henry; at Mount Merino, near Hudson, N. Y.; and at Rouse's Point; shore-line survey and hydrography of Lake Champlain, extended from the "Four Brothers" southward to Whitehall, including detailed surveys of the vicinity of Crown Point and Ticonderoga; topography of the shores of Hackensack River, N. J.; angular measurements at Beacon Hill and Weasel Mount; preliminaries for determining points in New Jersey; observations for deducing transverse curves of velocity in the waters of Hudson River, East River, and the main channel of New York Harbor; tidal observations at that port; soundings in West Bank Channel and near Southwest Spit, in New York Bay; topography and hydrography of Great South Bay, L. I., between Islip and Howell's Point; survey of the west side and soundings through Barnegat Bay, N. J.; hydrography of the entrance and approaches to Little Egg Harbor; preliminaries for determining points in the eastern part of Pennsylvania; triangulation and soundings for light-house purposes in Delaware River, at Liston's Tree, and near the mouth of the Schuylkill River; magnetic declination, dip, and intensity determined at the standard station in Washington City, D. C.; special topographical survey of Craney Island, Va., and soundings in the channel between it and the main shore; tidal observations at Fortress Monroe; survey and hydrography of James River, from Sloop Point upwards to the vicinity of City Point; and of the Chickahominy, from Ship-yard upwards to Forge Bridge; primary triangulation extended southward along the Blue Ridge to Fork Mount; reconnaissance from that station westward to the Kanawha; triangulation of Pamlico Sound, N. C., completed and connected with the primary base line on Bodie's Island; survey of the shores extended from Juniper Bay northward and eastward to the Roanoke Marshes; hydrography of the sound extended from Shoal Point southward, including Yesocking Bay; detailed survey of the coast of South Carolina, and soundings through the water passages between Cape Romain and Sullivan's Island; preliminaries for tracing the altered shore line at Hunting Island, S. C.; hydrography of Savannah River from the bar upward to the head of Elba Island; hydrography of the coast of Florida north and south of St. Augustine; survey and sounding of the inland sea-water channels south of Mosquito Inlet, including the head of Indian River; detailed survey of the Tortugas Islands, and hydrography of the Harbor and Reef; triangulation and topography of Tampa Bay, and hydrography of the bar and approaches; tidal observations continued at St. Thomas, West Indies; topography and hydrography of the western coast of Florida, between Pepper Keys and Ocilla River; hydrography of the vicinity of Cape San Blas and of St. Joseph's Bay; triangulation and reconnaissance westward and northward of the base-line near Atlanta, Ga.; latitude, azimuth, and magnetic elements determined at primary stations in that vicinity; preliminaries for determining points in the State of Kentucky; special shore-line survey and hydrography of the mouths of the Mississippi; observations on density and relative to the volume of water discharge; the bar and approaches to the Delta sounded, and deep-sea lines of soundings run in the Gulf of Mexico; topography of the Mississippi River above New Orleans; triangulation in Missouri extended westward from St. Louis to the vicinity of Gasconade River; reconnaissance for intervisible stations near the Ohio River; measurement of base-line at Spring Green, Wis., preliminary to the determination of points in Wisconsin; and hydrography completed in San Antonio, Musquit, and Aransas Bays, Texas. On the Pacific Coast, a detailed survey of the coast of California and development of the approaches and channels of Newport Bay, near Point Lasuen; topography of Santa Cruz Island, and hydrography of its vicinity; triangulation across the Santa Barbara Channel, from Gaviota Pass; hydrography of San Louis Obispo Bay, and development of dangers to navigation near Point San Luis; special topographical survey of Point Sur, for the Light-house Board; tides and currents observed in San Francisco Bay; soundings between Yerba Buena and Oakland, and abreast of Sancelito; development of a shoal off the South Farallon; buoyage of Noonday Rock; in-shore soundings completed between Cape Mendocino and Rocky Point; reconnaissance for intervisible stations from the Pacific Coast, across the Sierra Nevada mountains, to the vicinity of Austin, Nevada; triangulation and topography north and south of Ten-mile River, Cal., completing the detail survey between Point Cabrillo and Shelter Cove; discovery and determination, in position, of a dangerous rock in the passage used by coasters between Blunt's Reef and Cape Mendocino; triangulation of the coast between Rocky Point and Klamath River, including the vicinity of Redding's Rock; in-shore soundings extended along the coast of California from False Klamath northward to Mack's Arch on the coast of Oregon; reconnaissance of the summit and region of Mount Shasta as a point for triangulation; topography of the shores of Columbia River, Oregon, extended from Oak Point to Smith's Island; tidal observations at Astoria; triangulation and topography of the coast from Point Adams south towards Nehalem River; detailed survey of the eastern shores of Duwamish Bay, W. T., including the town of Seattle and part of Lake Union; tidal observations at Port Townsend, W. T.; surveys of harbors on the coast of Alaska, with determinations of latitude, azimuth, the magnetic elements, and observations for correcting errors in geographical positions as now appear on charts, and for the height of Mount Crillon, Mount Fairweather, Mount St. Elias, and other prominent landmarks on the coast of Alaska.

Progress in office-work has been kept up to that of the field-work of the preceding season; computations of the current geodetic, trigonometrical, and tidal observations have been duly made, including the preparation of records and results for publication; tide tables for the principal ports of the United States for the year 1876 have been published; the drawing of fifty-four charts has been in progress, and of this number sixteen have been completed; twenty-nine sketches of harbors on the coast of Alaska have been drawn for publication by lithography; eleven new copperplate charts have been begun, thirty-eight have received additions by engraving, and eleven have been completed; an aggregate of fourteen thousand copies of charts has been issued in the course of the year; the first volume of the Coast Pilot for the Atlantic Coast, giving sailing directions for harbors between Eastport and Boston, has been published, and a second edition, illustrated by charts, is in preparation; the second volume, comprising the coast from Boston to New York, is well advanced towards publication.

The estimates for continuing the survey of the Atlantic and Gulf Coasts of the United States are intended to provide for the following progress:

Field-Work.—To continue the topography of the western shores and islands of Passamaquoddy Bay and its estuaries, of the coast and eastward of Penobscot Bay towards Narraguagus Bay; to finish work on the islands and shores of Penobscot Bay and River; to continue the determination of heights at some of the principal trigonometrical points between Boston and the St. Croix; and of coefficients of refraction; to complete the hydrography of Penobscot Bay and River, and continue soundings in the coast approaches eastward of Penobscot Bay; to continue a topographical and hydrographic survey of Portsmouth Harbor; to make such additional triangulation as may be requisite for that and other surveys on the eastern coast, and determine the position of new light-houses between Eastport, Maine, and New York; to continue soundings along the coast of Maine, and other off-shore hydrography between Cape Cod and Manan, and make special examination for the sailing lines for charts; to continue tidal observations, and to make such astronomical and

magnetic observations as may be required; to continue such topographical and hydrographic resurveys of the coast between Cape Cod and New York as may be found necessary; to continue the survey of the Connecticut River from its mouth to Hartford; to make such examinations as may be required in New York Harbor, and such surveys in its vicinity as may be found necessary; to make, at this port, observations on tides and currents; to extend the plane-table survey of the Hudson River above Haverstraw; to continue the triangulation between the Hudson River and Lake Champlain; to make the requisite astronomical observations; to continue the topographical and hydrographic survey of the coast of New Jersey, and the resurvey of the hydrography of Delaware Bay and River; to connect the Atlantic triangulation with that of Chesapeake Bay, near the boundary line between Maryland and Virginia; to complete the detailed resurvey of the James River, Virginia, including the hydrography, and continue the plane-table survey of the Potomac River; to continue southward the main triangulation along the Blue Ridge, parallel with the coast, including astronomical and magnetic observations; to continue the supplementary hydrography between Cape Henlopen, Delaware, and Cape Henry, Virginia, and in Chesapeake Bay, and also the tidal observations; to measure a base-line of verification and determine azimuth for the coast triangulation south of Cape Lookout; to make the astronomical and magnetic observations requisite; to continue the off-shore hydrography between Cape Henry and Cape Fear; to complete the hydrography of Pamlico Sound and its rivers, and that of Core and Bogue Sounds, and sound the entrance to Cape Fear River; to extend northward the primary triangulation along the eastern and southern slopes of the Alleghanies in North Carolina and Alabama; to continue the topographical and hydrographic survey of the rivers on the coast of South Carolina and Georgia; to determine azimuth for the triangulation of the coast of South Carolina and Georgia; to continue the detailed survey of the sea islands and water passages between Charleston and Savannah, and to make tidal observations; to make a hydrographic resurvey of Georgetown (S. C.) Harbor and approaches, and continue the off-shore hydrography between Cape Fear, N. C., and the St. John's River, Florida; to continue, southward from Cape Canaveral, the triangulation, topography, and hydrography of the eastern coast of Florida, including Indian River; to continue the triangulation, topography, and hydrography of St. John's River; to make the requisite astronomical observations; to continue the hydrography off the eastern coast of Florida from Mosquito Inlet to the southward; to continue soundings, and observations for sea temperatures, in such parts of the Gulf stream as may be deemed advisable, between the west end of Cuba and Nova Scotia, and dredging along the coast within the same limits, in conjunction with the United States Commission on Fish and Fisheries; to continue the astronomical and magnetic observations requisite between Cape Florida and Pensacola; to continue the triangulation, topography, and hydrography of the western coast of Florida, south of Tampa Bay, and to the southward of Charlotte Harbor; of the coast of the peninsula between Tampa Bay and Cedar Keys, and between Apalachee Bay and Pensacola; to run lines of soundings and make observations of sea temperatures in the Gulf of Mexico, and develop the hydrography of the Gulf coast included in the field operations; to connect the trigonometrical survey of the Mississippi River, at New Orleans, with that of Lake Borgne and Lake Pontchartrain, and continue the trigonometrical, topographical, and hydrographic survey of Lakes Pontchartrain and Maurepas, and of the Mississippi River above Carrollton, La.; to determine geographical positions, and make the astronomical and magnetic observations required; to extend the triangulation, topography, and hydrography of Louisiana westward of the Mississippi delta, and continue the hydrography of the Gulf of Mexico between the mouth of the Mississippi and Galveston, Texas; to continue the triangulation, topography, and hydrography of the coast of Texas westward between Sabine Pass and Galveston and between Corpus Christi and the Rio Grande; to measure a base-line of verification and make the astronomical and magnetic observations requisite between Sabine Pass and the Rio Grande; to continue the hydrography of the approaches to the coast of Texas; to continue the determination of the positions of new light-houses and life-saving stations along the coast between New York and the Rio Grande; to continue the field-work for the description and verification of the work for the Coast Pilot; and to continue the organized system of magnetic observations required for a complete magnetic survey.

Office Work.—To compute results from the field operations made along the Atlantic and Gulf Coasts, including astronomical, geodetic, geographical, magnetic, and tidal-work; to continue the reproduction of the original topographical maps, and to plot the hydrographic charts; to continue the drawing of the general chart of the coast from Quoddy Head to Cape Cod, and of charts Nos. 1 and 2, showing the coast of Maine, between St. Croix River and Petit Manan Light-house; to continue drawing and engraving of chart No. 3, which includes Frenchman's Bay, Mt. Desert Island, Blue Hill Bay, Isle au Haut Bay, and their approaches, also local charts of Mt. Desert Island, Eggemoggin Reach, Penobscot Bay, of east, and to draw and engrave the chart of Lake Champlain; to continue the drawing and engraving of charts of Thames River, and of Connecticut River, to the head of navigation; to complete the engraving of chart No. 7, from Seguin Island to Kennebunkport, and to draw and engrave the resurvey of the entrance to Nantucket Sound, including Monomoy Shoals; to draw and engrave the resurvey of the eastern entrance to Long Island Sound, and to continue a new chart of Long Island Sound; to complete the engraving of chart No. 21, showing the coast between Sandy Hook and Barnegat Inlet; to continue the drawing and engraving of No. 22 and No. 23, between Barnegat and Cape May; to make additions to the charts and sketches between New York and Cape Henry; to continue the drawing and engraving of a new chart of Delaware Bay and River, and to complete that of James River; to continue the drawing and engraving of the general chart of the coast between Cape Henry and Cape Lookout; and of charts No. 37, No. 39, No. 42, No. 43, No. 44, No. 45, No. 46, and No. 47, showing parts of the Atlantic Coast between Cape Henry and Lookout, including Pamlico Sound; to continue engraving the general chart of the coast between Cape Hatteras and Cape Romain, and to continue the drawing and engraving of that of the coast between Cape Romain and the St. Mary's River, and of charts No. 51 and No. 52, between Cape Fear and Winyah Bay; to continue the drawing and engraving of a new chart of Georgetown Harbor, S. C., and to make additions to the charts between Cape Henry and the St. Mary's River; to continue the drawing and engraving of the general chart of the coast from St. Mary's River to Cape Canaveral, and of charts No. 59 and No. 60, from St. Augustine to Cape Canaveral, and to make additions to the charts of the coast between St. Mary's River and Cape Florida; to continue the drawing and engraving of charts No. 80, No. 81, No. 82, No. 83, No. 84, No. 85, No. 86, and No. 87, showing the Gulf Coast between Chassahowitska River and Pensacola entrance, and of the charts of Tampa Bay; to engrave the chart of St. Joseph's Bay, and the chart of St. Andrew's Bay; to complete the drawing and engraving of charts No. 91, No. 92, No. 93, No. 94, and No. 95, showing Lake Borgne, part of Lake Pontchartrain, Isle au Breton Sound, and the Mississippi River, between New Orleans and the Gulf of Mexico, and the general chart showing the sea approaches to the Mississippi River; to continue the drawing and engraving of the general chart of the coast of Louisiana and Texas, from Atchafalaya Bay to Galveston; to continue the drawing and engraving of that between Galveston and the Rio Grande, and of charts No. 109 and No. 110, showing Aransas Bay, Copano Bay, and Corpus Christi Bay; for material for drawing, engraving, map printing, for electrotyping, photographing, for instruments and apparatus. Total for the Atlantic and Gulf Coast, involving work on the coast of the following States, viz: Maine, New Hampshire, Vermont, Massachusetts,

Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Texas, will require \$380,000.

The estimates for continuing the survey of the Pacific Coast of the United States are intended to provide for the following progress:

Field-Work.—To make the requisite observations for latitude, longitude, azimuth, and the magnetic elements at stations along the Pacific Coast of the United States; to continue off-shore soundings on the coast of California, Oregon, Washington Territory, and tidal observations at San Francisco, Astoria, Port Townsend, and such other localities as may be necessary; to continue the main-coast triangulation from Monterey Bay to the southward, or from Point Conception to the northward, from San Pedro toward San Diego, including the islands off that part of the coast; to continue reconnaissance for the main triangulation upon the mainland from Point Conception to San Diego, from Russian River to the northward, from Columbia River north to Puget Sound, or south up the Willamette Valley; to continue the reconnaissance for, and commence the primary triangulation through, the Sacramento and San Joachin Valleys; to continue the coast triangulation and topography from Newport, Los Angeles county, towards San Diego, and that of the islands off that coast; to continue the tertiary triangulation and topography of the coast north of Point Conception toward Point Sal, or the tertiary triangulation and topography from Point Buchon towards San Simeon; to continue the hydrography between San Diego and Point Conception, between Point Conception and Monterey Bay; develop the hydrographic changes in San Francisco Bay and its approaches; extend hydrography between Cape Mendocino and the Klamath River; between Cape Sebastian and Port Orford, north and south of, and in the approaches to, the Columbia River; to continue the hydrography of Puget Sound and adjacent waters; to observe currents along the coast, and take soundings and temperature observations in the California branch of the Kuro Siwo current, and execute such other hydrographic work as local demands may require; to continue tidal and current observations at the Golden Gate, and observations on the ocean currents along the coast of California; to continue the triangulation and topography of the coast between Bodega Bay and Point Arena; between Cape Sebastian and Port Orford; to continue the triangulation, topography, and hydrography of the Columbia River; to complete the detailed survey between Cape Sebastian and Crescent City, and off-shore hydrography at Crescent City Reef; to measure a base-line and continue the triangulation of the Strait of Fuca and the triangulation and topography of Puget Sound and adjacent waters; to continue the reconnaissance of the coasts and islands of Alaska, with observations for tides and currents; and to make the requisite astronomical and magnetic observations; to continue the field-work, for the description of the coast and verification of the Coast Pilot, of the coasts of California, Oregon, and Washington Territory; and to continue the organized system of magnetic observations required for a complete magnetic survey.

Office-Work.—To make the computation from the observations made in the field, including astronomical, geodetic, geographical, magnetic, and tidal observations; to continue the reproduction of the original topographical maps, and to plot the hydrographic charts; to draw and engrave the additions on the general chart of the Pacific Coast of the United States; to continue the drawing and engraving of the charts of the coast from San Diego to Point Conception, No. 1, No. 2, and No. 3; to complete the engraving of a new chart of San Francisco entrance and Harbor, from resurveys; to continue the drawing and engraving of charts of the coast from Point Arena to Cape Mendocino, No. 8, of that from Cape Mendocino to St. George's Reef, No. 9, and of that from St. George's Reef to the Umpquah River, No. 10, Shoalwater Bay, Puget, and Washington Sounds; to continue the drawing and engraving of the chart of Columbia River and of the local harbor charts of the coast, with those of the northwestern coast. Total for the Pacific Coast, involving work on the coasts of the States of California and Oregon, and Washington Territory in Alaska, will require \$245,000.

For extending the triangulation of the coast survey to form a connection between the systems of triangulation along the Atlantic and Gulf and Pacific Coasts of the United States, and assisting in the State surveys, involving work in New Hampshire, Vermont, Connecticut, New York, Pennsylvania, New Jersey, Virginia, West Virginia, North Carolina, Alabama, Missouri, Illinois, Wisconsin, Kentucky, Kansas, California, Nevada, and Utah Territory, will require \$90,000.

For repairs and maintenance of the complement of vessels used in the Coast Survey will require \$50,000.

For continuing the publication of the observations made in the progress of the Coast Survey will require \$8,000.

For general expenses of all the work, rent, fuel, for transportation of instruments, maps and charts, for miscellaneous office expenses, and for the purchase of new instruments, books, maps, and charts, will require \$34,600.

The annexed table shows, in parallel columns, the estimates for the fiscal year 1875-'76, and the estimates herein submitted for the fiscal year 1876-'77:

Objects.	Estimated for 1875-'76.	Estimated for 1876-'77.
For continuing the survey of the Atlantic and Gulf coasts of the United States, including compensation of civilians engaged in the work, and pay and rations of engineers for steamers used in the coast survey, per acts of March 3, 1843, and June 12, 1858	\$400,000 00	\$380,000 00
For continuing the survey of the western coast of the United States, including compensation of civilians engaged in the work, and pay and rations of engineers for the steamers used in the work, per act of September 30, 1850	260,000 00	245,000 00
For extending the triangulation to join the survey of the Atlantic and Pacific coasts of the United States, and assisting in the State surveys, including compensation of civilians engaged in the work, per act of March 3, 1871	70,000 00	90,000 00
For repairs and maintenance of the complement of vessels used in the coast survey, per act of August 18, 1856	50,000 00	50,000 00
For continuing the publication of observations made in the progress of the coast survey, including compensation of civilians engaged in the work, the publication to be made at the Government Printing Office, per act of March 3, 1869	8,000 00	8,000 00
For general expenses of all the work, viz: Rent, fuel, transportation of instruments, maps, and charts, for miscellaneous office expenses, and for the purchase of new instruments, books, maps, and charts	37,000 00	34,600 00
Total	825,000 00	807,600 00

Respectfully submitted.

C. P. PATTERSON,
Superintendent United States Coast Survey.

Hon. B. H. BRISTOW, *Secretary of the Treasury.*

APPENDIX I.

Explanation of the estimate for refunding to States expenses incurred in raising volunteers. (See page 153.)

TREASURY DEPARTMENT,
Third Auditor's Office, Washington, D. C., August 6, 1875.

SIR: I have the honor to acknowledge receipt of your letter of 2d instant, asking what amount will probably be required to meet claims settled in this office during the fiscal year ending June 30, 1877, payable from the appropriation "*Refunding to States expenses incurred in raising Volunteers*;" and, in reply, have to state that the probable amount required will be three hundred thousand dollars, (\$300,000.)*

Very respectfully,

A. M. GANGEWER,
Acting Auditor.

To the Honorable SECRETARY OF WAR.

APPENDIX J.

Explanations of the estimate for support of the Leavenworth Military Prison, Fort Leavenworth, Kansas. (See page 153.)

WAR DEPARTMENT,
Adjutant General's Office, Washington, September 3, 1875.

SIR: In submitting the accompanying estimate for the support of the Leavenworth Military Prison, for the fiscal year ending June 30, 1877, I have the honor to state, no appropriation has ever been made for this purpose, the amounts heretofore appropriated being confined by law exclusively to the erection or alteration of buildings for the prison. The expenses for maintaining military prisoners, which are regular and continuous, will not, it is believed, be increased in the aggregate by an appropriation of the amount asked for.

The establishment of the prison for the confinement of military prisoners will almost entirely relieve the State penitentiaries, where it is deemed illegal to confine men for mere military offences, and the expenses, for which a special appropriation has been made annually, for keeping that class of prisoners in State institutions will be very small, and the estimate therefor may now be very much reduced.

Heretofore, before the prisoners at the military posts were collected at the Leavenworth Military Prison, their clothing, subsistence, &c., were drawn from Army supplies, and the expenses there were quite at the maximum, because very little, if any, of the labor performed could be regarded as offsetting the cost of keeping.

At the prison, the corresponding expenses will be much less, as the profit derived from the prisoner's labor will be applied toward his maintenance, and will soon, no doubt, wholly provide for it.

The progress which might have been made toward making the prison selfsustaining, has been retarded for want of funds to set workshops in motion, and having no appropriate employment for the prisoners, who cannot be worked to advantage in connection with the erection and alteration of buildings for the prison, they have been set to work about the military post of Fort Leavenworth. The estimate for tools and material for the shops is less than would be required were it expected to rely entirely on appropriation from Congress for that purpose. The receipts from sale of manufactured articles will, if afforded this aid to start with, not only supply any deficiency in this respect, but will pay to some extent the general expenses of the prison.

Estimate is made for supplying each man on his discharge from the prison with one suit of clothes, and five (5) dollars in money, which is a usual allowance at State institutions. It is intended that men confined in this prison shall serve fully up to the requirements of their sentences, but the aim will be to teach and reform as well as punish them, and a system of discipline will be maintained, and a course of instruction in useful occupations adopted, which will tend to elevate them and make them respectable citizens, and the wisdom of supplying these men with a neat substantial suit of clothing, at an expense for material only, for the garments will be made in the prison tailor-shops, and this small sum of money which is absolutely necessary to enable them to get away from the military reservation in search of employment, instead of turning them out in their prison garb, and with no means, cannot be doubted.

A copy of the letter from the commanding officer of the prison, transmitting the estimate, is also respectfully submitted herewith.

Very respectfully, your obedient servant,

E. D. TOWNSEND,
Adjutant General.

To the Honorable SECRETARY OF WAR.

HEADQUARTERS U. S. MILITARY PRISON,
Fort Leavenworth, Kansas, August 28, 1875.

To the ADJUTANT GENERAL, Washington, D. C.,
Through Headquarters Department of the Missouri.

SIR: I have the honor to enclose herewith estimates for the support of the United States military prison at Fort Leavenworth, Kansas, for the year ending June 30, 1877.

Having no data upon which I can base an opinion or make any estimate of the probable earnings of the prisoners, I have taken no account of them, but have based my estimate for clothing on the average of what has been worn out, and at the prices furnished me by the acting quartermaster general. The estimate may seem large, but if the clothing is furnished, as it has mostly been since the prison started, from old moth-eaten and rotten articles left over from the war, and condemned as unfit for issue to the troops, it will require it all, but it should be furnished the prison at the prices that

* Reduced by the Secretary of War to \$250,000.

it will bring in market, which would reduce the estimate more than one-half, making it about nine thousand, (\$9,000,) against eighteen thousand four hundred and seventy-five dollars (\$18,475) as estimated for, as directed to do by a telegram, of which the following is a copy:

WAR DEPARTMENT,
Quartermaster General's Office, Washington, D. C., August 14, 1875.

Capt. A. P. BLUNT, A. Q. M. U. S. Army,
Fort Leavenworth, Kansas.

Jackets, all sizes; coats, sizes one, two, and three; sack coats, lined and unlined—size one can be supplied at prices fixed by General Orders No. 75, War Department, 1871.

By order of the Acting Quartermaster General:

Very respectfully, your obedient servant,

J. D. BINGHAM,
Deputy Quartermaster General United States Army.

To clothe the prisoners in Government clothing it will cost an average of forty-five dollars and seventy-two cents' \$45 72.) To purchase material and manufacture at the prison it will average about thirty-five dollars, (\$35,) making a saving of ten dollars and seventy-two cents (\$10 72) per man. The latter estimated upon what it cost to clothe each military prisoner at the Kansas State penitentiary the past year.

The subsistence is estimated at a soldier's ration per man, and I have no means of making any calculation how far this can be reduced until I find how much ground will be allowed me for use as a farm. I arrived here too late in the spring to get ground, or to do any early gardening, but General Pope allowed me the use of an uncultivated strip along the bank of the Missouri River, which we planted, and shall raise about one hundred and fifty bushels of potatoes, eight hundred bushels of turnips, one thousand cabbages, two hundred dozen ears of green corn, three wagon-loads of pumpkins, fifteen bushels of string beans, two barrels of cucumber pickles, fifteen bushels of shelled corn, and one hundred bushels of sweet potatoes. Upon my arrival here in May I found the company fund in debt over five hundred dollars for mess furniture, &c., which debt I have not been able fully to pay as yet; and not being authorized to use money from the appropriation for that purpose, I have not been able to purchase any live stock until within the last few days, when I got seven pigs. If I had money to purchase I could easily feed at least one hundred and fifty full-grown hogs on the slops and garbage from the prison and post, and raise corn enough the next year to fatten them—thereby making a great saving of the rations at hardly any expense. For clothing and money furnished discharged prisoners, the estimate has been purposely made small, as should there be more than two hundred men discharged we shall have earned enough in the shops to make up the deficiency. As to material for workshops, we have only estimated for enough to fairly start, as in a short time we hope to be able to purchase all we require from our earnings. Owing to the large amount of labor required to alter the buildings for the prison, and to work for the depot quartermaster as mechanics and laborers, we have been unable to make anything for sale in our workshops, and shall not be able to do much profitable work until we can procure the proper machinery and tools.

Very respectfully,

J. M. ROBERTSON,
Major Third U. S. Artillery, Bvt. Brig. Gen. U. S. A., Commanding.

Official copy:

E. D. TOWNSEND,
Adjutant General.

W. D., A. G. O., September 3, 1875.

APPENDIX K.

Explanation of the estimate for the National Home for Disabled Volunteer Soldiers. (See page 154.)

THE NATIONAL HOME FOR DISABLED VOLUNTEER SOLDIERS,
Washington, D. C., July 30, 1875.

SIR: In pursuance of the act of Congress approved March 3, 1875, requiring the Managers of the National Home for Disabled Volunteer Soldiers to furnish to the Secretary of War estimates in detail for the support of the Home for the fiscal year commencing on the first of July next, I have the honor to forward the enclosed certificate in due form, from the minutes of the Board of Managers at their meeting in July, which we believe is a compliance with the statute.

Our estimates in detail as we have them made to us would go to each pound of nails, and each broom, light of glass, and pound of coal used in the establishment. These would be so bulky that you would hardly include them in your report to Congress, and they can be furnished to the Committee on Appropriations by the Board of Managers if required. If in your judgment those details should be furnished, please inform me and they will be sent on before the meeting of Congress.

I have the honor to be, very respectfully, yours,

BENJ. F. BUTLER.

To the Honorable SECRETARY OF WAR.

At a regular quarterly meeting of the Board of Managers of the National Home for Disabled Volunteer Soldiers, held at the Eastern Branch of said Home, near Augusta, Maine, on the twelfth day of July, A. D. 1875, the following, among other proceedings, were had:

The President called the attention of the Board to the provisions of an act of Congress approved March 3, 1875, requiring the Managers to furnish to the Secretary of War estimates in detail for the support of the Home for the fiscal year commencing on the first of July next, and thereupon the Managers proceeded to said work, and after a careful exami-

nation of the quarterly estimates and expenditures of the several Homes, and consideration of the whole matter, made the following estimates for the support of the Home for the fiscal year commencing July 1, 1876, which the President of the Board was directed to transmit to the Secretary of War:

For current expenses, including repairs, of the Central Branch.....	\$476,877 71
For current expenses, including repairs, of the Eastern Branch.....	137,634 47
For current expenses, including repairs, of the Northwestern Branch.....	139,070 88
For current expenses, including repairs, of the Southern Branch.....	115,150 38
For out-door relief and incidental expenses	30,000 00
Total required for the support of the Home for the year.....	<u>\$898,733 44</u>

DAYTON, OHIO, July 26, 1875.

I, Lewis B. Gunckel, Secretary of the Board of Managers of the National Home for Disabled Volunteer Soldiers, do hereby certify that the above proceedings were had at the time and place aforesaid, and that the same are truly and correctly copied from the minutes of the Board in my possession. Witness my hand and the seal of the National Home, the day and year last above written.

[SEAL]

LEWIS B. GUNCKEL,
Secretary of the Board.

APPENDIX L.

Explanation of the estimate for International Exhibition of 1876, War Department. (See page 154.)

INTERNATIONAL EXHIBITION, 1876,
Office of the Board on behalf of U. S. Executive Departments,
Washington, D. C., August 22, 1875.

SIR: Referring to the original estimate of expense of representing the War Department at the International Exhibition of 1876, submitted to you January 6, 1875, and approved by you under date of January 7, 1875, and to the reduced appropriation for the purpose granted by the 5th section of the sundry civil appropriation act of March 3, 1875, I have the honor to submit the following:

The amount originally estimated for was \$200,000, to be expended in transportation of articles, hire of employes, necessary expenses of officers, and all contingencies connected with the exhibition on the part of the War Department, and was to be exclusive of the cost of the building, for which a special appropriation was asked.

In making the appropriations for the several executive departments, Congress greatly reduced the respective amounts estimated for each.

The amount appropriated for the War Department was only \$133,000. From this amount it was prescribed that a proportion of the cost of a building for the accommodation of the several departments should be paid in case it became necessary to erect such a structure.

The board, on behalf of the several departments, has decided upon the erection of a building and the pro rata contribution of the War-Department fund to such purpose is \$21,451 61, leaving for the expenses of the War-Department exhibit only \$111,548 39.

I deem it of much concern to the dignity of the Government that, being a voluntary contributor to this exhibition, its several departments should be fully and liberally represented; and, as the representative of the War Department at the exhibition, I beg to request that Congress may be requested on behalf of that honorable branch of the service, to appropriate a sum sufficient to make up the amount originally asked for, or say, \$89,000. It is respectfully suggested that this amount might be included in the annual estimate of the War Department, to be expended under the direction of the board on behalf of the executive departments in the same manner as the funds now available are expended. This sum will enable a full and creditable display to be made on behalf of the War Department as originally intended, and the prestige of the nation as a war power will be much enhanced thereby.

I have the honor to be, very respectfully, your obedient servant,

S. C. LYFORD,
Bvt. Lieut. Col. U. S. A., Representative of the War Department.

The Honorable SECRETARY OF WAR.

APPENDIX M.

Explanation of the estimate for geological survey of the Territories. (See page 158.)

OFFICE OF U. S. GEOLOGICAL AND GEOGRAPHICAL SURVEY OF THE TERRITORIES,
Washington, D. C., July 20, 1875.

SIR: In explanation of the estimates for the field expenses of the geological and geographical survey of the Territories of the United States for the fiscal year ending June 30, 1877, I would respectfully state that that sum has been appropriated by Congress for four successive years, and that it is really necessary to preserve the present organization. The survey would be far more efficient and the results far greater in proportion if the sum were raised to one hundred thousand dollars. The work of the survey will hereafter be carried on in remote portions of the west, requiring much land transportation, and the general expenses will be increased. Secondly. The estimate for engraving is of the utmost importance to the success of the survey. Over two hundred quarto-plates of objects in natural history, numerous maps, and sections

which are needed to place the results of our labors before the people, are awaiting appropriations from Congress. They are now in the hands of the engraver, and are partially completed. These reports, of which these engravings form a part, lie at the foundation of all our labors. I also submit the estimate of \$3,600 for office rent and expenses.

Hoping that the above estimate will receive the favorable attention of the Secretary and Congress, I have the honor to be your obedient servant,

F. V. HAYDEN,
U. S. Geologist.

To the Honorable SECRETARY OF THE INTERIOR.

APPENDIX N.

Statement of appropriations made at the last session of Congress, for the fiscal year ending June 30, 1876, for which no estimates are submitted for the fiscal year ending June 30, 1877.

LEGISLATIVE.

UNITED STATES SENATE.

Reporting proceedings and debates.....	\$25,000 00
Postage.....	100 00
Total	25,100 00

HOUSE OF REPRESENTATIVES.

Monuments to Representatives, Congressional Cemetery	\$1,500 00
Postage.....	300 00
Total	1,800 00

COURT OF CLAIMS.

Furniture and repairs of same, Court of Claims	\$550 00
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MISCELLANEOUS.

Works of art for the Capitol.....	\$15,000 00
Total Legislative Establishment	\$42,450 00

EXECUTIVE.

DEPARTMENT OF STATE.

Publishing laws, Department of State.....	\$50,000 00
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TREASURY DEPARTMENT.

Mints and Assay Offices.

Annealing furnaces, Mint of the United States at Philadelphia.....	\$15,000 00
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Miscellaneous.

Salaries and expenses of agents at seal fisheries in Alaska	\$13,350 00
General expenses of the District of Columbia.....	760,000 00
Total	773,350 00

POST OFFICE DEPARTMENT.

Purchase of scales for Post Office Department.....	\$30,000 00
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DEPARTMENT OF JUSTICE.

Support of insane convicts.....	\$5,009 46
Total Executive Establishment	\$873,359 46

FOREIGN INTERCOURSE.

Salaries of United States and Mexican Claims Commission.....	\$23,700 00
Contingent expenses, United States and Mexican Claims Commission.....	5,000 00
Expenses attending the visit of the King of the Hawaiian Islands...	25,000 00
Commissioner to International Penitentiary Congress at Rome.....	8,000 00
Total Foreign Intercourse	61,700 00

MILITARY ESTABLISHMENT.

Tests of iron and steel.....	\$50,000 00
Gatling guns.....	50,000 00
Indianapolis arsenal, Indianapolis, Indiana.....	1,672 99
Military road from Santa Fé to Fernandez de Taos, New Mexico.....	6,644 80
Construction of military roads in Arizona.....	15,000 00
Military prison at Fort Leavenworth, Kansas.....	100,000 00
Payment to Bryant & Rogers for plans and specifications for military prison.....	600 00
Total Military Establishment.....	223,917 79

NAVAL ESTABLISHMENT.

Bounties to sailors and marines.....	\$50,000 00
Clothing of the Navy.....	240,000 00
Printing illustrations, Polaris Expedition.....	15,000 00
Total Naval Establishment.....	305,000 00

INDIAN AFFAIRS.

Interest due Osage Indians on avails of diminished reserve lands in Kansas.....	\$38,777 18
Payment to Pawnees for lands excluded from reservation.....	6,000 00
Payment to North Carolina Cherokees.....	76,927 21
Total Indian Affairs.....	121,704 39

PUBLIC WORKS.

BOTANIC GARDEN.

Improving buildings, Botanic Garden.....	\$3,550 00
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TREASURY DEPARTMENT.

Custom-houses and other public buildings.

Building for State, War, and Navy Departments, (south wing).....	\$50,000 00
Court-house and post office, Indianapolis, Indiana.....	24,000 00
Court-house and post office, Omaha, Nebraska.....	10,000 00
Court-house and post office, Columbia, South Carolina.....	30,000 00
Court-house and post office, Topeka, Kansas.....	10,000 00
Court-house and post office, Covington, Kentucky.....	175,000 00
General Post-Office building, Washington, D. C.....	106,000 00
Post office, Harrisburgh, Pennsylvania.....	160,000 00
Custom-house and post office, Newport, Rhode Island.....	11,131 93
Custom-house, Charleston, South Carolina.....	151,833 91
Custom-house, Portland, Oregon.....	40,000 00
Marine hospital, San Francisco, California.....	15,900 00
Total.....	783,865 84

Light-houses, beacons, and fog-signals.

Seguin light-station, Maine.....	\$4,000 00
Castle Hill fog-signal, Rhode Island.....	10,000 00
Thirty-mile Point light-station, New York.....	5,000 00
Sandy Hook light-station, New Jersey.....	6,000 00
Stratford Shoals light-station, Long Island Sound.....	50,000 00
Cold Spring Harbor light-station, New York.....	20,000 00
Schuylkill River light-station, Pennsylvania.....	15,000 00
Cape Henlopen fog-signal, Delaware.....	12,000 00
Liston's Tree light-station, Delaware.....	55,000 00
Thomas's Point light-station, Maryland.....	15,000 00
Jordan's Point light-station, Virginia.....	2,000 00
Currituck Beach light-station, North Carolina.....	20,000 00
Hunting Island light-station, South Carolina.....	10,000 00
Morris Island light-station, South Carolina.....	30,000 00
Castle Pinckney light-station, South Carolina.....	2,000 00
Florida Reef beacons, Florida.....	10,000 00
Repairs of iron light-houses, Florida.....	25,000 00
Fowey Rocks light-station, Florida.....	75,000 00

Dry Tortugas light-station, Florida.....	\$75,000 00
Dry Tortugas Harbor light-station, Florida.....	5,000 00
Head of the Passes light-station, Louisiana.....	3,500 00
Tchefuncti River light-station, Louisiana.....	3,500 00
Brazos Island light-station, Texas.....	25,000 00
Chicago light-station, Illinois.....	1,200 00
Detroit depot, Michigan.....	10,000 00
Eagle Harbor light-station, Michigan.....	8,000 00
South Manitou light-station, Michigan.....	2,500 00
Windmill Point light station, Michigan.....	18,000 00
Tawas light-station, Michigan.....	30,000 00
Saginaw River light-station, Michigan.....	23,000 00
Passage Island light-station, Michigan.....	18,000 00
Skilligalee light-station, Michigan.....	5,000 00
Light-ship, mouth of Detroit river.....	20,000 00
Piedras Blancas light-station, California.....	15,000 00
Yerba Buena light-station, California.....	5,000 00
Point Reyes light-station, California.....	3,000 00
Steam-tender for seventh district.....	50,000 00
Depot for thirteenth district.....	10,000 00
Establishment of new life-saving stations on Long Island Sound.....	10,000 00
Repairing the tender "Haze".....	30,000 00
Total.....	736,700 00

WAR DEPARTMENT.

Fortifications and other works of defence.

Fort Wadsworth, New York.....	\$5,000 00
Fort Brown, Texas.....	25,000 00
Fort Duncan, Texas.....	10,000 00
Ringgold Barracks, Texas.....	10,000 00
Total.....	50,000 00

Harbors and Rivers.

Improving harbor at Camden, Maine.....	\$10,000 00
Improving harbor at Portland, Maine.....	20,000 00
Improving harbor at Wareham, Massachusetts.....	10,000 00
Improving harbor at Newport, Rhode Island.....	10,000 00
Improving harbor at Waddington, New York.....	5,000 00
Improving harbor at Charlotte, New York.....	5,000 00
Improving harbor at Crisfield, Maryland.....	37,317 50
Improving harbor at Mobile, Alabama.....	26,000 00
Improving harbor at Rocky River, Ohio.....	15,000 00
Improving harbor at Grand River, Ohio.....	15,000 00
Improving harbor at Black River, Ohio.....	10,000 00
Improving harbor at Racine, Wisconsin.....	10,000 00
Improving harbor at San Diego, California.....	80,000 00
Improving Machias river, Maine.....	10,000 00
Improving Kennebec river, Maine.....	15,000 00
Improving Pawcatuck river, Rhode Island and Connecticut.....	10,000 00
Improving East Chester creek, New York.....	12,000 00
Improving Delaware river at Fort Mifflin Bar.....	20,000 00
Improving Red Fish Bar, Galveston Bay, Texas.....	10,200 00
Improving Sabine Pass, Texas.....	20,000 00
Improving ship channel, Galveston Bay, Texas.....	25,000 00
Improving falls of Ohio river and Louisville canal.....	100,000 00
Improving St. Clair river, Michigan.....	10,000 00
Improving Sebawaing river, Michigan.....	8,000 00
Dredging bar at junction of Pine and St. Clair rivers, Michigan.....	5,000 00
Total.....	498,517 50

INTERIOR DEPARTMENT.

Stable for mail wagons, Senate.....	\$10,000 00
Capitol building, Olympia, Washington Territory.....	5,274 75
Jail for the District of Columbia.....	185,548 93
Total.....	200,823 68

DEPARTMENT OF JUSTICE.

Penitentiary building at Deer Lodge, Montana Territory	\$1,200 00
Total Public Works:	2,274,657 02

POSTAL SERVICE.

Steamship service between United States and Brazil	\$37,500 00
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MISCELLANEOUS.

TREASURY DEPARTMENT.

Plans and specifications for a public building at Auburn, N. Y.	\$4,000 00
Defending claims for cotton seized	6,000 00
Payment of interest on three-sixty-five bonds, District of Columbia	367,500 00
Engraving and printing certificates of Centennial stock	30,750 00
Examination of rebel archives and records of captured property	6,000 00
International Exhibition of 1876	372,000 00
Total	786,250 00

WAR DEPARTMENT.

Pedestal for statue of General McPherson	\$25,000 00
Investigation of reported existence of cholera in Mexico	5,000 00
Total	30,000 00

INTERIOR DEPARTMENT.

Support of Children's Hospital, Washington, D. C.	\$5,000 00
National Association for Relief of Colored Women and Children, Washington, D. C.	10,000 00
Support and medical treatment of transient paupers	15,000 00
Safe for the Interior Department	2,000 00
Examination as to occupancy of Rancho Panoche Grande	5,000 00
Total	37,000 00

DEPARTMENT OF JUSTICE.

Costs adjudged against Eastern band of Cherokees	\$15,000 00
Total Miscellaneous	\$868,250 00

RECAPITULATION.

Legislative Establishment	\$42,450 00
Executive Establishment	873,359 46
Foreign Intercourse	61,700 00
Military Establishment	223,917 79
Naval Establishment	305,000 00
Indian Affairs	121,704 39
Public Works	2,274,657 02
Postal Service	37,500 00
Miscellaneous	868,250 00
Grand Total	4,808,538 66

**STATEMENT OF THE PROCEEDS OF GOVERNMENT PROPERTY, PUBLISHED IN CONFORMITY TO THE
FOLLOWING PROVISIONS OF LAW:**

All proceeds of sales of old material, condemned stores, supplies, or other public property of any kind, except the proceeds of the sale or leasing of marine hospitals, or of the sales of revenue-cutters, or of the sales of commissary stores to the officers and enlisted men of the Army, or of the sale of condemned navy clothing, or of the sales of materials, stores, or supplies to any exploring or surveying expedition authorized by law, shall be deposited and covered into the Treasury as miscellaneous receipts on account of "proceeds of Government property," and shall not be withdrawn or applied, except in consequence of a subsequent appropriation made by law. A detailed statement of the proceeds of all sales of old material, condemned stores, supplies, or other public property of any kind, shall be included in the Appendix to the Book of Estimates.—(R. S., pages 718, 727, sections 3618, 3672.)

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 3d quarter.	437	H. J. Hunt, Col. 5th Art.	Ordnance stores	Ordnance	\$785 33	
	438	T. M. Deane, Capt. O. S. K.	do	do	7,396 55	
	439	J. W. Todd, Maj. Ord	do	do	30 00	
	440	J. H. Patterson, Capt. 20th Inf.	do	do	90 00	
	441	R. C. Walker, Maj. and Paymaster	do	do	95 21	
	442	J. G. Butler, Lieut. Ord	do	do	9,579 11	
						\$17,976 20
	443	J. G. Butler, Lieut. Ord	Quartermaster's stores	Quartermaster's dept.		3,030 54
	443	J. G. Butler, Lieut. Ord	Ordnance stores	Ordnance	6,253 65	
	444	J. H. Bradford, Capt. 19th Inf.	do	do	10	
	445	T. G. Troxel, Lieut., A. A. Q. M.	do	do	46 60	
						6,300 35
	446	L. Harrington, Lieut., R. O.	Recruiting property	Adj't General's office	21 00	
	447	A. B. Dyer, Lieut., R. O.	Old material	do	5 20	
						26 20
	448	J. M. Cuyler, Med. Director	Bedding	Medical	5 97	
	449	J. Brooke, Asst. Surg.	do	do	10 92	
	450	W. H. Forwood, Asst. Surg.	do	do	18 00	
	451	B. Knickerbocker, Asst. Surg.	do	do	105 75	
	452	W. B. Van Duyn, A. A. S.	One copy "Aitkens' Practice"	do	10 50	
	453	F. F. Whitehead, Lieut. 18th Inf.	Bedding, &c.	do	3 65	
	454	D. Weisel, Asst. Surg.	do	do	28 55	
	455	C. Ewen, Asst. Surg.	do	do	26 80	
	456	T. Artand, A. A. S.	do	do	86 00	
	457	S. A. Freeman, A. A. S.	do	do	50	
	458	C. Carvallo, Asst. Surg.	Medicine	do	10	
	459	C. Page, Surgeon	Bedding	do	46 71	
						343 45
	460	C. P. McTaggart, Lieut. 17th Inf.	Clothing and equipage	Quartermaster's dept.	12 70	
	461	C. L. Gurley, Lieut. 6th Inf.	do	do	5 06	
	462	L. P. Brant, Lieut., A. A. Q. M.	do	do	460 00	
						477 76
	463	R. G. Smithers, Lieut. 10th Cav.	Commissary property	Commissary		1 25
	464	E. W. Stone, Lieut., A. A. Q. M.	Horses	Quartermaster's dept.		368 00
	465	C. B. Comstock, Maj. Engineers	Lake-survey charts	Engineers		45 90
	466	A. G. Robinson, Capt., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	20 45	
	467	H. W. Lawton, Lieut., A. A. Q. M.	do	do	23 85	
						44 30
	468	J. L. Mudge and others.	Rome arsenal, N. Y.	Ordnance	6,442 38	
	469	W. D. Smith and others.	North Carolina arsenal site	do	1,212 38	
						7,654 76
	470	J. Pollock, Supt. Mint	Weights, old steel, &c.	Mint, U. S.		6 50
	471	H. E. Hunting, Supt. L. S. Station	Condemned stoves	Customs		30 00
	472	W. S. Havens, Coll'r Customs	Tools	Light-house Board		5 54
	473	J. W. Davy, Coll'r Customs	Condemned furniture	Customs	14 00	
	474	J. F. Casey, Coll'r Customs	Condemned boats	do	10 00	
	475	J. F. Long, Sur. Customs	Horse, ambulance, &c.	do	80 00	
	476	T. E. Milstead, Coll'r Customs	Revenue boat	do	26 25	
						130 25
	477	G. W. Beamen, Paymaster	Condemned stores	Yards and Docks		1,604 82
	478	J. D. Murray, Pay Inspector	Coke and a boat	Construc'n and Repair		141 65
	479	C. J. Emery, Pay Director	Provisions to officers	Prov's and Clothing	28 77	
	480	E. Mellach, P. A. Paymaster	Condemned provisions	do	42 30	
	481	J. C. Eldredge, Pay Director	Provisions to officers	do	128 28	
						199 35
	482	J. H. C. Coffin, Professor	Nautical publications	Navigation	45 76	
	483	L. Frigerio	do	do	28 57	
	484	W. J. Thomson, P. A. Paymaster	Lantern and ordnance	do	10 15	
						84 48
	484	W. J. Thomson, P. A. Paymaster	Lantern and ordnance	Ordnance		2,420 44
	874	J. B. Engle, Lieut., A. C. S.	Condemned stores, &c.	Commissary	261 06	
	875	D. R. Burnham, Lieut., A. C. S.	do	do	14 90	
	876	C. P. Rodgers, Lieut., A. C. S.	do	do	99 76	
	877	C. P. Rodgers, Lieut., A. C. S.	do	do	55 02	
	878	W. Allen, Lieut., A. C. S.	do	do	504 78	
	879	J. Halloran, Lieut., A. C. S.	do	do	1 95	
	880	E. S. Beacom, Lieut., A. C. S.	do	do	6 50	
	881	R. G. Shaw, Lieut., A. C. S.	do	do	52 58	
	882	H. C. Hodges, Maj., Q. M.	Platform scale	do	6 00	
	883	G. V. Weir, Lieut., A. C. S.	Subsistence stores	do	53 65	
	884	T. Sharp, Lieut., A. C. S.	do	do	1 62	
	885	P. Harwood, Lieut., A. C. S.	do	do	18 30	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 3d quarter.	886	T. N. Lord, Lieut., A. C. S.	Subsistence stores	Commissary	\$10 81	
	887	C. L. Gurley, Lieut., A. C. S.	do	do	60 55	
	888	J. M. Moore, Maj., Q. M.	do	do	11 00	
	889	A. Austin, Lieut., A. C. S.	do	do	16 42	
	890	F. L. Davis, Lieut., A. C. S.	do	do	1 60	
	891	F. E. Pierce, Lieut., A. A. Q. M.	do	do	64 00	
	892	J. W. Jacobs, Lieut., A. C. S.	do	do	23 25	
	893	W. R. Parnell, Lieut., A. C. S.	do	do	605 38	
	894	P. Leary, jr., Lieut., A. C. S.	do	do	10 11	
	895	J. L. Johnston, Capt., A. C. S.	do	do	1 25	
	896	E. J. Stivers, Lieut., A. C. S.	do	do	63 10	
	897	E. Allsworth, Lieut., A. C. S.	do	do	3 25	
	898	R. G. Smithers, Lieut., A. C. S.	do	do	6 00	
	899	G. S. Hoyt, Lieut., A. C. S.	do	do	6 72	
	900	R. E. De Russey, Lieut., A. C. S.	do	do	8 00	\$1,967 56
	901	M. L. Courtney, Lieut., A. A. Q. M.	Clothing and equipage	Quartermaster's dept.	7 00	
	902	G. B. Dandy, Capt., A. Q. M.	do	do	130 77	
	903	C. H. Warrens, Lieut., A. A. Q. M.	do	do	2,146 49	
	904	A. E. Mittemore, Lieut., A. A. Q. M.	do	do	55 94	
	905	J. W. Dillenback, Lieut., A. A. Q. M.	do	do	1 30	
	906	S. P. Jocelyn, Lieut., A. A. Q. M.	do	do	886 42	
	907	G. W. Kingsbury, Lieut., A. A. Q. M.	do	do	54 07	
	908	J. F. Mount, Lieut., A. A. Q. M.	do	do	93	
	909	A. Barrett, Capt., M. S. K.	do	do	44 40	
	910	E. L. Randall, Lieut., A. A. Q. M.	do	do	8 43	
	911	C. W. Foster, Capt., A. Q. M.	do	do	245 88	
	912	S. Craig, Lieut., A. A. Q. M.	do	do	479 75	
	913	R. Pollock, Capt., A. A. Q. M.	do	do	2 00	4,063 38
	914	W. H. Rexford, Capt., O. S. K.	Ordinance stores	Ordinance	11,132 55	
	915	J. G. Butler, Lieut. Ord.	do	do	138 00	
	916	F. H. Phipps, Lieut. Ord.	do	do	7 50	
	917	F. Whyte, Lieut. Ord.	do	do	38 53	
	918	A. S. M. Morgan, Capt., O. S. K.	do	do	23 70	
	919	W. R. Shoemaker, Capt., O. S. K.	do	do	27 00	
	920	E. Ingersoll, Maj., O. S. K.	do	do	48 00	
	921	J. McNutt, Maj. Ord.	do	do	65 00	11,480 28
	922	E. M. Camp, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	106 25	
	923	E. M. Camp, Lieut., A. A. Q. M.	Hay	do	1,301 56	
	924	E. Allsworth, Lieut., A. A. Q. M.	Grain-sacks	do	23 90	
	925	J. L. Johnston, Capt., A. A. Q. M.	Quartermaster's stores	do	2 60	
	926	L. P. Brandt, Lieut., A. A. Q. M.	Three work oxen	do	31 00	
	927	H. B. Sarson, Lieut., A. A. Q. M.	Quartermaster's stores	do	30	
	928	O. H. Howard, Lieut., A. A. Q. M.	do	do	53 50	
	929	H. Romeyn, Lieut., A. A. Q. M.	Horses	do	599 00	
	930	T. W. Lord, Lieut., A. A. Q. M.	do	do	63 00	2,181 11
	931	J. M. Lee, Lieut. 9th Inf.	Recruiting property	Adj. General's office	17 55	
	932	W. J. Volkmar, Lieut., R. O.	do	do	24 94	42 49
	933	T. C. Sullivan, Capt., C. S.	Subsistence stores	Commissary	17 00	
	934	C. P. Rodgers, Lieut., A. C. S.	do	do	3 55	
	935	J. B. Guthrie, Lieut., A. C. S.	do	do	13 45	
	936	W. H. Boyle, Lieut., A. C. S.	do	do	286 71	320 71
	937	G. H. Paddock, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	36 50	
	938	W. A. Elderkin, Capt., A. Q. M.	do	do	700 50	
	939	F. L. Davis, Lieut., A. A. Q. M.	do	do	77 10	
	940	P. Harwood, Lieut., A. A. Q. M.	do	do	24 50	
	941	G. M. Love, Lieut., A. A. Q. M.	do	do	1 65	
	942	S. B. Holabird, Lieut. Col., D. Q. M. G.	do	do	1,209 75	
	943	H. H. Crews, Lieut., A. A. Q. M.	do	do	145 10	
	944	L. C. Forsyth, Capt., A. Q. M.	do	do	139 50	
	945	J. W. Jacobs, Lieut., A. A. Q. M.	do	do	115 70	
	946	W. R. Parnell, Lieut., A. A. Q. M.	do	do	712 84	
	947	E. A. Godwin, Lieut., A. A. Q. M.	do	do	104 21	
	948	W. P. Hall, Lieut., A. A. Q. M.	do	do	1 00	
	949	C. Hay, Lieut., A. A. Q. M.	do	do	198 68	
	950	J. G. Chandler, Maj., Chief Q. M.	do	do	39 00	
	951	W. Arthur, Lieut., A. A. Q. M.	do	do	120 00	
	952	L. H. Rucker, Lieut., A. A. Q. M.	do	do	201 10	
	953	J. F. Rodgers, Capt., M. S. K.	do	do	498 50	
	954	J. G. C. Lee, Capt., A. Q. M.	do	do	50	
	955	C. A. Alligood, Capt., M. S. K.	do	do	74 90	
	956	A. H. M. Taylor, Captain	Lumber, &c	do	98 80	
	957	J. O. Shelby, Lieut., A. A. Q. M.	Quartermaster's stores	do	26 75	4,526 58
	957	J. O. Shelby, Lieut., A. A. Q. M.	Commissary stores	Commissary	93 00	55
	958	W. M. Williams, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	68 40	
	959	E. S. Beacom, Lieut., A. A. Q. M.	do	do	39 38	
	960	T. M. Wenil, Lieut. 19th Inf.	do	do		

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 3d quarter.						
	961	H. Marcotte, Lieut. 17th Inf.	Quartermaster's stores	Quartermaster's dept.	\$34 59	
	962	T. G. Troxel, Lieut., A. A. Q. M.	do	do	1,251 90	
	963	T. G. Troxel, Lieut., A. A. Q. M.	do	do	1,344 92	
	964	J. Q. Adams, Lieut. 1st Cav.	do	do	361 00	
	965	J. Simpson, Lieut., A. A. Q. M.	do	do	19 00	
	966	F. Fuger, Lieut., A. A. Q. M.	do	do	33 00	
	967	J. Jackson, Capt. 1st Cav.	do	do	3 00	
	968	W. P. Martin, Capt., M. S. K.	do	do	308 07	
						\$3,556 26
	969	N. G. Ordway, Sergeant-at-Arms	Stationery to members of Congress.	Clerk House of Reps.		104 92
	970	T. H. Looker, Pay Director	Nitre	Ordnance		1 50
	971	C. P. Wallach, Pay Inspector	Old material	Steam Engineering		4,512 76
	972	E. Mellach, P. A. Paymaster	Condemned stores	Prov's and Clothing		71 00
	972	E. Mellach, P. A. Paymaster	do	Navigation		17 35
	972	E. Mellach, P. A. Paymaster	do	Construct'n and Repair	32 35	
	973	W. C. McGowan, A. P. M.	Boat and powder	do	300 00	
						332 35
	973	W. C. McGowan, A. P. M.	Powder	Ordnance		100 00
	974	R. Parks, Paymaster	Old material	Yards and Docks		114 00
	975	C. A. Arthur, Coll'r Customs	do	Customs	391 75	
	976	W. A. Simmons, Coll'r Customs	Old paper and bagging	do	6 83	
	977	C. H. Odell, Coll'r Customs	Revenue boats	do	415 00	
						813 58
	1096	D. J. Young, Capt., A. Q. M.	Clothing and equipage	Quartermaster's dept.	33 36	
	1097	W. S. Martin, Capt., M. S. K.	do	do	26 12	
	1098	C. H. Ribbel, Lieut. 20th Inf.	do	do	83 75	
	1099	G. W. Bradley, Capt., A. Q. M.	do	do	1,727 11	
						1,870 34
	1100	T. E. Merritt, Lieut., A. C. S.	Subsistence stores	Commissary	69 20	
	1101	H. J. Farnsworth, Lieut., A. C. S.	Commissary property	do	7 10	
	1102	O. L. Wieting, Lieut., A. C. S.	Subsistence stores	do	109 32	
	1103	C. P. Rodgers, Lieut., A. C. S.	do	do	149 89	
	1104	R. J. Eskridge, Capt., A. C. S.	do	do	110 20	
	1105	C. L. Cooper, Lieut., A. C. S.	do	do	14 95	
	1106	C. L. Kilburn, Col., A. C. G. S.	do	do	19 85	
	1107	T. G. Troxel, Lieut. 17th Inf.	do	do	88 08	
	1108	C. McGlure, Capt., C. S.	Beef hides	do	769 92	
	1109	J. A. Olmstead, Lieut., A. C. S.	Subsistence stores	do	1 10	
	1110	F. M. Kendrick, Lieut., A. C. S.	do	do	15 89	
	1111	G. H. Paddock, Lieut., A. C. S.	do	do	28 96	
						1,384 46
	1112	J. O. Skinner, A. A. S.	Furniture, &c.	Medical	3 25	
	1113	C. Styer, Asst. Surg.	do	do	90	
	1114	J. C. Bailey, Surgeon.	do	do	4 75	
	1115	H. M. Cronkhite, A. S.	do	do	5 39	
	1116	C. Sutherland, A. Med. Pur.	Instruments	do	29 00	
	1117	C. L. Heigmann, Asst. Surg.	Furniture	do	2 00	
	1118	B. G. McPhail, A. A. Surg.	do	do	3 50	
						48 79
	1119	G. Bell, Maj., C. S.	Condemned animals	Quartermaster's dept.	255 50	
	1120	M. I. Ludington, Quartermaster	Railway material	do	562 50	
	1121	J. G. C. Lee, Capt., A. Q. M.	Cavalry horses	do	3 00	
	1122	H. B. Quinby, Lieut., A. A. Q. M.	do	do	120 50	
						941 50
	1123	A. L. Varney, Lieut. Ord.	Ordnance stores	Ordnance	25 00	
	1124	J. McNutt, Maj. Ord.	do	do	26 00	
	1125	J. G. Butler, Lieut. Ord.	do	do	85,477 76	
	1126	F. Whyte, Capt., O. S. K.	do	do	70 13	
	1127	J. G. C. Lee, Capt., A. Q. M.	do	do	1 05	
	1128	A. S. M. Morgan, O. S. K.	do	do	22,842 50	
	1129	W. H. Rexford, Capt., O. S. K.	do	do	222 00	
						108,664 44
	1130	J. G. Foster, Lieut. Col. Engineers	Storehouse and wharf	Engineers	75 12	
	1131	C. W. Howell, Capt. Engineers	Tug-boat	do	2,678 25	
	1132	C. P. Comstock, Maj. Engineers	Old boat	do	3 20	
						2,756 57
	1133	E. I. Dudley, Lieut. 2d Art.	Desk and stationery	Refugees, Freedmen, and Abandoned Lands.		20 25
	1134	J. M. Norvell, Capt., R. O.	Furniture	Adj't General's office		41 91
	1135	O. H. Howard, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	19 30	
	1136	E. B. Kirk, Capt., A. Q. M.	do	do	836 50	
	1137	S. Seabee, Lieut., A. A. Q. M.	do	do	1,745 04	
	1138	J. W. Scully, Capt., A. Q. M.	do	do	2,014 43	
	1139	C. H. Ribbel, Lieut. 20th Inf.	do	do	157 15	
						4,772 42
	1140	D. Wann, Sur. Customs	Old stove	Customs		5 00
	1141	J. Pollock, Sup't Mint.	Old brass and iron	Mint	151 15	
	1142	J. Pollock, Sup't Mint.	Old coining press	do	150 00	
	1143	W. G. Steinmetz, Sup't Reps.	Old safe	do	41 00	
						342 15
	1144	A. L. Sturtevant	Stationery	Stationery		2 18
	1145	Adams Express Co.	Two sheets 25-cent paper	Engraving and Printing		7 00

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 3d quarter.	1146	R. L. Fogg, Sup't, &c.	Sheds, &c., Dix island	Court-house and post office, New York.		\$857 12
	1147	A. M. Clapp, Congressional Printer	Waste paper	Congressional Printer		16,339 54
	1148	W. W. Woodhull, Paymaster	Condemned stores	Equip't and Recruiting		4,073 23
	1149	J. H. C. Coffin	Publications	Navigation		35 45
	1567	T. E. Merritt, Lieut., A. C. S.	Subsistence stores	Commissary	\$40 43	
	1568	J. F. Mount, Lieut., A. C. S.	do	do	1 39	
	1569	J. O. Heir, Ord. Serg't	Commissary property	do	63 98	
	1570	J. H. Lord, Lieut., A. C. S.	Subsistence stores	do	1 50	
	1571	D. D. Wheeler, Lieut., A. C. S.	do	do	58 10	
	1572	T. C. Sullivan, Capt., C. S.	do	do	19 00	
	1573	G. F. Eoote, Lieut., A. Q. M.	do	do	39 20	
	1574	J. H. Pardee, Lieut., A. C. S.	do	do	271 74	
	1575	J. H. Pardee, Lieut., A. C. S.	do	do	71 93	
	1576	G. S. Hoyt, Lieut., A. C. S.	do	do	1 75	
	1577	C. B. Hall, Lieut., A. C. S.	do	do	5 20	
	1578	G. McDermott, Lieut., A. C. S.	do	do	4 30	
						578 52
	1579	F. Taylor, Lieut., A. A. Q. M.	Pawnee pony	Quartermaster's dept.	24 00	
	1580	A. P. Blunt, Capt., A. Q. M.	Three mules	do	130 00	
	1581	D. J. Young, Capt., O. S. K.	Condemned mules	do	156 35	
	1582	C. P. Rodgers, Lieut., A. A. Q. M.	Saddle and rope	do	1 25	
	1583	J. G. Chandler, Maj., Q. M.	Clothing and equipage	do	306 25	
	1584	G. H. Paddock, Lieut., A. A. Q. M.	do	do	34 34	
	1585	F. F. Whitehead, Lieut., A. A. Q. M.	Sale of horses	do	264 80	
	1586	J. G. C. Lee, Capt., A. Q. M.	do	do	1,776 50	
	1587	W. H. Rafferty, Capt. 6th Cav	do	do	619 00	
						3,312 49
	1588	B. D. J. Irwin, Surgeon	Furniture, &c	Medical	21 20	
	1589	J. G. C. Happersett, Asst. Surg	do	do	25 75	
	1590	J. R. Gibson, Asst. Surg	do	do	3 85	
	1591	H. Lippincott, Asst. Surg	do	do	8 55	
	1592	C. R. Greenleaf, Asst. Surg	do	do	20 15	
						79 50
	1593	F. Whyte, Capt., O. S. K.	Ordnance stores	Ordnance	5,904 79	
	1594	J. G. Butler, Capt. Ord	do	do	109,982 37	
	1595	J. G. Butler, Capt. Ord	do	do	123,000 00	
	1596	J. Belger, Maj., Act. O. O.	do	do	13 70	
	1597	W. H. Rexford, Capt., O. S. K.	do	do	26 50	
	1598	W. B. Royall, Maj. 5th Cav	do	do	16 51	
	1599	A. S. M. Morgan, Capt., O. S. K.	do	do	14,541 20	
	1600	E. Ingersoll, Maj., O. S. K.	do	do	47 64	
	1601	T. M. Deane, Capt., O. S. K.	do	do	1,000 00	
	1602	D. S. Stanley, Col. 22d Inf.	do	do	45 00	
	1603	H. R. Lemly, Lieut., A. A. Q. M.	do	do	11 00	
	1604	L. Thompson, Capt. 2d Cav	do	do	69 45	
	1605	E. Ball, Capt. 2d Cav	do	do	18 00	
						254,676 16
	1606	E. B. Grimes, Capt., A. Q. M.	Wood fencing	Quartermaster's dept.	24 25	
	1607	C. H. Hoyt, Capt., A. Q. M.	do	do	47 60	
	1608	H. B. Sarson, Lieut., A. A. Q. M.	Condemned stores	do	2 48	
	1609	J. O. Heir, Ord. Serg't	Barrack furniture	do	83 95	
	1610	R. O. Tyler, Lieut. Col., D. Q. M. G.	Office furniture	do	6 15	
						164 43
	1611	H. M. Adams, Capt. Eng'rs	Lake-survey charts	Engineers	45 90	
	1612	W. E. Merrill, Maj. Eng'rs	Old rope	do	3 50	
	1613	G. K. Warren, Maj. Eng'rs	Old material	do	45 38	
	1614	W. H. H. Benyaurd, Capt. Eng'rs	Lumber	do	884 60	
	1615	J. M. Wilson, Maj. Eng'rs	Pile-timber	do	8 00	
	1616	J. N. Macomb, Col. Eng'rs	U. S. steamer "C. J. Caffrey"	do	1,178 82	
						2,166 20
	1617	G. Barrett, jr., Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	81 10	
	1618	L. O. Parker, Lieut., A. A. Q. M.	do	do	565 70	
	1619	N. S. Constable, Capt., A. Q. M.	do	do	186 55	
	1620	G. S. Hoyt, Lieut., A. A. Q. M.	do	do	36 32	
	1621	A. P. Blunt, Capt., A. Q. M.	do	do	101 45	
	1622	A. P. Blunt, Capt., A. Q. M.	do	do	13 30	
	1623	A. W. Vodges, Lieut., A. A. Q. M.	do	do	37 35	
	1624	H. R. Lemly, Lieut., A. A. Q. M.	do	do	84 37	
	1625	J. C. Thompson, Lieut., A. A. Q. M.	do	do	57 50	
	1626	G. McDermott, Lieut., A. A. Q. M.	do	do	64 11	
	1627	G. H. Paddock, Lieut., A. A. Q. M.	do	do	38 65	
	1628	J. G. Leefe, Lieut., A. A. Q. M.	do	do	128 30	
	1629	C. B. Hall, Lieut., A. A. Q. M.	do	do	166 80	
	1630	T. B. Robinson, Lieut., A. A. Q. M.	do	do	96 65	
	1631	W. Arthur, Lieut., R. Q. M.	do	do	32 50	
	1632	J. F. Mount, Lieut. 3d Art.	do	do	7 67	
	1633	F. F. Whitehead, Lieut., A. A. Q. M.	do	do	1 90	
	1634	F. S. Davidson, Lieut., A. A. Q. M.	do	do	7 40	
	1635	T. M. Wenie, Lieut. 19th Inf.	do	do	4 37	
	1636	G. C. Smith, Capt., A. Q. M.	do	do	763 50	
						2,475 49
	1637	W. O. Avery, Chief Clerk Treas. Dept.	Waste paper	Chief Clerk		180 93
	1638	J. Pollock, Superintendent	Old material	Mint	59 38	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874.						
3d quarter.	1639	T. C. Acton, Superintendent	Blue vitriol	Mint	\$8,360 87	
	1640	F. D. Hetrich, Superintendent	Sulphate copper	do	2,361 24	
	1641	W. Wells, Coll'r Customs	Old buildings	Customs	70 00	\$10,781 49
	1642	T. A. Henry, Coll'r Customs	Boat	do	24 25	
	1643	J. H. C. Coffin, Professor	Nautical publications	Navigation	250 00	94 25
	1644	R. H. Wyman, Commander	do	do	500 00	
	1645	G. W. Beaman, Paymaster	Condemned stores	do	44 78	
	1646	C. Schenck, Pay Inspector	Condemned stores	Prov's and Clothing	498 10	794 78
	1647	E. Mellach, P. A. Paym'r	do	do	101 45	
	1648	W. W. Woodhull, Paymaster	Condemned stores	Steam Engineering		599 55
	1649	H. M. Hieskell, Pay Director	U. S. iron-clad "Yazoo"	Construc'n and Repair		1,082 51
	1650	T. H. Looker, Pay Director	Steam-hoisting engine	Yards and Docks		28,000 00
	1651	W. C. McGowan, Asst. Paym'r	Powder	Ordnance		160 00
4th quarter.	500	R. D. Clark, Paymaster	Ordnance stores	do	77 61	140 00
	501	A. B. Cain, Capt. 4th Inf.	do	do	431 83	
	502	J. S. Mason, Lieut. Col. 4th Inf.	do	do	10 00	
	503	F. Whyte, Capt., O. S. K.	do	do	48 63	
	504	J. G. Butler, Capt. Ord.	do	do	70,000 00	
	505	J. G. Butler, Capt. Ord.	do	do	43,916 00	
	506	Wm. Adams, Capt., O. S. K.	do	do	15 30	
	507	F. O. Nichols, Lieut. 1st Art	do	do	1 75	
	508	L. S. Babbitt, Capt. Ord.	do	do	430 00	
	509	J. F. Meline, jr., Capt., U. S. A.	do	do	1 70	
	510	A. S. M. Morgan, Capt., O. S. K.	do	do	2,557 00	
	511	W. R. Shoemaker, Capt., O. S. K.	do	do	34 00	
	512	W. B. Royal, Maj. 5th Cav.	do	do	43 98	
	513	P. Hasson, Lieut. 14th Inf.	do	do	75	
	514	G. L. Tyler, Capt. 2d Cav.	do	do	2 50	
	515	W. Smith, Paymaster	do	do	22 69	
	516	W. A. Marye, Capt. Ord.	do	do	3,901 55	
	517	T. M. Deane, Capt., O. S. K.	do	do	3,414 40	
	518	D. F. Cullinan, Lieut., A. C. S.	Subsistence stores	Commissary	16 00	124,909 69
	519	T. B. Robinson, Lieut., A. C. S.	do	do	37 95	
	520	F. E. Pierce, Lieut., R. Q. M.	do	do	40 00	
	521	J. W. Jacobs, Lieut., A. C. S.	do	do	3 00	
	522	J. G. MacAdams, Lieut. 2d Cav.	Commissary property	do	1 00	
	523	E. J. Stivers, Lieut., A. C. S.	Subsistence stores	do	8 05	
	524	H. Schreiner, Capt., A. C. S.	do	do	4 14	
	525	J. G. Leefe, Lieut., A. C. S.	do	do	1 05	
	526	A. G. Tassin, Lieut., A. C. S.	do	do	4 25	
	527	W. Allen, Lieut., A. C. S.	do	do	57 50	
	528	T. Wilson, Capt., C. S.	do	do	1,724 40	
	529	E. H. Totten, Lieut. 1st Art.	do	do	1 25	
	530	E. K. Russell, Lieut., A. C. S.	do	do	14 20	
	531	W. T. Hartz, Lieut., A. C. S.	do	do	63	
	532	H. S. Weeks, Lieut., A. C. S.	do	do	54 25	
	533	C. P. Rodgers, Lieut. 5th Cav.	do	do	162 84	
	534	S. Bishop, Lieut., A. C. S.	do	do	188 31	
	535	A. E. Woodson, Lieut., A. C. S.	do	do	143 93	
	536	J. F. Trout, Lieut., A. A. Q. M.	do	do	2 25	
	537	J. Harvey, A. A. Surg.	Bedding, &c.	Medical	52 20	2,465 00
	538	N. Marselis, A. A. Surg.	do	do	34 00	
	539	R. S. Vickery, Asst. Surg.	do	do	13 60	
	540	W. S. Tremaine, Asst. Surg.	Hospital stores	do	7 00	
	541	A. W. Wiggin, Asst. Surg.	Bedding, &c.	do	7 69	
	542	S. M. Horton, Asst. Surg.	Medicine	do	4 05	
	543	R. W. Odell, A. A. S.	do	do	4 75	
	544	E. Luff, Lieut., A. A. Q. M.	Clothing and equipage	Quartermaster's dept.	58 50	123 29
	545	J. F. Trout, Lieut., A. A. Q. M.	do	do	180 20	
	546	P. Leary, jr., Lieut., A. A. Q. M.	do	do	75	
	547	A. W. Hoffman, Lieut., A. A. Q. M.	do	do	33 50	
	548	J. E. H. Foster, Lieut., A. A. Q. M.	do	do	9 50	
	549	A. McIntyre, Lieut., A. A. Q. M.	do	do	55 09	
	550	A. McIntyre, Lieut., A. A. Q. M.	Old lumber	do	12 00	
	551	J. Belger, Maj., Q. M.	Hay	do	50 00	
	552	C. H. Rockwell, Lieut., A. A. Q. M.	Horses	do	268 38	
	553	E. W. Stone, Lieut., A. A. Q. M.	do	do	143 55	
	554	G. McDermott, Lieut. A. A. Q. M.	Quartermaster's stores	do	27 83	
	555	F. S. Davidson, Lieut. A. A. Q. M.	Old iron	do	191 10	
	556	M. I. Ludington, Lieut. Col. Q. M.	Railway property	do	607 50	
	557	Jas. O'Hara, Lieut. A. A. Q. M.	Quartermaster's stores	do	7 55	
	558	F. S. Davidson, Lieut. A. A. Q. M.	Grain-sacks	do	71 70	
	559	L. P. Brant, Lieut. A. A. Q. M.	Quartermaster's stores	do	84 25	
	560	C. Bird, Lieut. A. A. Q. M.	Grain	do	71 46	
	561	B. D. Boswell, Lieut. A. A. Q. M.	Quartermaster's stores	do	781 65	
	562	H. P. Eakin, Lieut. 6th Cav.	do	do	4 92	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 4th quarter.	563	G. W. H. Stouch, Lieut. A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	\$512 25	
	564	L. H. Rucker, Lieut. A. A. Q. M.	do	do	27 75	
	565	C. Keller, Lieut. A. A. Q. M.	do	do	25 15	
	566	O. B. Boyd, Lieut. A. A. Q. M.	do	do	276 00	
	567	G. H. Kinzie, Lieut. A. A. Q. M.	do	do	475 28	
	568	D. R. Burnham, Lieut. A. A. Q. M.	do	do	15 55	
	569	W. B. Hughes, Capt. Q. M. D.	do	do	131 50	
	570	G. F. Foote, Lieut. A. A. Q. M.	do	do	1,040 80	
	571	O. B. Boyd, Lieut. A. A. Q. M.	do	do	1 61	
	572	H. S. Weeks, Lieut. A. A. Q. M.	do	do	435 50	
	573	W. T. Hartz, Lieut. A. A. Q. M.	do	do	35 32	
	574	C. R. Layton, Lieut. A. A. Q. M.	do	do	7 85	
	575	D. D. Wheeler, Lieut. 1st Art.	do	do	64 00	
	576	J. H. Lord, Lieut. R. Q. M.	do	do	6 80	
	577	J. E. Sawyer, Lieut. R. Q. M.	do	do	3 20	
	578	A. G. Robinson, Capt. A. Q. M.	do	do	172 12	
	579	J. V. Furey, Capt. A. Q. M.	do	do	14 15	
	580	H. R. Jones, Lieut. 1st Inf.	do	do	1,229 70	
	581	J. W. Scully, Capt. Q. M. D.	do	do	99 20	
	582	C. L. Gurley, Lieut. A. A. Q. M.	do	do	197 00	
	583	J. A. Olmstead, Lieut. A. A. Q. M.	do	do	22 50	
	584	J. E. H. Foster, Lieut. A. A. Q. M.	do	do	1,941 50	
	585	C. G. Gordon, Lieut. A. A. Q. M.	do	do	1,336 55	
	586	H. M. Kendall, Lieut. A. A. Q. M.	do	do	2,106 38	
	587	C. A. Booth, Lieut. A. A. Q. M.	do	do	197 40	
	588	J. W. Jacobs, Lieut. A. A. Q. M.	do	do	99 00	
	589	J. W. Duncan, Lieut. A. A. Q. M.	do	do	32 50	
	590	W. R. Parnell, Lieut. A. A. Q. M.	Horses, mules, &c.	do	795 00	
	591	H. B. Quimby, Lieut. A. A. Q. M.	Quartermaster's stores	do	133 60	
	592	M. L. Courtney, Lieut. A. A. Q. M.	do	do	35 50	
	593	H. B. Quimby, Lieut. A. A. Q. M.	Horses, &c.	do	233 75	\$14,363 84
	594	H. Jackson, Lieut. D. Q.	Condemned instruments, &c.	Signal office		24 36
	595	W. O. Avery, Chief Clerk Treas. Dep't.	Waste paper	Chief Clerk	589 42	
	596	W. O. Avery, Chief Clerk Treas. Dep't.	Horse	do	57 00	646 42
	597	W. A. Simmons, Collector	Old paper, &c.	Customs	16 95	
	598	S. Dodge, Collector	Old stove	do	2 00	
	599	W. Booth, Collector	Condemned furniture	do	5 25	
	600	R. W. Daniels, Collector	do	do	468 77	
	601	L. Lee, jr., Collector	Old custom-house lot	do	1,275 00	1,767 97
	602	M. F. Bonzano, Superintendent	138 carboys	Mint	69 00	
	603	J. F. L. Schirmer, Assayer	Nine barrels sweeps	do	383 41	452 41
	604	E. B. Babbitt, Maj. U. S. A.	Mules, tents, &c.	Mexican Boundary Com.		743 20
	605	W. J. Thomson, P. A. Paymaster	Windlass	Construc'n and Repair	15 00	
	606	R. S. McConnell, P. A. Paymaster	Monitors	do	11,270 63	
	607	G. E. Thornton, Pay Inspector	Iron-clad vessels	do	56,077 50	67,363 13
	608	J. C. Eldredge, Pay Director	Provisions	Prov's and Clothing	22 20	
	609	W. J. Thomson, P. A. Paymaster	Condemned stores	do	144 45	
	610	E. Foster, Pay Inspector	Provisions	do	74 40	241 05
	611	J. H. C. Coffin, Superintendent	Nautical publications	Navigation	150 00	
	612	R. H. Wyman, Com.	do	do	300 00	
	613	L. Frigerio	do	do	15 31	
	614	A. Roman & Co.	do	do	56 90	
	615	A. Roman & Co.	do	do	21 70	543 91
	616	C. P. Wallach, Pay Inspector	Condemned naval stores	Ordnance		210 00
	616	C. P. Wallach, Pay Inspector	do	Steam Engineering		937 21
	616	C. P. Wallach, Pay Inspector	do	Equip't and Recruit'g		1,090 42
	616	C. P. Wallach, Pay Inspector	do	Yards and Docks		125 00
	617	W. H. Woodhull, Paymaster	do	Ordnance		1,501 57
	617	W. H. Woodhull, Paymaster	do	Steam Engineering		114 50
	617	W. H. Woodhull, Paymaster	do	Navigation		416 14
	617	W. H. Woodhull, Paymaster	do	Prov's and Clothing		55 00
	1009	E. S. Beacom, Lieut., A. A. Q. M.	Clothing and equipage	Quartermaster's dept.	93 85	
	1010	G. A. Hull, Capt., M. S. K.	do	do	121,550 00	
	1011	E. R. Theller, Lieut., A. A. Q. M.	Horses	do	327 95	
	1012	F. F. Whitehead, Lieut., 18th Inf.	do	do	8 20	
	1013	J. J. Clague, Lieut., A. A. Q. M.	Quartermaster's stores	do	77 50	
	1014	I. H. Lord, Lieut., R. Q. M.	Mule	do	15 50	
	1015	G. McDermott, Lieut., A. A. Q. M.	Quartermaster's stores	do	14	122,073 14
	1016	L. H. Rucker, Lieut., A. C. S.	Subsistence stores	Commissary	3 00	
	1017	T. C. Sullivan, Capt., C. S.	do	do	5 00	
	1018	E. B. Pratt, Lieut., A. C. S.	do	do	618 78	
	1019	C. P. Rodgers, Lieut., A. C. S.	do	do	38 30	
	1020	O. B. Boyd, Lieut., 8th Cav.	do	do	30 45	
	1021	F. M. H. Kendrick, Lieut., A. C. S.	do	do	270 32	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 4th quarter.	1022	H. M. Kendall, Lieut., A. C. S.	Subsistence stores	Commissary	\$169 63	
	1023	C. L. Cooper, Lieut., A. C. S.	do	do	6 50	\$1,141 98
	1024	A. A. Woodhull, Asst. Surg.	Furniture, &c.	Medical	21 55	
	1025	P. J. A. Clary, Asst. Surg.	do	do	1 50	
	1026	J. J. DeLamater, Asst. Surg.	do	do	2 63	
	1027	F. L. Town, Surgeon	do	do	60	
	1028	J. H. Porter, A. A. S.	Lancet	do	2 50	
	1029	J. V. D. Middleton, Surgeon	Furniture, &c.	do	29 25	
	1030	B. E. Lightburne, A. A. S.	do	do	10 85	
	1031	W. E. Whitehead, Asst. Surg.	Instruments	do	2 00	
	1032	G. E. Cooper, Surgeon	Furniture	do	1 75	72 63
	1033	J. J. Clague, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	83 30	
	1034	G. A. Hull, Capt., M. S. K.	do	do	295 95	
	1035	S. R. Jones, Lieut., A. A. Q. M.	do	do	8 49	
	1036	A. P. Blunt, Capt., A. Q. M.	do	do	14 40	
	1037	T. J. Eckerson, Capt., A. Q. M.	do	do	6 85	408 99
	1038	W. O. Avery, Chief Clerk Treas. Dept.	Waste paper	Chief Clerk		228 58
	1039	T. B. Shannon, Collector, &c.	Gauger's rods, &c.	Customs		96 13
	1040	S. McCulloch, Supt.	Furniture	Branch mint, San Francisco.		122 55
	1041	E. W. Fox, late Surveyor, &c.	Swine, calves, &c.	Marine Hospital.	58 25	
	1042	W. A. Simmons, Collector, &c.	Furniture	do	7 01	65 26
	1043	A. Campbell, Commissioner, &c.	Oats, sleigh, &c.	Survey Northern boundary, Dept. of State.		501 19
	1044	S. Reed, Sur. Gen., Wy. T.	Old carpet	Surveyor General, Wy. T., Int. Dept.		35 00
	1045	W. J. Thomson, P. A. Paymaster.	Coal	Equip't and Recruit'g		33 68
	1046	W. J. Thomson, P. A. Paymaster.	Ordnance stores, (navy)	Ordnance	396 31	
	1047	T. H. Looker, Pay Director	Powder	do	10 50	406 81
	1355	P. Moffatt, Asst. Surg.	Furniture	Medical	19 00	
	1356	J. P. Arthur, A. A. Surg.	do	do	3 50	
	1357	J. W. Brower, Asst. Surg.	do	do	6 45	
	1358	J. H. Kinsman, Asst. Surg.	do	do	26 00	54 95
	1359	J. W. Todd, Major	Ordnance stores	Ordnance	4,044 39	
	1360	G. H. Gilbreth, Capt., O. S. K.	do	do	4,480 66	
	1361	J. G. Butler, Capt. Ord.	do	do	11,201 60	
	1362	F. H. Phipps, Capt., O. O.	do	do	72 00	
	1363	W. H. Rexford, Capt., O. S. K.	do	do	69 00	
	1364	F. Whyte, Capt., O. S. K.	do	do	150 00	20,017 65
	1365	L. H. Rucker, Lieut., A. A. Q. M.	Horses	Quartermaster's dept.	139 00	
	1366	L. C. Forsythe, Capt., A. Q. M.	do	do	670 00	
	1367	H. J. Nowlan, Lieut., R. Q. M.	do	do	30 50	
	1368	J. Humbert, Lieut., A. A. Q. M.	Clothing and equipage	do	46 80	
	1369	G. A. Hull, Capt., M. S. K.	do	do	11,458 43	
	1370	G. A. Hull, Capt., M. S. K.	do	do	2,547 39	14,892 12
	1371	J. J. Clague, Lieut., A. C. S.	Subsistence stores	Commissary	50	
	1372	R. Pollock, Capt. 21st Inf.	do	do	27 08	27 58
	1373	R. Pollock, Capt. 21st Inf.	Grain	Quartermaster's dept.	1,636 16	
	1374	J. Halloran, Lieut., A. A. Q. M.	Animals	do	97 00	
	1375	J. Belger, Major	Fence	do	165 00	1,898 16
	1376	F. Harwood, Maj. Eng'rs	Tools, &c.	Engineers		1,165 37
	1377	J. H. Gifford, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	62 08	
	1378	T. G. Troxel, Lieut., A. A. Q. M.	do	do	169 43	
	1379	R. Pollock, Capt. 21st Inf.	do	do	207 63	
	1380	G. O. Eaton, Lieut., A. A. Q. M.	do	do	77 25	
	1381	O. L. Hein, Lieut., A. A. Q. M.	do	do	170 67	
	1382	J. B. Nixon, Lieut., A. A. Q. M.	do	do	192 91	
	1383	J. Belger, Maj., Q. M.	do	do	55 95	
	1384	A. B. Kaufman, Capt., A. A. Q. M.	do	do	10 25	
	1385	J. B. Engle, Lieut. 15th Inf.	do	do	968 25	
	1386	J. G. Chandler, Maj., Q. M.	Buckets, tools, &c.	do	143 75	
	1387	R. Pollock, Capt., A. A. Q. M.	Quartermaster's stores	do	13 80	
	1388	A. Morton, Lieut., A. A. Q. M.	do	do	401 05	
	1389	P. Hasson, Lieut., A. A. Q. M.	do	do	287 96	
	1390	G. L. Luhn, Lieut., A. A. Q. M.	do	do	245 75	3,011 73
	1391	A. Vandine, Collector	Old stove	Customs	2 50	
	1392	W. A. Simmons, Collector	Old paper, iron, &c.	do	6 92	
	1393	J. R. Scott, Collector	Condemned furniture	do	1 65	
	1394	N. Plato, Collector	do	do	48 25	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 4th quarter.	1395	L. Lee, jr., Collector	Custom-house lot	Customs	\$1,786 40	
	1396	R. Roby, Superintendent, &c	Old iron fence	do	373 57	
	1397	M. A. Shaffenburg, Marshal	Bricks made by convicts	Judiciary		\$2,219 25
	1398	E. Mellach, Paymaster	Condemned provisions	Prov's and Clothing		681 00
	1399	J. D. Murray, Pay Inspector	Coke and gas	Equip't and Recruit'g		184 90
	1400	G. W. Beaman, Paymaster	Condemned stores	Construc'n and Repair		104 30
	1475	J. Gilliss, Capt., A. Q. M	Condemned stove	Quartermaster's dept.	2 25	703 41
	1476	E. Allsworth, Lieut., A. A. Q. M	Stoves	do	4 25	
	1477	E. B. Carling, Lieut., A. A. Q. M	Two pine slabs	do	2 50	
	1478	S. R. Jones, Lieut., A. A. Q. M	Oxen	do	140 00	
	1479	E. B. Rheem, Lieut., A. A. Q. M	Quartermaster's stores	do	224 20	
	1480	E. S. Beacom, Lieut., A. A. Q. M	do	do	104 50	
	1481	M. I. Ludington, Maj., Q. M	Railway materials	do	1,261 75	
	1482	F. White, Capt., O. S. K	Ordnance stores	Ordnance	1,608 77	1,739 45
	1483	A. B. Kauffman, Capt 8th Cav	do	do	27 80	
	1484	A. E. Woodson, Lieut 5th Cav	do	do	6 55	
	1485	W. B. Royall, Maj. 5th Cav	do	do	7 45	
	1486	E. W. Stone, Lieut., A. A. Q. M	Horses	do	747 00	
	1487	J. V. Furey, Capt., A. Q. M	do	do	1,027 50	
	1488	J. H. Belcher, Capt., A. Q. M	Clothing and equipage	do	69 15	
	1489	C. Humphreys, Lieut., A. A. Q. M	do	do	65	
	1490	J. F. Mount, Lieut., A. A. Q. M	do	do	35	
	1491	L. C. Forsyth, Capt., A. Q. M	do	do	20 00	
	1492	F. M. H. Kendrick, Lieut., A. A. Q. M	do	do	6 78	
	1493	W. R. Parnell, Lieut., A. C. S	Subsistence stores	Commissary	82 00	3,522 00
	1494	L. P. Brant, Lieut., A. C. S	Hay	do	105 00	
	1495	F. M. H. Kendrick, Lieut., A. C. S	Subsistence stores	do	22 05	
	1496	F. E. Pierce, Lieut., A. C. S	do	do	219 55	
	1497	C. McClure, Capt., C. S	Beef hides	do	727 65	
	1498	D. C. Pearson, Lieut., A. C. S	Subsistence stores	do	6 55	
	1499	J. W. French, Capt., A. C. S	do	do	6 55	
	1500	L. O. Parker, Lieut., A. C. S	do	do	29 26	
	1501	J. L. Mast, Lieut., A. C. S	do	do	2 60	
	1502	L. H. Rucker, Lieut., A. C. S	do	do	157 76	
	1503	J. H. Gifford, Lieut., A. C. S	do	do	12 00	
	1504	R. M. Potter, Lieut., A. C. S	do	do	5 00	
	1505	D. D. Wheeler, Lieut., A. C. S	Commissary property	do	1 25	
	1506	H. Schreiner, Capt., A. C. S	Subsistence stores	do	887 64	
	1507	E. S. Beacom, Lieut., A. C. S	do	do	4 00	
	1508	J. B. Nixon, Lieut., A. C. S	do	do	7 70	
	1509	C. Keller, Lieut., A. C. S	do	do	2 00	
	1510	J. Belger, Maj., A. C. S	do	do	6 20	
	1511	W. Lassiter, Lieut., A. C. S	Commissary property	do	3 40	
	1512	E. K. Russell, Lieut., A. C. S	Subsistence stores	do	1 57	
	1513	J. Belger, Maj., A. C. S	do	do	6 00	
	1514	L. M. O'Brien, Lieut., A. C. S	do	do	5 00	
	1515	Ira Quinby, Lieut., A. C. S	do	do	62	
	1516	A. B. Kaufman, Capt., A. C. S	do	do	32 50	
	1517	C. H. Rockwell, Lieut., A. C. S	do	do	7 43	
	1518	E. B. Pratt, Lieut., A. C. S	do	do	60	
	1519	C. P. Rodgers, Lieut., A. C. S	do	do	28 59	
	1520	B. Aldrich, Lieut., R. Q. M	do	do	23 75	
	1521	J. Q. Adams, Lieut., A. C. S	do	do	2 00	
	1522	P. H. Ray, Lieut., A. C. S	do	do	29 09	
	1523	T. Wilson, Capt., Sub. Dept	do	do	125 65	
	1524	T. Wilson, Capt., Sub. Dept	do	do	1,100 00	
	1525	E. B. Grimes, Capt., A. Q. M	Quartermaster's stores	Quartermaster's dept.	18 55	3,650 96
	1526	H. B. Sarson, Lieut., A. A. Q. M	Hay	do	2 00	
	1527	R. W. Odell, A. A. Surg	Bedding, &c	Medical	2 50	20 55
	1528	A. B. Campbell, Asst. Surg	do	do	23 00	
	1529	B. J. D. Irwin, Surgeon	Furniture, &c	do	40 12	
	1530	D. Bache, Surgeon	do	do	9 14	
	1531	W. H. King, Asst. Surg	do	do	2 85	
	1532	G. T. Beall, Capt., M. S. K	Bedding, &c	do	40 50	
	1533	J. F. Broughter, A. A. S	do	do	47 72	
	1534	S. A. Freeman, A. A. S	do	do	24 55	
	1535	J. B. Girard, Asst. Surg	do	do	39 90	
	1536	J. Reagles, A. A. Surg	Furniture	do	40	
	1537	L. H. Patty	do	do	5 20	
	1538	E. A. Koerper, Asst. Surg	Instruments, &c	do	16 11	
	1539	H. M. Adams, Capt. Eng'rs	Lake-survey charts	Engineers	4 80	251 99
	1540	G. M. Wheeler, Lieut. Eng'rs	Old material	do	319 00	
	1541	G. Bell, Maj., A. D. Q. M	Quartermaster's stores	Quartermaster's dept.	467 00	323 80
	1542	Ira Quinby, Lieut., A. A. Q. M	do	do	131 75	
	1543	O. H. Ernst, Capt. Eng'rs	do	do	2 87	
	1544	J. M. Marshall, Lieut. 4th Art	do	do	1,099 42	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1874. 4th quarter.	1545	W. Arthur, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	\$100 10	\$3,107 33
	1546	J. H. Lord, Lieut., R. Q. M.	do	do	1 25	
	1547	F. B. Jones, Lieut., A. A. Q. M.	do	do	126 80	
	1548	J. G. Chandler, Maj., Q. M.	do	do	226 00	
	1549	A. G. Forse, Lieut., A. A. Q. M.	do	do	625 79	
	1550	A. P. Blunt, Capt., A. Q. M.	do	do	1 20	
	1551	W. H. Andrews, Lieut., A. A. Q. M.	do	do	282 05	
	1552	J. W. French, Capt., A. Q. M.	do	do	43 10	
	1553	Wm. O. Avery, Chief Clerk Treas. Dept.	Carpets, chairs, &c.	Chief Clerk	294 27	
	1554	Wm. O. Avery, Chief Clerk Treas. Dept.	Waste paper	do	199 86	
	1555	F. D. Sewall, Supervisor	Furniture	Internal Revenue		
	1556	J. Pollock, Superintendent	Adjusting weights	Mint	20 69	
	1557	T. C. Acton, Superintendent	Blue vitriol, &c.	do	4,793 17	
	1558	O. H. La Grange, Superintendent	Machinery, engines, &c.	do	3,020 21	
	1559	R. Joseph, D. C., Int. Dept.	Waste paper, &c.	Interior Department		
	1560	T. H. Looker, Pay Director	Material	Steam Engineering		
	1561	T. H. Looker, Pay Director	Ordnance stores	Ordnance	45 60	
	1562	W. W. Woodhull, Paymaster	Coal and powder	do	453 00	
	1563	W. J. Thomson, P. A. Paym'r	Ordnance stores	do	222 50	
	1564	W. J. Thomson, P. A. Paym'r	Provisions	Prov's and Clothing		
	1565	J. P. Loomis, P. A. Paym'r	Dry dock, New London	Construc'n and Repair		
	1566	J. Q. Adams, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.		
	1567	A. E. Smith, Lieut., A. C. S.	Four cows	Commissary		
	1568	M. K. Taylor, Asst. Surg.	Bedding	Medical	50	
	1569	W. F. Buchanan, Asst. Surg.	Instruments, &c.	do	3 63	
	1570	V. B. Hubbard, Asst. Surg.	Furniture	do	47 90	
	1571	E. P. Eckerson, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	47 35	
	1572	P. Harwood, Lieut., A. A. Q. M.	do	do	113 50	
1875. 1st quarter.	407	C. C. Gray, Surg. U. S. A.	Condemned property	Medical	11 88	
	408	R. S. Vickery, Asst. Surg.	Scales, weights, &c.	do	1 60	
	409	D. D. Wheeler, Lieut., A. A. Q. M.	Condemned instruments, &c.	do	10 10	
	410	W. H. Forward, Asst. Surg.	Instruments, bedding, &c.	do	43 75	
	411	W. F. Buchanan, Asst. Surg.	Medicines	do	18 15	
	412	O. B. Boyd, Lieut. 8th Cav.	Clothing and equipage	Quartermaster's dept.	30 00	
	413	C. M. Bailey, Lieut., A. A. Q. M.	do	do	86 55	
	414	C. G. Penney, Lieut., A. A. Q. M.	Yearling colt.	do	40 00	
	415	J. H. Lord, Lieut., R. Q. M.	Horses	do	355 00	
	416	W. H. Benyaurd, Capt. Eng'rs	Camp outfit and tools	Engineers	13 45	
	417	W. H. Benyaurd, Capt. Eng'rs	Three boats	do	107 74	
	418	W. E. Merrill, Maj. Eng'rs	Flat boats, skiffs, &c.	do	128 25	
	419	E. T. Brown, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	6 90	
	420	W. E. Kingsbury, Lieut., A. A. Q. M.	do	do	30 00	
	421	W. Lassiter, Lieut., A. A. Q. M.	do	do	18 20	
	422	A. G. Hennisee, Lieut., A. A. Q. M.	do	do	1,727 77	
	423	C. H. Rockwell, Lieut., A. A. Q. M.	do	do	621 29	
	424	N. S. Constable, Capt., A. Q. M.	do	do	112 75	
	425	W. O. Avery, Chief Clerk Treas. Dept.	Condemned carpets	Chief Clerk		
	426	H. C. Robinson, Disb'g Agent	Empty barrels	Customs		
	427	W. Wells, Collector	Old iron safe	do	21 00	
	428	H. C. Akeley, Collector	Furniture	do	5 00	
	429	W. J. Smith, Surveyor	Stove	do	7 00	
	430	B. G. Shields, Collector	Furniture and carpets	do	30 00	
	431	R. C. Morgan, D. C. State Dept.	Laws	State Department		
	432	C. P. Wallach, Pay Inspector	Condemned stores	Construc'n and Repair		
	432	C. P. Wallach, Pay Inspector	do	Steam Engineering		
	432	C. P. Wallach, Pay Inspector	do	Yards and Docks		
	432	C. P. Wallach, Pay Inspector	do	Ordnance		
	433	J. H. C. Coffin, Professor	Nautical books, &c.	Navigation	200 00	
	434	L. Frigerio	do	do	14 40	
	435	A. Roman & Co.	do	do	66 50	
	436	A. Roman & Co.	Nautical books	do	55 30	
	437	J. H. C. Coffin, Professor	do	do	61 55	
	438	T. C. Cosby, Paymaster	90 pounds iron	Steam Engineering		
	439	J. P. Loomis, Paymaster	Horse	Yards and Docks		
	440	J. C. Eldredge, Pay Director	Provisions	Prov's and Clothing	250 21	
	441	C. J. Emery, Pay Director	do	do	388 24	
	442	G. W. Beaman, Paymaster	Condemned stores	Equip't and Recruit'g		
	907	J. M. Dyer	Champlain arsenal	Ordnance	4,850 00	
	908	T. W. Deane, Capt., O. S. K.	Ordnance stores	do	114,670 80	
	909	E. Ingersoll, Maj., O. S. K.	do	do	25 82	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold,	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875. 1st quarter.	910	E. Ingersoll, Maj., O. S. K	Ordnance stores	Ordnance	\$205 00	
	911	H. G. Litchfield, Capt., A. D. C	do	do	60 00	
	912	G. F. Fowle, Lieut. 19th Inf	do	do	7 50	
	913	B. H. Gilbreth, Capt., O. S. K	do	do	1,590 23	
	914	J. E. Greer, Capt. Ord	do	do	370 69	
	915	T. H. Phipps, Capt. Ord	do	do	70 00	
	916	R. E. Johnston, Capt. 1st Inf	do	do	8 07	
	917	S. Munson, Capt. 9th Inf	do	do	40 00	
	918	F. Whyte, Capt., O. S. K	do	do	300 00	
	919	DeL. F. Jones, Col. 3d Inf	do	do	5 80	
	920	W. R. Shoemaker, Capt., O. S. K	do	do	313 00	
	921	A. S. M. Morgan, Capt., O. S. K	do	do	1,304 00	
	922	L. S. Babbitt, Capt. Ord	do	do	8,850 88	
	923	B. H. Gilbreth, Capt., O. S. K	do	do	10 43	
	924	J. E. Greer, Lieut. Ord	do	do	344 00	
	925	J. G. Butler, Capt. Ord	do	do	13,154 09	
	926	W. H. Rexford, Capt., O. S. K	do	do	104 00	
						\$146,284 31
	927	J. Halloran, Lieut., A. C. S	Subsistence stores	Commissary	52 97	
	928	W. H. Winters, Lieut., A. C. S	do	do	17 15	
	929	A. G. Forse, Lieut., A. C. S	do	do	31 60	
	930	P. H. Ray, Lieut., A. C. S	do	do	187 28	
	931	W. Allen, Lieut., A. C. S	do	do	2 40	
	932	A. E. Woodson, Lieut., A. C. S	do	do	63 25	
	933	C. H. Rockwell, Lieut., A. C. S	do	do	35 17	
	934	C. P. Rodgers, Lieut., A. C. S	do	do	40 57	
	935	J. B. Engle, Lieut., A. C. S	do	do	133 75	
	936	C. P. Eagan, Capt., C. S	do	do	7 50	
	937	G. H. Kinzie, Lieut., A. C. S	do	do	39 80	
	938	M. Barber, Lieut., A. A. Q. M	do	do	20	
	939	F. B. Jones, Lieut., A. C. S	do	do	3 95	
	940	W. A. Miller, Lieut., A. C. S	do	do	2 35	
	941	L. H. Rucker, Lieut., A. C. S	do	do	31 65	
	942	I. Quinby, Lieut., A. C. S	do	do	20 50	
	943	A. C. Taylor, Lieut., A. C. S	do	do	1 25	
	944	T. T. Thornburg, Lieut., A. C. S	do	do	4 45	
	945	W. S. Starring, Lieut., A. C. S	do	do	14 25	
	946	J. L. Mast, Lieut., A. C. S	do	do	05	
	947	E. S. Beacom, Lieut., A. C. S	do	do	5 40	
	948	H. Schreiner, Lieut., A. C. S	do	do	8 00	
	949	E. Allsworth, Lieut., A. C. S	do	do	36 10	
	950	L. O. Parker, Lieut., A. C. S	do	do	67 00	
	951	A. Austin, Lieut., A. C. S	do	do	6 24	
	952	G. L. Luhn, Lieut., A. C. S	do	do	159 85	
	953	J. H. Gilman, Capt., C. S	do	do	176 23	
	954	P. Leary, jr., Lieut., A. C. S	do	do	12 42	
	955	J. W. Jacobs, Lieut., A. C. S	do	do	737 00	
	956	C. A. Booth, Lieut., A. C. S	do	do	312 74	
	957	P. Harwood, Lieut., A. C. S	do	do	92 10	
	958	W. J. Campbell, Lieut., A. C. S	do	do	75 24	
	959	E. Z. Steever, jr., Lieut., A. C. S	do	do	39 35	
	960	J. W. Jacobs, Lieut., A. C. S	do	do	17 25	
	961	W. J. Reed, Lieut., A. C. S	do	do	60 55	
	962	F. M. H. Kendrick, Lieut., A. C. S	do	do	2 45	
	963	C. L. Cooper, Lieut., A. C. S	do	do	36 79	
	964	H. Schreiner, Capt., A. C. S	do	do	6 30	
	965	A. E. Woodson, Lieut., A. C. S	do	do	8 20	
	966	C. P. Rodgers, Lieut., A. C. S	do	do	44 84	
	967	C. D. Parkhurst, Lieut., A. C. S	do	do	43 65	
	968	C. P. Rodgers, Lieut., A. C. S	do	do	17 61	
	969	C. Keller, Lieut., A. C. S	do	do	1 00	
	970	J. Simpson, Lieut., A. C. S	do	do	1 25	
	971	H. M. Andrews, Lieut., A. C. S	do	do	66 60	
	972	H. M. Andrews, Lieut., A. C. S	do	do	5 60	
	973	H. B. Sarson, Lieut., A. C. S	do	do	29 95	
	974	J. McGilvray, Lieut., A. C. S	do	do	5 00	
						2,764 80
	975	J. H. Gifford, Lieut., A. A. Q. M	Clothing and equipage	Quartermaster's dept	153 19	
	976	C. P. Miller, Lieut., A. A. Q. M	do	do	21 60	
	977	G. W. Bradley, Capt., A. Q. M	do	do	10 00	
	978	C. H. Warrens, Lieut., A. A. Q. M	do	do	10 00	
	979	H. H. Benner, Lieut., A. A. Q. M	do	do	35	
	980	J. J. Clague, Lieut., A. A. Q. M	do	do	179 15	
	981	H. S. Weeks, Lieut., A. A. Q. M	do	do	2,026 55	
	982	A. B. Kauffman, Capt., A. A. Q. M	do	do	111 80	
	983	H. S. Weeks, Lieut., A. A. Q. M	do	do	52 80	
	984	S. P. Jocelyn, Capt., A. A. Q. M	do	do	46 65	
	985	J. W. Jacobs, Lieut., A. A. Q. M	do	do	21 00	
	986	G. B. Dandy, Capt., A. Q. M	do	do	411 23	
	987	F. S. Barstow, Capt., A. Q. M	do	do	78	
	988	C. A. Booth, Lieut., A. A. Q. M	do	do	17 76	
	989	W. I. Reed, Lieut., A. A. Q. M	do	do	11 16	
	990	A. O. Brodie, Lieut., A. A. Q. M	do	do	71 22	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875. 1st quarter	991	J. Montooth, late Lieut. 151st Ill.	Clothing and equipage	Quartermaster's dept.	\$19 45	
	992	W. F. Rice, Lieut., A. A. Q. M.	Horses	do	70 00	
	993	A. G. Robinson, Capt., A. Q. M.	do	do	1,172 00	
	994	J. G. C. Lee, Capt., A. Q. M.	do	do	910 00	
	995	J. A. Potter, Maj., D. Q. M. G.	do	do	1,026 50	
	996	T. G. Troxel, Lieut., A. A. Q. M.	do	do	637 20	
	997	F. S. Davidson, Lieut., A. A. Q. M.	do	do	32 80	
	998	I. Quinby, Lieut., A. A. Q. M.	do	do	161 00	
	999	M. I. Ludington, Maj., Q. M.	Railway material	do	620 97	
	1000	I. Quinby, Lieut., A. A. Q. M.	Quartermaster's stores	do	8 00	
	1001	J. B. Nixon, Lieut., A. A. Q. M.	Gov't wharf, Brazos Santiago	do	28 50	
	1002	W. Allen, Lieut., A. A. Q. M.	Quartermaster's stores	do	10 00	
	1003	H. B. Quimby, Lieut., A. A. Q. M.	Mules and horses	do	97 50	
	1004	D. C. Callinan, Lieut., A. A. Q. M.	Quartermaster's stores	do	86 90	
	1005	C. P. McTaggart, Lieut. 17th Inf.	do	do	67 50	
						\$8,093 56
	1006	A. Hartsuff, Asst. Surg.	Bedding	Medical	6 30	
	1007	T. J. Maghee, A. A. Surg.	Bedding, &c.	do	80	
	1008	B. F. Pope, Asst. Surg.	do	do	8 50	
	1009	S. M. Horton, Asst. Surg.	Medicines	do	25 55	
	1010	J. C. G. Happersett, Asst. Surg.	Instruments, &c.	do	47 50	
	1011	H. M. Matthews, Asst. Surg.	Bedding	do	25 00	
	1012	J. G. Braman, A. A. Surg.	Condemned property	do	6 64	
	1013	J. I. Milhan, Surgeon	Bedding	do	14 10	
	1014	T. B. Chase, Asst. Surg.	do	do	41 10	
						175 49
	1015	E. B. Carling, Capt., A. A. Q. M.	Grain-sacks	Quartermaster's dept.	37 15	
	1016	J. O'Hara, Lieut., A. A. Q. M.	Quartermaster's stores	do	40	
	1017	J. G. Chandler, Maj., Q. M.	Bran	do	2 00	
	1018	J. Simpson, Lieut., A. A. Q. M.	Quartermaster's stores	do	17 30	
	1019	A. G. Forse, Lieut., A. A. Q. M.	do	do	12 76	
	1020	W. Arthur, Lieut., A. A. Q. M.	do	do	261 00	
	1021	C. P. Rodgers, Lieut., A. A. Q. M.	do	do	24 60	
	1022	F. L. Shoemaker, Lieut., A. A. Q. M.	do	do	222 65	
	1023	D. F. Stiles, Lieut. 10th Inf.	do	do	4 19	
	1024	J. G. Leefe, Lieut., A. A. Q. M.	do	do	133 10	
	1025	E. B. Kirk, Capt., A. Q. M.	do	do	684 00	
	1026	E. B. Kirk, Capt., A. Q. M.	do	do	104 70	
	1027	E. M. Camp, Lieut., A. A. Q. M.	do	do	928 90	
	1028	H. J. Farnsworth, Lieut., A. A. Q. M.	do	do	485 00	
	1029	W. P. Martin, Capt., M. S. K.	do	do	47 85	
	1030	W. Allen, Lieut. 12th Inf.	do	do	26 11	
	1031	M. Barber, Lieut., A. A. Q. M.	do	do	3 40	
	1032	C. H. Warrens, Lieut., A. A. Q. M.	do	do	288 95	
	1033	C. M. Rockefeller, Lieut., A. A. Q. M.	do	do	259 20	
	1034	W. I. Reed, Lieut., A. A. Q. M.	do	do	63 09	
	1035	T. J. Eckerson, Capt., A. Q. M.	Gate, &c., Fredericksburg National Cemetery.	do	10 00	
						3,616 35
	1036	W. O. Avery, Chief Clerk Treas. Dept.	Waste paper.	Chief Clerk		424 50
	1037	R. W. Raymond, Commissioner	Books	Mining Commissioner		29 53
	1038	P. B. Hunt, Supv'r. Int. Rev.	Old stoves	Internal Revenue		22 50
	1039	J. F. Casey, Collector	Old stove	Customs	1 00	
	1040	B. H. Stephenson, D. A.	Old buildings, Cincinnati	do	1,521 44	
	1041	G. Weitzel, Maj. Engineers	Part of Fort Gratiot light-house reservation.	do	20,625 23	
						22,147 67
	1042	S. McCullough, Superintendent	Old material and tools	Mint	751 86	
	1043	O. H. La Grange, Superintendent	Old material	do	322 54	
						1,074 40
	1044	H. M. Hieskell, Pay Director	Castings, iron, junk, &c.	Yards and Docks		310 39
	1044	H. M. Hieskell, Pay Director	do	Ordnance		90 95
	1044	H. M. Hieskell, Pay Director	do	Equip't and Recruit'g		2,405 40
	1045	F. C. Cosby, Paymaster	Castings for engine	Steam Engineering		73 20
	1046	F. W. Lincoln & Co.	Charts and books	Navigation		700 00
	1047	D. A. Dennison	Horse	Secretary's office		35 15
	1048	J. Gibbon, Col. 7th Inf.	Ordnance stores	Ordnance	12 00	
	1049	J. A. Kress, Capt. Ord.	do	do	21 80	
	1050	W. A. Marye, Capt. Ord.	do	do	25 20	
	1051	C. A. Woodruff, Lieut. 7th Inf.	do	do	16 00	
	1052	G. Russell, Capt. 3d Cav.	do	do	11 75	
	1053	A. W. Corliss, Capt. 8th Inf.	do	do	20 00	
	1054	W. H. Rexford, Capt., O. S. K.	do	do	59 11	
	1055	W. H. Rexford, Capt., O. S. K.	do	do	3 00	
	1056	W. H. Rexford, Capt., O. S. K.	do	do	294 50	
	1057	W. H. Rexford, Capt., O. S. K.	do	do	65 85	
						529 21
	1058	W. P. Martin, Capt., M. S. K.	Clothing and equipage	Quartermaster's dept.		407 29
	1059	J. H. Janeway, Asst. Surg.	Bedding, &c.	Medical		21 30
	1060	G. R. Bacon, Lieut. 1st Cav.	Quartermaster's stores	Quartermaster's dept.	240 50	
	1061	F. Von Schrader, Lieut., A. A. Q. M.	do	do	502 25	
	1062	S. B. Holabird, Lieut. Col., D. Q. M. G.	do	do	318 50	
						1,061 25
	1361	J. McNutt, Lieut. Col. Ord.	Bedding, &c.	Medical	4 40	
	1362	P. Middleton, Asst. Surg.	do	do	5 70	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875. 1st quarter.	1363	J. P. Kimball, Asst. Surg	Bedding, &c	Medical	\$33 00	
	1364	R. H. Alexander, Surgeon	Two mess chests	do	1 00	
	1365	G. McC. Miller, Asst. Surg	Instruments	do	1 28	
	1366	J. W. Bayne, A. A. Surg	Bedding, &c	do	4 45	\$49 83
	1367	H. R. Jones, Lieut., A. A. Q. M	Clothing and equipage	Quartermaster's dept.	129 89	
	1368	J. G. C. Lee, Capt., A. Q. M	do	do	45 11	
	1369	Ira McNutt, Lieut., A. A. Q. M	do	do	1 55	
	1370	J. E. Porter, Lieut., A. A. Q. M	do	do	268 55	
	1371	C. B. Hall, Lieut., A. A. Q. M	do	do	35	
	1372	A. Barrett, Capt., M. S. K	do	do	629 22	
	1373	C. H. Tompkins, Lieut. Col., D. Q. M. G.	do	do	1,005 00	2,079 67
	1374	C. Comly, Capt. Ord	Ordinance stores	Ordinance	10 00	
	1375	W. T. Craycroft, Lieut. 7th Cav	do	do	30 40	
	1376	W. A. Marye, Capt. Ord	do	do	20 00	
	1377	W. H. Rexford, Capt., O. S. K	do	do	147 50	
	1378	S. M. Mills, Lieut. 5th Art	do	do	34 93	
	1379	J. E. Greer, Lieut. Ord	do	do	75 90	
	1380	J. G. Butler, Capt. Ord	do	do	1,485 30	
	1381	J. E. Greer, Lieut. Ord	do	do	19 45	
	1382	J. G. Butler, Capt. Ord	do	do	1,001 25	
	1383	F. Whyte, Capt., O. S. K	do	do	315 70	
	1384	J. S. Mason, Lieut. Col. 4th Inf	do	do	4 50	
	1385	J. A. Sheetz, Lieut. 4th Inf	do	do	6 15	
	1386	H. Flood, Ord. Sergt	do	do	221 50	
	1387	A. W. Kroutinger, Capt. 2d Inf	do	do	35	
	1388	D. McIntosh, Lieut. 7th Cav	do	do	3 00	
	1389	A. S. M. Morgan, Capt., O. S. K	do	do	60 00	3,435 93
	1390	I. Quinby, Lieut., A. A. Q. M	Horses	Quartermaster's dept.	828 00	
	1391	J. H. Lord, Lieut., A. A. Q. M	do	do	1,735 50	
	1392	A. Morton, Lieut., A. A. Q. M	do	do	44 50	
	1393	G. L. Luhn, Lieut., A. A. Q. M	do	do	62 00	
	1394	W. T. Craycroft, Lieut., A. A. Q. M	Lumber	do	12 00	
	1395	J. A. Fessenden, Lieut., A. A. Q. M	Quartermaster's stores	do	9 20	2,691 20
	1396	W. H. H. Benyaurd, Capt. Eng'rs	Tools	Engineer		40 00
	1397	G. G. Hunt, Maj., D. O	Window shades, &c	Refugees, Freedmen, and Abandoned Lands.		4 50
	1398	C. Keller, Lieut., A. A. Q. M	Quartermaster's stores	Quartermaster's dept.	2 40	
	1399	W. Lassiter, Lieut., A. A. Q. M	do	do	11 85	
	1400	C. H. Rockwell, Lieut., A. A. Q. M	Horses and mules	do	199 00	
	1401	J. Halloran, Lieut., A. A. Q. M	Quartermaster's stores	do	10 25	
	1402	T. M. Weine, Lieut. 19th Inf	do	do	6 94	
	1403	H. B. Sarson, Lieut., A. A. Q. M	do	do	24 40	
	1404	J. G. C. Lee, Capt., A. Q. M	do	do	56 14	
	1405	G. N. Whistler, Lieut., A. A. Q. M	do	do	12 92	
	1406	J. F. Mount, Lieut., A. A. Q. M	do	do	36 09	
	1407	L. H. Rucker, Lieut., A. A. Q. M	do	do	50 50	
	1408	S. M. Mills, Lieut. 5th Art	do	do	4 94	
	1409	O. Etting, Lieut., A. A. Q. M	Public animals	do	262 50	
	1410	G. B. Dandy, Capt., A. Q. M	Quartermaster's stores	do	2,676 00	
	1411	E. R. Theller, Lieut., A. A. Q. M	do	do	34 26	
	1412	T. B. Robinson, Lieut., A. A. Q. M	do	do	2 20	
	1413	T. B. Robinson, Lieut., A. A. Q. M	do	do	122 00	
	1414	C. B. Hall, Lieut., A. A. Q. M	do	do	18 15	
	1415	A. McIntyre, Lieut., A. A. Q. M	do	do	12 70	
	1416	W. T. Craycroft, Lieut., A. A. Q. M	do	do	736 95	
	1417	G. S. Hoyt, Lieut., A. A. Q. M	do	do	77 05	4,357 24
	1418	W. O. Avery, Chief Clerk Treas. Dept.	Waste paper	Chief Clerk		509 93
	1419	T. C. Acton, Superintendent	Blue vitriol	Mint	4,661 30	
	1420	O. H. La Grange, Superintendent	Old copper, spelter, &c	do	444 75	5,106 05
	1421	W. A. Simmons, Collector	Old paper, wool, &c	Customs	21 20	
	1422	L. Lee, jr., Collector	Old custom-house lot	do	1,812 80	
	1423	G. C. Stevens, Collector	Lumber, carpets, &c	do	291 43	2,125 43
	1424	F. H. Stickney, D. C., Navy Dept	Old furniture, &c	Secretary's office		224 59
	1425	W. W. Woodhull, Paymaster	Coal to officers	Ordinance		34 91
	1426	E. Mellach, P. A. Paymaster	Condemned stores	Prov's and Clothing		98 89
	1427	G. W. Beaman, Paymaster	do	Yards and Docks		159 35
	1428	L. Frigerio	Nautical Almanacs	Navigation		14 40
	1429	C. C. Jackson, Pay Director	Old material	Construc'n and Repair	131 85	
	1430	A. S. Kenny, Paymaster	Coke, &c., to officers	do	120 40	252 25
	1431	J. Newton, Lieut. Col. Eng'rs	Right of way to New York and Canada Railroad Company through reservation at Plattsburg.	Secretary of War		123 20
	1527	T. G. Troxel, Lieut., A. C. S	Subsistence stores	Commissary	7 71	
	1528	E. H. Totten, Lieut., A. C. S	do	do	1 50	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875.						
1st quarter.	1529	J. H. Baldwin, Lieut., A. C. S.	Subsistence stores	Commissary	\$0 50	
	1530	E. S. Beacom, Lieut., A. C. S.	do	do	15 34	
	1531	C. P. Eagan, Capt., C. S.	do	do	12 92	
	1532	C. H. Rockwell, Lieut., A. C. S.	do	do	461 22	
	1533	T. Van Schrader, Lieut., 12th Inf.	do	do	15 25	
	1534	W. F. Spurgin, Lieut., A. C. S.	do	do	9 40	
	1535	P. Leary, jr., Lieut., A. C. S.	do	do	2 50	
	1536	J. J. O'Connell, Lieut., A. C. S.	do	do	1 50	
	1537	J. G. Leefe, Lieut., A. C. S.	do	do	19 75	
	1538	T. B. Robinson, Lieut., A. C. S.	do	do	46 00	
	1539	J. Scott, Lieut., A. C. S.	do	do	65 06	
	1540	J. E. Porter, Lieut., A. C. S.	do	do	1 00	
	1541	H. Schreiner, Capt., A. C. S.	do	do	12 35	
	1542	J. Whitney, Lieut., A. C. S.	do	do	35 75	\$707 75
	1543	E. B. Gibbs, Lieut. 6th Inf.	Quartermaster's stores	Quartermaster's dept.	60 15	
	1544	G. H. Weeks, Capt., A. Q. M.	do	do	61 75	121 90
2d quarter.	669	C. Estes, Mayor, Augusta	Augusta arsenal	Ordnance	7,312 00	
	670	E. Ingersoll, Major, O. S. K.	Ordnance stores	do	128 71	
	671	D. M. Vance, Capt. 16th Inf.	do	do	50	
	672	C. Williams, Capt. 17th Inf.	do	do	35 37	
	673	J. S. Mason, Lieut. Col. 4th Inf.	do	do	5 00	
	674	W. Adams, Capt. O. S. K.	do	do	1,013 04	
	675	R. E. Johnston, Capt. 1st Inf.	do	do	7 80	
	676	S. Munson, Capt. 6th Inf.	do	do	99 68	
	677	W. H. Powell, Capt. 4th Inf.	do	do	5 40	
	678	J. M. Wittemore, Major Ord.	do	do	1 90	
	679	J. I. Rodgers, Capt. 2d Inf.	do	do	11 78	
	680	F. W. Benteen, Capt. 7th Cav.	do	do	5 00	
	681	J. M. Bell, Lieut. 7th Cav.	do	do	50	
	682	T. C. English, Lieut. Col. 2d Inf.	do	do	14 50	
	683	J. M. Bell, Lieut. 7th Cav.	do	do	17 70	
	684	E. C. Mason, Major 21st Inf.	do	do	25	
	685	T. F. Riley, Lieut. 21st Inf.	do	do	55	
	686	T. F. Riley, Lieut. 21st Inf.	do	do	1 00	
	687	L. S. Babbitt, Capt. Ord.	do	do	7 00	
	688	G. M. Brayton, Capt. 8th Inf.	do	do	5 40	
	689	E. W. Ward, Lieut. 5th Cav.	do	do	15 00	
	690	W. B. Royall, Major 5th Cav.	do	do	81 00	
	691	S. C. Kellogg, Capt. 5th Cav.	do	do	3 75	8,772 83
	692	J. W. Summerhayes, Lieut., A. C. S.	Subsistence stores	Commissary	457 32	
	693	B. Aldrich, Lieut., A. C. S.	do	do	11 00	
	694	C. P. Rodgers, Lieut., A. C. S.	do	do	6 54	
	695	R. G. Shaw, Lieut., A. C. S.	do	do	7 73	
	696	A. E. Smith, Lieut., A. C. S.	do	do	131 05	
	697	S. W. Groesbeck, Lieut., A. C. S.	do	do	269 13	
	698	A. E. Bates, Capt., A. A. Q. M.	do	do	126 62	
	699	J. M. Lee, Lieut., A. C. S.	do	do	7 55	
	700	M. L. Courtney, Lieut., A. C. S.	do	do	12 55	
	701	E. J. Stevens, Lieut., A. C. S.	do	do	209 25	1,238 74
	702	S. B. Holabird, Lieut. Col., D. Q. M. G.	Horses	Quartermaster's dept.	117 00	
	703	I. Quinby, Lieut., A. A. Q. M.	do	do	125 51	
	704	L. H. Rucker, Lieut., A. A. Q. M.	do	do	163 50	
	705	I. Quinby, Lieut., A. A. Q. M.	do	do	333 75	
	706	T. T. Knox, Lieut., A. A. Q. M.	do	do	23 00	
	707	J. G. Leefe, Lieut., A. A. Q. M.	do	do	740 00	
	708	A. E. Bates, Capt. 2d Cav.	do	do	231 00	
	709	J. H. Belcher, Capt., A. Q. M.	do	do	4 90	
	710	C. A. Booth, Lieut., A. A. Q. M.	do	do	284 53	
	711	C. P. McTaggart, Lieut., A. A. Q. M.	Quartermaster's stores	do	7 50	
	712	C. H. Warrens, Lieut., A. A. Q. M.	do	do	5 00	
	713	M. L. Courtney, Lieut., A. A. Q. M.	do	do	6 35	
	714	W. Stanton, Lieut., A. A. Q. M.	do	do	28 85	
	715	W. P. Van Ness, Lieut., A. A. Q. M.	do	do	36 75	
	716	E. P. Eckerson, Lieut., A. A. Q. M.	do	do	1 80	
	717	E. S. Beacom, Lieut., A. A. Q. M.	Clothing and equipage	do	106 96	
	718	E. K. Russell, Lieut., A. A. Q. M.	do	do	29 35	
	719	W. Krause, Lieut., 3d Inf.	do	do	04	
	720	J. H. Lord, Lieut., A. A. Q. M.	do	do	85	
	721	M. L. Courtney, Lieut., A. A. Q. M.	do	do	9 60	
	722	G. Ruhlen, Lieut., A. A. Q. M.	do	do	14 90	2,271 14
	723	W. S. Tremaine, Asst. Surg.	Bedding	Med cal	10 00	
	724	H. R. Porter, A. A. Surg.	do	do	7 60	
	725	J. V. De Hanne, Asst. Surg.	do	do	1 50	
	726	E. Swift, Surgeon	do	do	22 00	
	727	S. R. Whittall, Lieut., A. A. Q. M.	Instruments, &c.	do	5 70	46 80

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875. 2d quarter.	728	T. Roberts, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	\$10 00	
	729	C. H. Hoyt, Capt., A. Q. M.	Wood and hay	do.	77 00	
						\$87 00
	730	J. C. Thompson, Lieut. 3d Cav.	Stationery and furniture	Adj't General's office	62 05	
	731	A. F. Rockwell, Capt., A. Q. M.	Tools and stove	do.	7 30	
						69 35
	732	B. Alvord, Paymaster General	Horse	Pay department		21 60
	733	J. A. Smith, Maj. Engineers	Old iron, &c.	Engineer	2,049 59	
	734	J. A. Smith, Maj. Engineers	Coffee and beans	do.	29 74	
						2,079 33
	735	A. C. Taylor, Lieut. 2d Art.	Quartermaster's stores	Quartermaster's dept.	5 15	
	736	J. McGilvray, Lieut., A. A. Q. M.	do.	do.	34 56	
	737	J. L. Tiernon, Lieut., A. A. Q. M.	do.	do.	9 45	
	738	B. D. Greene, Lieut., A. A. Q. M.	do.	do.	4 42	
	739	T. T. Thornburg, Lieut., A. A. Q. M.	do.	do.	2 85	
	740	J. W. Dillenbeck, Lieut., A. A. Q. M.	do.	do.	2 21	
	741	W. A. Miller, Lieut., A. A. Q. M.	do.	do.	1 65	
	742	W. P. Van Ness, Lieut., A. A. Q. M.	do.	do.	39 99	
	743	I. Quinby, Lieut., A. A. Q. M.	do.	do.	131 44	
	744	S. E. Clarke, Lieut., A. A. Q. M.	do.	do.	2 60	
	745	C. G. Penney, Lieut., A. A. Q. M.	do.	do.	682 50	
	746	P. P. Barnard, Lieut., A. A. Q. M.	do.	do.	5 75	
	747	J. McE. Hyde, Lieut. 8th Inf.	do.	do.	117 56	
	748	H. S. Weeks, Lieut., A. A. Q. M.	do.	do.	1,130 36	
	749	O. B. Boyd, Lieut., A. A. Q. M.	do.	do.	323 25	
	750	E. W. Ward, Lieut. 5th Cav.	do.	do.	2 50	
	751	W. R. Quinan, Lieut., A. A. Q. M.	do.	do.	33 75	
	752	P. Leary, jr., Lieut., A. A. Q. M.	do.	do.	24 42	
	753	O. B. Mitcham, Lieut., A. A. Q. M.	do.	do.	17 24	
	754	W. I. Reed, Lieut., A. A. Q. M.	do.	do.	8 25	
	755	D. F. Callinan, Lieut., A. A. Q. M.	do.	do.	782 08	
	756	A. E. Bates, Capt., A. A. Q. M.	do.	do.	62 91	
	757	J. W. Bubb, Lieut., A. A. Q. M.	do.	do.	226 43	
	758	P. Hasson, Lieut., A. A. Q. M.	do.	do.	287 73	
	759	J. H. Belcher, Maj., A. Q. M.	do.	do.	1,241 60	
	760	T. W. Morrison, Lieut., A. A. Q. M.	do.	do.	691 48	
	761	J. Pratt, Lieut., A. A. Q. M.	Anvil and horses	do.	243 20	
	762	D. F. Stiles, Lieut., A. A. Q. M.	do.	do.	26 60	
	763	W. J. Sanborn, Lieut., A. A. Q. M.	do.	do.	56 75	
	764	S. B. Holabird, Lieut. Col., D. Q. M. G.	do.	do.	81 15	
	765	N. S. Constable, Capt., A. A. Q. M.	do.	do.	709 75	
	766	E. D. Baker, Capt., A. A. Q. M.	do.	do.	147 75	
	767	G. M. Love, Lieut., A. A. Q. M.	do.	do.	1 20	
	768	A. P. Blunt, Capt., A. A. Q. M.	do.	do.	36 42	
	769	P. M. Thorne, Lieut., A. A. Q. M.	do.	do.	30 65	
	770	J. V. Furey, Capt., A. A. Q. M.	do.	do.	143 52	
						7,349 12
	771	R. C. Morgan, D. C.	Laws	Department of State		8,898 41
	772	L. B. Eaton, Marshal	Stove-pipe	Department of Justice		5 00
	773	W. O. Avery, Chief Clerk Treas. Dept.	Old furniture	Chief clerk	103 00	
	774	W. O. Avery, Chief Clerk Treas. Dept.	do.	do.	25 00	
	775	W. O. Avery, Chief Clerk Treas. Dept.	Old carpet	do.	13 00	
						141 00
	776	J. A. Smith, Maj. Engineers	Steamer "Arbutus"	Light-house Board		4,424 30
	777	W. A. Simmons, Collector	Old paper and bagging	Customs	13 56	
	778	B. S. Burch, Collector	Two stoves	do.	15 36	
	779	J. F. Casey, Collector	Condemned furniture	do.	26 20	
	780	W. D. Nolen, Collector	Chairs, matting, &c.	do.	56 29	
						111 41
	781	J. McArthur, jr., Sup't.	Government property	Court-house and post office, Pa.		2,727 52
	782	F. C. Cosby, Paymaster U. S. N.	Material for repair of boiler	Steam Engineering		151 73
	783	H. T. Skelding, P. A. Paymaster	U. S. storeship "Idaho"	Construc'n and Repair		18,642 05
	784	J. C. Eldredge, Pay Director	Provisions	Prov's and Clothing	37 22	
	785	E. Foster, Pay Inspector	do.	do.	68 88	
						106 10
	786	J. H. C. Coffin	Nautical publications	Navigation	484 95	
	787	J. H. C. Coffin	do.	do.	150 00	
						634 95
	1170	S. Monson, Capt. 9th Inf.	Ordnance stores	Ordnance	92	
	1171	M. P. Miller, Capt. 4th Art.	do.	do.	3 90	
	1172	J. D. DeRus y, Capt. 1st Inf.	do.	do.	23 10	
	1173	R. H. Young, Lieut. 4th Inf.	do.	do.	18 00	
	1174	A. H. M. Taylor, Lieut. 19th Inf.	do.	do.	18 99	
	1175	W. Tear, Lieut. 25th Inf.	do.	do.	8 20	
	1176	C. Comly, Capt. Ord.	do.	do.	39 90	
						113 01
	1177	F. W. Mansfield, Lieut., A. A. Q. M.	Horses	Quartermaster's dept.	923 00	
	1178	I. Quinby, Lieut., A. A. Q. M.	do.	do.	287 00	
	1179	E. B. Rheem, Lieut., A. A. Q. M.	Animals	do.	374 00	
						1,584 00
	1180	W. D. Wolverton, Asst. Surg.	Instruments, &c.	Medical	2 50	
	1181	C. C. Byrne, Surgeon	Bedding and furniture	do.	4 50	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875. 2d quarter.	1182	C. E. Goddard, Surgeon	Instruments, &c.	Medical	\$5 80	
	1183	E. B. Mosely, Asst. Surg	do	do	1 00	
	1184	A. L. Flint, A. A. Surg	do	do	39 00	
	1185	J. H. Frantz, Surgeon	Furniture, &c.	do	19 55	
	1186	D. Weisel, Asst. Surg	do	do	28 32	
	1187	C. F. Knoblanck, A. A. Surg	Bedding	do	3 00	
	1188	J. O'Hara, Lieut. 3d Art	Instruments, &c.	do	1 00	
	1189	C. Carvallo, Asst. Surg	do	do	24 00	
	1190	J. P. Wright, Surgeon	Bedding	do	1 40	
						\$130 07
	1191	H. J. Farnsworth, Lieut., A. C. S.	Subsistence stores	Commissary	68 69	
	1192	A. G. Hennisee, Lieut., A. C. S.	do	do	151 95	
						220 64
	1193	J. M. Moore, Maj., Q. M.	Animals	Quartermaster's dept.	9,870 55	
	1194	J. M. Moore, Maj., Q. M.	do	do	2 45	
	1195	J. Belger	Quartermaster's stores	do	58 64	
	1196	A. G. Robinson, Capt., A. Q. M.	do	do	1,141 51	
						11,073 15
	1197	C. B. Comstock, Maj. Engineers	Two small boats	Engineer		16 00
	1198	R. L. Fogg, Superintendent	Old shop, tools, &c., Dix island	Secretary's office		551 36
	1199	W. L. Higgins, Superintendent	Derrick and tools	Custom-house, Portland, Oregon.		495 81
	1200	R. W. Daniels, Collector	Old wall	Custom-house, Buffalo, N. Y.		27 10
	1201	C. G. Manning, Collector	Custom-house, Plymouth, N. C.	Customs	510 00	
	1202	W. D. Nolen, Collector	Furniture	do	11 08	
	1203	R. H. Stephenson, Surveyor	do	do	7 35	
	1204	J. F. Long, Surveyor	do	do	2 00	
	1205	J. P. Luse, Surveyor	do	do	19 05	
						549 48
	1206	H. M. Robert, Major	Furniture	Light-house Board		552 42
	1207	R. C. Morgan, Chief Bureau Accounts	do	State Department		50 00
	1208	E. Painter, Indian Agent	Wood, wheat, and brick	Indian Affairs		532 09
	1209	H. M. Hieskell, Pay Director	Condemned stores	Navigation		479 25
	1210	C. P. Wallach, Pay Inspector	Ordnance stores	Ordnance		97 18
	1211	E. Mellach, Paymaster	Condemned stores	Secretary's office		10 48
	1211	E. Mellach, Paymaster	do	Prov's and Clothing		5 50
	1668	W. D. Smith and others	North Carolina arsenal site	Ordnance	1,143 75	
	1669	W. Tear, Lieut. 25th Inf.	Ordnance stores	do	02	
	1670	J. A. Kress, Capt. Ord.	do	do	675 30	
	1671	J. Gibbon, Col. 7th Inf.	do	do	14 00	
	1672	W. A. Marye, Capt. Ord.	do	do	161 30	
	1673	E. Ingersoll, Maj., O. S. K.	do	do	144 28	
	1674	S. E. Blunt, Lieut. Ord.	do	do	153 80	
	1675	W. Adams, Capt., O. S. K.	do	do	13 00	
	1676	J. J. Coppinger, Capt. 20th Inf.	do	do	9 00	
	1677	W. R. Shoemaker, Capt., O. S. K.	do	do	61 10	
	1678	J. S. Payne, Lieut. 5th Cav.	do	do	12 50	
	1679	W. H. Rexford, Capt., O. S. K.	do	do	27 38	
	1680	W. H. Rexford, Capt., O. S. K.	do	do	32 50	
						2,447 93
	1681	T. T. Cabaniss, Asst. Surg	Bedding and furniture	Medical	71 75	
	1682	J. H. Barthoff, Capt., Surg	do	do	5 50	
	1683	W. Deale, A. A. Surg	do	do	2 75	
	1684	J. M. Dickson, Asst. Surg	do	do	28 57	
	1685	C. De Witt, Asst. Surg	do	do	5 92	
	1686	C. Sutherland, A. M. Pur.	Bedding and stores	do	74 29	
	1687	H. R. Porter, late A. A. S.	Instruments and bedding	do	32 38	
	1688	J. K. Corson, Asst. Surg	do	do	28 40	
	1689	R. H. McKay, A. A. S.	Bedding and furniture	do	47 82	
	1690	H. S. Furrill, A. A. S.	do	do	46 50	
	1691	C. Styer, Asst. Surg	Books, bedding, &c	do	25 89	
						369 77
	1692	J. M. Moore, Q. M.	Clothing and equipage	Quartermaster's dept.	453 81	
	1693	W. F. Spurgin, Lieut., A. A. Q. M.	do	do	2 60	
	1694	E. R. Theller, Lieut., A. A. Q. M.	Animals	do	153 43	
	1695	G. H. Weeks, Capt., A. Q. M.	do	do	117 00	
	1696	R. M. Taylor, Lieut., A. A. Q. M.	Wagon	do	9 00	
	1697	S. B. Holabird, Lieut. Col., D. Q. M. G.	Quartermaster's stores	do	1,540 00	
	1698	E. B. Rheem, Lieut. 21st Inf.	Animals	do	11 80	
	1699	T. T. Knox, Lieut., A. A. Q. M.	Condemned mule	do	1 50	
	1700	S. R. Whitall, Lieut., A. A. Q. M.	Quartermaster's stores	do	9 50	
	1701	G. C. Smith, Capt., A. Q. M.	Horses	do	488 00	
	1702	W. Gerlach, Lieut., A. A. Q. M.	do	do	141 00	
	1703	J. L. Tiernon, Lieut., A. A. Q. M.	do	do	5 77	
	1704	J. Whitney, Lieut., A. A. Q. M.	Quartermaster's stores	do	1,024 75	
	1705	J. L. Tiernon, Lieut., A. A. Q. M.	do	do	109 60	
	1706	B. K. Roberts, Lieut., A. A. Q. M.	do	do	4 14	
	1707	B. Wager, Lieut., A. A. Q. M.	do	do	1 00	
	1708	W. A. Miller, Lieut., A. A. Q. M.	do	do	4 30	
	1709	H. H. Benner, Lieut., A. A. Q. M.	do	do	10 11	
	1710	A. H. Merrill, Lieut., A. A. Q. M.	do	do	7 65	
	1711	W. Gerlach, Lieut., A. A. Q. M.	do	do	518 00	

Statement of proceeds of Government property, &c.—Continued.

When covered into Treasury.	No. of warrant.	By whom sold.	Kind of property sold.	Bureau in charge of property.	Amount of each kind of property.	Total amount.
1875 2d quarter.	1712	J. M. Ingalls, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	\$81 30	
	1713	F. Thiess, Lieut., A. A. Q. M.	do.	do.	25 20	
	1714	F. W. Roe, Lieut., A. A. Q. M.	do.	do.	22 35	
	1715	S. R. Whitall, Lieut., A. A. Q. M.	do.	do.	12 00	
	1716	E. A. Godwin, Lieut., A. A. Q. M.	do.	do.	63 75	
	1717	G. H. Kenzie, Lieut., A. A. Q. M.	do.	do.	321 25	
	1718	W. P. Martin, Capt., M. S. K.	do.	do.	1,128 00	
	1719	A. B. Kauffman, Capt., A. A. Q. M.	do.	do.	356 65	
	1720	P. Leary, jr., Lieut., A. A. Q. M.	do.	do.	4 55	
	1721	L. C. Forsyth, Capt., A. Q. M.	do.	do.	1,051 15	
	1722	C. W. Foster, Capt., A. Q. M.	do.	do.	161 08	
	1723	E. Z. Steever, Lieut., A. A. Q. M.	do.	do.	85 65	
	1724	S. M. Swigart, Lieut., A. A. Q. M.	do.	do.	41 95	
	1725	G. F. Chase, Lieut., A. A. Q. M.	do.	do.	121 00	
	1726	J. M. Moore, Maj., Q. M.	do.	do.	1,130 48	
	1727	E. B. Kirk, Capt., A. Q. M.	do.	do.	2,159 70	
	1728	W. S. Scott, Lieut., A. A. Q. M.	do.	do.	52 03	
	1729	A. C. Markley, Lieut., A. A. Q. M.	do.	do.	39 53	
	1730	G. Barrett, Lieut., A. A. Q. M.	do.	do.	126 00	
	1731	C. A. Varnum, Lieut., A. A. Q. M.	do.	do.	1 25	
	1732	E. D. Baker, Capt., A. Q. M.	do.	do.	50	
	1733	T. W. Lord, Lieut., A. A. Q. M.	do.	do.	1 20	
	1734	E. B. Grimes, Capt., A. Q. M.	Flagstaff and fence	do.	28 55	
	1735	C. B. Comstock, Maj. Eng.	Boat, camp equipage, &c.	Engineer		\$11,628 08
	1736	Paymaster General, U. S. A.	Horse	Paym'r Gen.'s office.		85 00
	1737	J. R. Roche, late D. C. War Dept.	Carpet	Office of Secretary War.		36 90
	1738	W. O. Avery, Chief Clerk Treas. Dept.	Carpet, desks, &c.	Chief clerk	421 18	95 81
	1739	W. O. Avery, Chief Clerk Treas. Dept.	Waste paper	do.	613 66	
	1740	J. C. P. Kincaid, Custodian	Old buildings at Utica, N. Y.	Secretary's office.	500 00	1,034 84
	1741	A. G. Hoyt, Custodian	Furniture	do.	21 00	
	1742	M. F. Bonzano, Superintendent	Old iron	Mint	54 00	521 00
	1743	T. C. Acton, Superintendent	Blue vitriol, &c.	do.	7,360 97	
	1744	Wm. A. Simmons, Collector	Marble, scrap iron, &c.	Customs	831 15	7,414 97
	1745	J. P. Luse, Collector	Furniture	do.	1 50	
	1746	W. L. Higgins, Superintendent	Old tile	Custom-house, Portland, Oregon.		832 65
	1747	L. Lee, jr., Collector	Custom-house lot, Norfolk	Customs		51 40
	1748	H. M. Robert, Maj. Eng.	L.-H. tender, "Belle Stevens"	Light-house Board		1,760 00
	1749	R. C. Morgan, D. C.	Laws	Department of State		372 95
	1750	R. Joseph, D. C.	Waste paper, carpets, &c.	Interior Department		7,922 34
	1751	C. Adams, late Indian Agent	Lumber and wood	Indian Office	884 98	145 48
	1752	C. Maltby, late Indian Agent	Farm equipments	do.	389 97	
	1753	T. H. Scanlon, Postmaster	Furniture, Galveston office	Post Office Department		1,274 95
	1754	W. W. Woodhull, Paymaster	Coal	Ordinance	9 99	200 00
	1755	F. C. Cosby, Paymaster	Material for making gauge	do.	17 75	
	1785	N. S. Constable, Capt., A. Q. M.	Horses	Quartermaster's dept.	239 50	27 74
	1786	C. B. Hall, Lieut., A. A. Q. M.	Clothing and equipage	do.	1 70	
	1787	F. F. Flint, Col. 4th Inf.	Ordinance stores	Ordinance	18 00	241 20
	1788	R. H. Day, Lieut. 16th Inf.	do.	do.	78 48	
	1789	C. R. Tyler, Lieut., A. A. Q. M.	Quartermaster's stores	Quartermaster's dept.	6 35	96 48
	1790	J. C. Clifford, Captain	do.	do.	3 55	
	1791	F. B. Jones, Lieut., A. A. Q. M.	do.	do.	39 25	
	1792	C. B. Hall, Lieut., A. A. Q. M.	do.	do.	8 55	
	1793	L. P. Brant, Lieut., A. A. Q. M.	do.	do.	240 75	
	1794	C. Keller, Lieut., A. A. Q. M.	do.	do.	8 65	
	1796	A. Barrett, Capt., M. S. K.	Clothing and equipage	do.	1,270 29	
						1,577 39

STATEMENT SHOWING UNEXPENDED BALANCES OF APPROPRIATIONS JUNE 30, 1875; THE APPROPRIATIONS FOR THE FISCAL YEAR ENDING JUNE 30, 1876; THE EXPENDITURES FOR THE QUARTER ENDED SEPTEMBER 30, 1875; THE ESTIMATED AMOUNTS THAT MAY BE REQUIRED TO COMPLETE THE SERVICE OF THE YEAR, OR OF PRIOR YEARS, OR THAT MAY BE CARRIED TO THE SURPLUS FUND, REQUIRED BY THE 8TH SECTION OF ACT OF MAY 1, 1820.—(R. S., PAGE 727, SEC. 3670.)

A.—Statement showing the balances of appropriations July 1, 1875, made for the service of the fiscal year ended June 30, 1875, and prior years; and the appropriations made for the service of the fiscal year ending June 30, 1876, not limited by law to fiscal years. Also, the amounts available for expenditure during the current fiscal year, the amounts expended during the first quarter of the same, and the estimated amounts required for the remaining three quarters.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
LEGISLATIVE.						
Reporting proceedings of debates, Senate	\$8,125 12	.....	\$8,125 12	.....	\$8,125 00	\$0 12
Joint Select Committee to frame a suitable form of government for the District of Columbia	274 99	.....	274 99	.....	.....	274 99
Salary telegraph operator	210 75	.....	210 75	.....	.....	210 75
Investigation in regard to elections in Kansas, Louisiana, and Arkansas	16,630 87	.....	16,630 87	.....	.....	16,630 87
Monuments to Representatives, Congressional Cemetery ..	.....	\$1,500 00	1,500 00	.....	.....	1,500 00
Total Legislative	25,241 73	1,500 00	26,741 73	.....	8,125 00	18,616 73
DEPARTMENT OF STATE.						
FOREIGN INTERCOURSE.						
Inquiries into depredations on Texan frontier	\$1,775 03	.....	\$1,775 03	.....	.....	\$1,775 03
Tribunal of arbitration at Geneva	65,706 70	.....	65,706 70	.....	.....	65,706 70
Survey of boundary between United States and British Possessions	50,135 00	.....	50,135 00	.....	\$10,000 00	40,135 00
Commission to determine boundary between United States and British Possessions	5,000 00	.....	5,000 00	.....	.....	5,000 00
International Exposition at Vienna	44,889 34	.....	44,889 34	.....	3,345 48	41,543 86
Estates of decedents, (trust fund)	39,114 24	.....	39,114 24	\$200 18	.....	39,314 42
Payment to Government of Japan for rent of lands or buildings	296 75	.....	296 75	.....	.....	296 75
Expenses attending visit of the King of Hawaiian Islands ..	5,020 04	.....	5,020 04	.....	.....	5,020 04
Awards under convention with King of the French	4,945 94	.....	4,945 94	.....	.....	4,945 94
Awards under convention with Mexican Republic	2,250 47	.....	2,250 47	.....	.....	2,250 47
Claims on Spain	2,427 31	.....	2,427 31	.....	.....	2,427 31
Indemnity received from Brazil under convention with Emperor	8,741 78	.....	8,741 78	.....	.....	8,741 78
Awards under convention between United States and Peru concluded at Lima	4,890 79	.....	4,890 79	.....	.....	4,890 79
Awards under 15th article treaty between United States and Mexico	78,573 89	.....	78,573 89	.....	.....	78,573 89
Commissioner to International Penitentiary Congress, Rome .....	.....	\$8,000 00	8,000 00	.....	.....	8,000 00
Salaries and expenses, Court of Commissioners Alabama Claims .....	.....	.....	.....	.....	a27,960 20	.....
Total Department of State	313,767 28	8,000 00	321,767 28	200 18	41,305 68	308,621 98
TREASURY DEPARTMENT.						
PUBLIC WORKS.						
Building for State, War, and Navy Departments, south wing	\$187,765 63	.....	\$187,765 63	.....	\$105,953 13	\$81,812 50
Building for State, War, and Navy Departments, east wing ..	467,234 37	.....	467,234 37	.....	145,000 00	322,234 37
Branch-Mint building, San Francisco, Cal	94,137 14	.....	94,137 14	.....	55,404 76	38,732 38
Treasury building, Washington, D. C	40,117 20	.....	40,117 20	.....	35,000 00	5,117 20
Post office and sub-treasury, Boston, Mass	270,596 51	.....	270,596 51	.....	99,050 46	171,546 05
Post office and court-house, New York	273,847 76	.....	273,847 76	.....	205,149 16	68,698 60
Post office and court-house, Indianapolis, Ind	12,238 03	.....	12,238 03	.....	4,578 00	7,660 03
Court-house at Madison, Wis	144 06	.....	144 06	.....	.....	144 06

a Indefinite.

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Court-house and post office—						
Omaha, Neb	\$16,742 74		\$16,742 74		\$13,234 26	\$3,508 48
Columbia, S. C	33,935 84		33,935 84		32,113 48	1,822 36
Topeka, Kansas		\$10,000 00	10,000 00			10,000 00
Little Rock, Ark	74,270 75		74,270 75		6 75	74,264 00
Raleigh, N. C	153,678 33		153,678 33		26,773 90	126,904 43
Utica, N. Y	38,973 68		38,973 68		86 29	38,887 39
Philadelphia, Pa	537,705 04		537,705 04		169,242 27	368,462 77
Trenton, N. J	109,634 48		109,634 48		51,093 47	58,541 01
Atlanta, Ga	159,333 51		159,333 51		946 40	158,387 11
Covington, Ky	124,001 45	150,000 00	274,001 45		3,012 50	270,988 95
Lincoln, Neb	89,859 61		89,859 61		842 12	89,017 49
Dover, Del	29,426 55		29,426 55		278 00	29,148 55
Post office at Parkersburg, W. Va	52,300 40		52,300 40		35,262 64	17,037 76
Post office at Jersey City, N. J	99,428 00		99,428 00			99,428 00
General Post Office building, Washington, D. C	106,683 86		106,683 86		65,000 00	41,683 86
Sub-treasury building, San Francisco, Cal	56,219 00		56,219 00		8,334 10	47,884 90
Court-house and post office, Grand Rapids, Mich	50,003 99		50,003 99		10 00	49,993 99
Court-house and post office, Pittsburg, Pa	300,000 00		300,000 00			300,000 00
Assay Office building at Helena, Montana	45,924 75		45,924 75		2,548 75	43,376 00
Post office at Harrisburg, Pa		160,000 00	160,000 00			160,000 00
Plans and specifications public building at Auburn, N. Y		4,000 00	4,000 00			4,000 00
Custom-house—						
And post office, Rockland, Maine	2,578 21				2,578 21	
And post office, Fall River, Mass	107,143 35				3,087 38	104,055 97
And post office, Newport, R. I	10,185 06				8,091 28	2,093 78
And post office, Hartford, Conn	72,848 94				40,709 64	32,139 30
New Haven, Conn	18,646 20				5,000 00	13,646 20
And post office, Ogdensburg, N. Y	3,000 00					3,000 00
And post office, Albany, N. Y	99,299 10					99,299 10
Charleston, S. C	198,773 26				10,620 30	188,152 96
New Orleans, La	137,731 83				18,061 35	119,670 48
And post office, Cincinnati, Ohio	1,173,197 40				194,736 85	978,460 55
Court-house, and post office, Evansville, Ind	97,429 51				13,346 12	84,083 39
And sub-treasury, Chicago, Ill	932,663 37			\$46,280 80		978,944 17
Cairo, Ill	1,935 47					1,935 47
Louisville, Ky	12,500 00				6,000 00	6,500 00
And post office, Nashville, Tenn	149,614 00				3,691 00	145,923 00
Knoxville, Tenn	42 64				29 65	12 99
Court-house, and post office, Memphis, Tenn	74,800 00					74,800 00
And post office, Port Huron, Mich	279,553 25				20,339 50	259,213 75
Milwaukee, Wis	19 47					19 47
And post office, St. Louis, Mo	485,491 55				252,265 59	233,225 96
Portland, Oregon	11,307 12				105 64	11,201 48
Appraisers' stores, San Francisco, Cal	230,350 27				17,458 87	212,891 40
MISCELLANEOUS.						
Refunding national debt					a 12,519 97	
Defending claims for cotton seized	1,029 77		1,029 77		976 00	53 77
Salaries, steamboat-inspection service	211,758 74		211,758 74		43,000 00	168,758 74
Contingent expenses, steamboat-inspection service	65,228 70		65,228 70		17,584 40	47,644 30
Outstanding liabilities	209,081 60		209,081 60	19,257 62		228,339 22
Repayment for lands sold for direct taxes					a 985 00	
Expenses of Smithsonian Institution	448,358 49		448,358 49		19,500 00	428,858 49
Return of proceeds of captured and abandoned property					a 672,622 85	
Purchase and management of Louisville and Portland canal	1,142,205 69		1,142,205 69			1,142,205 69
Inquiries into cause of steam-boiler explosions	31,525 99		31,525 99		16,000 00	15,525 99
To make good interest on stock of the State of Arkansas, held in trust by Secretary of the Treasury for Chickasaw Indians	5,400 00		5,400 00			5,400 00
Trust fund for support of free schools in South Carolina	393 85		393 85			393 85
Reissuing national currency, (reimbursable)	490,726 74		490,726 74			490,726 74
Payments to creditors of Texas	101,113 27		101,113 27			101,113 27
Payments of interest on 3-65 bonds, District of Columbia	27,945 36	185,000 00	212,945 36		212,945 36	
Engraving and printing certificates Centennial stock		30,750 00	30,750 00		15,433 33	15,316 67
Refunding proceeds of cotton seized					a 14,460 00	
One month's additional pay to clerks and employes					a 10,000 00	
Two months' additional pay to discharged clerks and employes				9,710 14		9,710 14
Fees for supervisors of elections					a 117,768 13	
Salaries and expenses, Southern Claims Commission					a 11,200 00	
Costs adjudged against eastern band of Cherokees	5,555 75		5,555 75		600 00	4,955 75
Relief of—						
Terre Haute and Indianapolis Railroad	7,543 75		7,543 75		7,543 75	
Allegheny Valley Railroad Company	7,232 75		7,232 75		7,232 75	
J. T. Mason	1,000 00		1,000 00			1,000 00

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Purchase and restoration to the family of the Marquis de la Fayette of watch presented to him by General Washington	\$59 00		\$59 00			\$59 00
Payment to R. A. Connolly amount of draft destroyed at Chicago	5 18		5 18			5 18
Payment to C. Morgan for general average on ship Alabama		\$3,000 00	3,000 00		\$3,000 00	
Payment to Captain R. B. Lacey, late captain and acting quartermaster of volunteers		1,043 91	1,043 91		1,043 91	
Medals to Captain J. S. Crandall and others	1,425 25		1,425 25		1,425 25	
CUSTOMS SERVICE.						
Collecting revenue from customs	22,677 21	5,500,000 00			2,454,458 68	3,068,218 53
Collecting revenue from customs, transfer account				\$2,616 93		2,616 93
Building or purchase of such vessels as may be required for revenue service	15,401 85			10,600 60		26,002 45
Unclaimed merchandise					a272 84	
Compensation of persons employed in insurrectionary States					a638 15	
Refunding moneys erroneously received and covered into the Treasury					a42 49	
Repayment to importers excess of deposits					a570,008 93	
Debentures and other charges					a2,273 52	
Debentures or drawbacks, bounties or allowances					a1,274,509 86	
MARINE-HOSPITAL SERVICE.						
Marine-hospital service	364,481 05				108,481 84	255,999 21
Marine hospital, San Francisco, Cal.	6,601 82				6,559 41	42 41
Marine hospital, Pittsburg, Pa.				7,305 49		7,305 49
LIGHT-HOUSE ESTABLISHMENT.						
Seguin Island steam fog-signal, Maine	4,000 00					4,000 00
Avery's Rock light-station, Maine	6,690 48				6,690 48	
Egg Rock light-station, Maine	6,690 49				6,690 49	
Fog-signals on light-ship, Vineyard sound, Mass.	10,000 00					10,000 00
Bullock's Point Shoals light-station, R. I.	8,500 00					8,500 00
Fuller's Rock and Sassafras Point light-station, R. I.	5,000 00					5,000 00
Castle Hill fog-signal	10,000 00					10,000 00
Race Rock light-station, Conn.	79,716 49					79,716 49
Southwest Ledge light-station, Conn.	27,985 00					27,985 00
Hart Island light-station, Long Island, N. Y.	26,589 55					26,589 55
Thirty-mile Point light-station, N. Y.	14,500 00				9,500 00	5,000 00
Sandy Hook light-station, N. Y.	4,000 00				4,000 00	
Stratford Shoals light-station, Long Island sound	120,028 46				20,075 00	99,953 46
Stepping Stones day-beacon, Long Island sound	6,000 00					6,000 00
Fog-signals on light-ship, Long Island sound	5,000 00					5,000 00
Cold Spring Harbor light-station, N. Y.	20,000 00					20,000 00
Dunkirk light-station, N. Y.	12,200 00				5,000 00	7,200 00
Wreck-of-Scotland light-ship, New York harbor, N. J.	40,000 00					40,000 00
Presque Isle depot, Pa.	8,000 00					8,000 00
Schuylkill River light-station, Pa.	12,000 00				10,000 00	2,000 00
Bulkhead Shoals light-station, Del.	45,657 13					45,657 13
Ship John Shoal light-station, Del.	18,619 20					18,619 20
Cross Ledge Shoal light-station, Del.	35,528 78				35,528 78	
Pea Patch Island light-station, Del.	8,000 00					8,000 00
Cape Henlopen fog-signal, Del.	12,000 00					12,000 00
Liston's Tree light-station, Del.	70,000 00					70,000 00
Craighill Channel light-station, Chesapeake bay, Md.	1,755 75				375 00	1,380 75
Thomas's Point Shoals light-station, Md.	24,726 34				10,000 00	14,726 34
Day-beacons, Potomac river, Md.	11,870 30					11,870 30
Winter-quarter Shoals light-ship, Va.	6,800 00				6,800 00	
Mathias Point light-station, Va.	32,845 85					32,845 85
Jordan's Point light-station, Va.	500 00					500 00
Currituck Beach light-station, N. C.	35,000 00				88 80	34,911 20
Oak Island light-station, N. C.	4,000 00					4,000 00
Roanoke Marshes light-station, N. C.	6,929 18					6,929 18
Hunting Island light-station, S. C.	12,500 00				5,000 00	7,500 00
Morris Island light-station, S. C.	69,692 54				10,000 00	59,692 54
Castle Pinckney light-station, S. C.	2,000 00					2,000 00
Tybee Knoll light-station, Ga.	12,980 82					12,980 82
Florida Reef beacons, Fla.	10,001 00					10,001 00
Repairs of iron light-houses, Fla.	25,000 00				2,000 00	23,000 00
St. Andrew's Bay light-station, Fla.	21,000 00					21,000 00
Sand Key light-station, Fla.	15,000 00					15,000 00
Fowey Rocks light-station, Fla.	145,155 10				2,500 00	142,655 10

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Dog Island light-station, Fla.....	\$16,991 59					\$16,991 59
Dry Tortugas light-station, Fla.....	75,000 00					75,000 00
Dry Tortugas Harbor light-station, Fla.....	5,000 00					5,000 00
Southwest Pass depot, La.....	10,000 00					10,000 00
Calcasieu light-station, La.....	14,000 00				\$500 00	13,500 00
Trinity Shoals light-station, La.....	3,000 00					3,000 00
Head of Passes buoy depot, Mississippi river, La.....	3,500 00				3,500 00	
Proctorsville light-station, La.....	4,014 90					4,014 90
Tchefuncti River light-station, La.....	3,500 00				3,500 00	
Brazos Island light-station, Texas.....	25,000 00					25,000 00
Ashtabula light-station, Ohio.....	2,400 00					2,400 00
Conneaut light-station, Ohio.....	500 00				500 00	
Grand River light-station, Ohio.....	800 00				800 00	
Maumee Bay day-beacons, Ohio.....	13,650 00					13,650 00
Sandusky Bay light-station, Ohio.....	19,900 00					19,900 00
Chicago light-station, Ill.....	1,200 00				1,200 00	
Detroit depot, Mich.....	5,000 00				5,000 00	
Pier-head beacon-lights on the lakes, Mich.....	28,812 50				5,400 00	23,412 50
Eagle Harbor light-station, Mich.....	8,000 00					8,000 00
Port Austin light-station, Mich.....	4,076 80					4,076 80
White River light-station, Mich.....	10,000 00				9,000 00	1,000 00
South Manitou light-station, Mich.....	2,500 00				2,500 00	
Windmill Point light-station, Mich.....	15,000 00				15,000 00	
Tawas light-station, Mich.....	30,000 00				5,000 00	25,000 00
Saginaw River light-station, Mich.....	22,500 00				5,000 00	17,500 00
Passage Island light-station, Mich.....	18,000 00					18,000 00
Skilligalee light-station, Mich.....	5,000 00				5,000 00	
Light-ship, mouth of Detroit river, Mich.....	20,000 00					20,000 00
Piedras Blancas light-station, Cal.....	15,000 00				9,998 98	5,001 02
Yerba Buena Island light-station, Cal.....	5,000 00				5,000 00	
Point Reyes light-station, Cal.....	3 00					3 00
San Pablo Straits light-station, Cal.....				\$2,513 50		2,513 50
Point Montara light-station, Cal.....				1 73		1 73
Hueneme Point light-station, Cal.....				8 25		8 25
Point Fermin light-station, Cal.....				11 14		11 14
Columbia River light-station, Oregon.....	1,816 74					1,816 74
Point-no-Point light-station, Wash. Ter.....	13,229 31					13,229 31
Establishment of life-saving stations, coast of Long Island and New Jersey.....	61,347 17					61,347 17
Re-establishing lights on southern coast.....				2,070 09		2,070 09
Re-establishing lights on southern coast, transfer account.....				536 88		536 88
Steam-tender for the seventh district.....	50,000 00					50,000 00
Light-house tender, tenth district.....	57 89					57 89
Depot for the thirteenth district.....	10,000 00					10,000 00
Establishment of new life-saving stations.....	329,774 36				6,906 47	322,867 89
Establishment of new life-saving stations, coast of the United States.....	1,186 79				120 00	1,066 79
Establishment of new life-saving stations, Long Isl'd Sound.....		\$10,000 00			46 79	9,953 21
Repairing the tender "Haze".....	30,000 00					30,000 00
Light-ship for general service.....	4,300 00				1,909 12	2,390 88
Lighting and buoyage of Mississippi, Ohio, and Missouri rivers.....	100,000 00				43,000 00	57,000 00
INTERNAL REVENUE.						
Allowance or drawback.....					a8,582 10	
Refunding taxes illegally collected.....					a462,661 69	
Redemption of stamps.....					a5,398 18	
Refunding moneys erroneously received and covered into the Treasury.....					a16 73	
Relief of George W. Dawson.....	72 00		\$72 00			
Contingent expenses national currency, Treasurer's office, (reimbursable).....					a1,175 00	
Total Treasury Department.....	12,733,660 00	6,053,793 91	6,725,658 47	100,913 17	7,999,091 85	14,054,338 67
WAR DEPARTMENT.						
FORTS AND FORTIFICATIONS.						
Fort Independence, Mass.....	\$9,000 00		\$9,000 00			\$9,000 00
Fort Warren, Mass.....	12,000 00		12,000 00		\$12,000 00	
Fort Winthrop, Mass.....	15,455 00		15,455 00		10,000 00	5,455 00
Battery Hudson, N. Y.....	7,500 00		7,500 00		5,000 00	2,500 00
New fort opposite Fort Delaware, Delaware shore.....	3,097 75		3,097 75			3,097 75
Fort at Lazaretto Point, Md.....	13,000 00		13,000 00			13,000 00
Fort Sumter, S. C.....	20,748 06		20,748 06		2,000 00	18,748 06
Fort at Alcatraz Island, Cal.....	1,500 00		1,500 00			1,500 00
Purchase of sites for sea-coast defences.....	44,078 49		44,078 49		800 00	43,278 49

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Construction of sea-coast mortar batteries	\$4,034 47	.....	\$4,034 47	.....	.....	\$4,034 47
Permanent platforms for modern cannon of large calibre ..	2,136 16	.....	2,136 16	.....	.....	2,136 16
Contingencies of fortifications	120,140 19	.....	120,140 19	.....	\$22,240 34	97,899 85
Preservation and repair of fortifications	1,143 40	.....	1,143 40	.....	.....	1,143 40
RIVERS AND HARBORS.						
Improving harbor at—						
Camden, Maine	14,000 00	.....	14,000 00	.....	13,000 00	1,000 00
Portland, Maine	45,000 00	.....	45,000 00	.....	.....	45,000 00
Richmond Island, Maine	7,000 00	.....	7,000 00	.....	7,000 00	.....
Burlington, Vt	25,000 00	.....	25,000 00	.....	10,000 00	15,000 00
Swanton, Vt	10,000 00	.....	10,000 00	.....	5,500 00	4,500 00
Wareham, Mass	10,000 00	.....	10,000 00	.....	.....	10,000 00
Boston, Mass	181,000 00	.....	181,000 00	.....	40,000 00	141,000 00
Plymouth, Mass	9,000 00	.....	9,000 00	.....	.....	9,000 00
Gloucester, Mass	686 84	.....	686 84	.....	686 84	.....
Provincetown, Mass	3,000 00	.....	3,000 00	.....	2,000 00	1,000 00
Fall River, Mass	10,000 00	.....	10,000 00	.....	.....	10,000 00
New Bedford, Mass	10,000 00	.....	10,000 00	.....	10,000 00	.....
Newport, R. I	10,000 00	.....	10,000 00	.....	.....	10,000 00
Breakwater at Block Island, R. I	20,000 00	.....	20,000 00	.....	.....	20,000 00
New Haven, Conn	10,000 00	.....	10,000 00	.....	.....	10,000 00
Bridgeport, Conn	15,000 00	.....	15,000 00	.....	10,000 00	5,000 00
Norwalk, Conn	2,000 00	.....	2,000 00	.....	.....	2,000 00
Stonington, Conn	25,000 00	.....	25,000 00	.....	5,000 00	20,000 00
Milford, Conn	13,000 00	.....	13,000 00	.....	5,000 00	8,000 00
Southport, Conn	5,000 00	.....	5,000 00	.....	5,000 00	.....
Waddington, N. Y	3,000 00	.....	3,000 00	.....	2,500 00	500 00
Fort Jefferson, N. Y	15,000 00	.....	15,000 00	.....	5,000 00	10,000 00
Port Chester, N. Y	2,200 00	.....	2,200 00	.....	.....	2,200 00
Ogdensburg, N. Y	3,000 00	.....	3,000 00	.....	1,000 00	2,000 00
Oswego, N. Y	56,000 00	.....	56,000 00	.....	26,000 00	30,000 00
Little Sodus Bay, N. Y	7,055 33	.....	7,055 33	.....	5,500 00	1,555 33
Great Sodus Bay, N. Y	4,000 00	.....	4,000 00	.....	1,500 00	2,500 00
Pultneyville, N. Y	3,000 00	.....	3,000 00	.....	2,500 00	500 00
Charlotte, N. Y	3,000 00	.....	3,000 00	.....	2,000 00	1,000 00
Oak Orchard, N. Y	1,000 00	.....	1,000 00	.....	500 00	500 00
Olcott, N. Y	6,000 00	.....	6,000 00	.....	.....	6,000 00
Buffalo, N. Y	42,712 24	.....	42,712 24	.....	25,000 00	17,712 24
Dunkirk, N. Y	20,000 00	.....	20,000 00	.....	5,000 00	15,000 00
Wilson, N. Y	4,000 00	.....	4,000 00	.....	3,500 00	500 00
Marcus Hook, Pa	9,462 12	.....	9,462 12	.....	.....	9,462 12
Erie, Pa	65,000 00	.....	65,000 00	.....	10,000 00	55,000 00
Wilmington, Del	8,000 00	.....	8,000 00	.....	2,000 00	6,000 00
Ice-harbor at New Castle, Del	27,000 00	.....	27,000 00	.....	13,000 00	14,000 00
Constructing pier in Delaware bay, near Lewes, Del ..	7,000 00	.....	7,000 00	.....	.....	7,000 00
Baltimore, Md	65,000 00	.....	65,000 00	.....	35,000 00	30,000 00
Crisfield, Md	25,000 00	.....	25,000 00	.....	15,000 00	10,000 00
Washington and Georgetown, D. C	15,000 00	.....	15,000 00	.....	5,000 00	10,000 00
Savannah, Ga	70,000 00	.....	70,000 00	.....	25,000 00	45,000 00
Cedar Keys, Fla	15,108 50	.....	15,108 50	.....	10,608 50	4,500 00
Charleston, S. C	15,300 00	.....	15,300 00	.....	15,000 00	300 00
Mobile, Ala	60,800 00	.....	60,800 00	.....	5,000 00	55,800 00
Galveston, Texas	80,000 00	.....	80,000 00	.....	32,000 00	48,000 00
Rocky River, Ohio	10,000 00	.....	10,000 00	.....	5,000 00	5,000 00
Ashtabula, Ohio	25,006 00	.....	25,006 00	.....	5,000 00	20,006 00
Grand River, Ohio	5,000 00	.....	5,000 00	.....	5,000 00	.....
Black River, Ohio	5,000 00	.....	5,000 00	.....	5,000 00	.....
Vermillion, Ohio	5,000 00	.....	5,000 00	.....	.....	5,000 00
Sandusky City, Ohio	15,000 00	.....	15,000 00	.....	10,000 00	5,000 00
Toledo, Ohio	75,000 00	.....	75,000 00	.....	25,000 00	50,000 00
Cleveland, Ohio	48,500 00	.....	48,500 00	.....	20,000 00	28,500 00
Ontonagon, Mich	26,082 41	.....	26,082 41	.....	15,000 00	11,082 41
Eagle Harbor, Mich	9,161 11	.....	9,161 11	.....	4,723 49	4,437 62
New Buffalo, Mich	5,000 00	.....	5,000 00	.....	.....	5,000 00
Ludington, Mich	12,000 00	.....	12,000 00	.....	8,000 00	4,000 00
Cheboygan, Mich	15,000 00	.....	15,000 00	.....	5,000 00	10,000 00
Frankfort, Mich	13,000 00	.....	13,000 00	.....	7,000 00	6,000 00
St. Joseph, Mich	35,000 00	.....	35,000 00	.....	20,000 00	15,000 00
South Haven, Mich	14,000 00	.....	14,000 00	.....	8,000 00	6,000 00
Sangatuck, Mich	16,000 00	.....	16,000 00	.....	10,000 00	6,000 00
Pere Marquette, Mich	90	.....	90	.....	.....	90
Grand Haven, Mich	25,000 00	.....	25,000 00	.....	14,000 00	11,000 00
Muskegon, Mich	29,000 00	.....	29,000 00	.....	13,000 00	16,000 00
Black Lake, Mich	20,000 00	.....	20,000 00	.....	6,000 00	14,000 00
White River, Mich	15,000 00	.....	15,000 00	.....	5,000 00	10,000 00
Manistee, Mich	25,000 00	.....	25,000 00	.....	13,000 00	12,000 00

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Improving harbor at—						
Marquette, Mich.....	\$15,000 00		\$15,000 00		\$13,000 00	\$2,000 00
Of refuge on Lake Huron, Mich.....	291,497 75		291,497 75		91,548 50	199,949 25
Michigan City, Ind.....	59,000 00		59,000 00		29,000 00	30,000 00
Chicago, Ill.....	82,000 00		82,000 00		20,000 00	62,000 00
Calumet, Ill.....	14,000 00		14,000 00		10,000 00	4,000 00
Menomonee, Wis. and Mich.....	25,000 00		25,000 00		15,000 00	10,000 00
Green Bay, Wis.....	10,000 00		10,000 00		8,000 00	2,000 00
Port Washington, Wis.....	10,000 00		10,000 00		10,000 00	
Ahnapee, Wis.....	20,000 00		20,000 00		15,000 00	5,000 00
Two Rivers, Wis.....	15,000 00		15,000 00		15,000 00	
Manitowoc, Wis.....	10,000 00		10,000 00		10,000 00	
Sheboygan, Wis.....	12,000 00		12,000 00		10,000 00	2,000 00
Milwaukee, Wis.....	20,000 00		20,000 00			20,000 00
Racine, Wis.....	5,000 00		5,000 00			5,000 00
Du Luth, Minn.....	20,000 00		20,000 00		10,000 00	10,000 00
Oakland, Cal.....	148,000 00		148,000 00		30,000 00	118,000 00
San Francisco, Cal.....	1,500 00		1,500 00			1,500 00
Breakwater at Wilmington, Cal.....	77,000 00		77,000 00		15,000 00	62,000 00
San Diego, Cal.....	77,000 00		77,000 00			77,000 00
Repairs of harbors on the northern lakes.....	8,294 39		8,294 39			8,294 39
Improving rivers—						
St. Croix river, Maine.....	34,000 00		34,000 00			34,000 00
Machias river, Maine.....	10,000 00		10,000 00		500 00	9,500 00
Kennebec river, Maine.....	24,000 00		24,000 00		5,000 00	19,000 00
Saco river, Maine.....	20		20			20
Penobscot river, Maine.....	61,000 00		61,000 00		11,000 00	50,000 00
Union river, Maine.....	25 00		25 00			25 00
Repairs of piers in Saco river, Maine.....	3 05		3 05			3 05
Cochecho river, N. H.....	19,000 00		19,000 00		9,000 00	10,000 00
Otter creek, Vt.....	5,000 00		5,000 00		5,000 00	
Merrimac river, Mass.....	10,000 00		10,000 00			10,000 00
Taunton river, Mass.....	10,000 00		10,000 00		10,000 00	
Providence river, R. I.....	16 98		16 98			16 98
Pawtucket river, R. I.....	5 96		5 96			5 96
Pawcatuck river, R. I. and Conn.....	10,000 00		10,000 00		10,000 00	
Thames river, Conn.....	30		30			30
Connecticut river, Conn.....	42,000 00		42,000 00		10,000 00	32,000 00
Housatonic river, Conn.....	5,000 00		5,000 00		2,000 00	3,000 00
Hudson river, N. Y.....	40,000 00		40,000 00		5,000 00	35,000 00
East river and Hell Gate.....	230,000 00		230,000 00		70,000 00	160,000 00
East Chester creek, N. Y.....	32,000 00		32,000 00			32,000 00
Removing sunken wreck in channel-way off Sandy Hook.....	7,000 00		7,000 00			7,000 00
Harlem river, N. Y.....	10,000 00		10,000 00		5,000 00	5,000 00
Delaware river, N. J.....	10,000 00		10,000 00		2,000 00	8,000 00
Passaic river, N. J.....	15,000 00		15,000 00		10,000 00	5,000 00
Dredging mud bars, Hudson river, N. J.....	25,000 00		25,000 00		5,000 00	20,000 00
Channel of Schuylkill river, Pa.....	8,000 33		8,000 33		6,000 00	2,000 33
Delaware river at Fort Mifflin bar.....	27,000 00		27,000 00		12,000 00	15,000 00
Delaware river at Horseshoe shoals.....	44,500 00		44,500 00		8,000 00	36,500 00
Chester river, Md.....	10,000 00		10,000 00		10,000 00	
Potomac river, D. C.....	6 61		6 61			6 61
Rappahannock river, Va.....	8,000 00		8,000 00		5,000 00	3,000 00
Nansemond river, Va.....	3,000 00		3,000 00			3,000 00
James river, Va.....	35,000 00		35,000 00		20,000 00	15,000 00
Appomattox river, Va.....	30,000 00		30,000 00		5,000 00	25,000 00
Nomoni creek, Va.....	3,000 00		3,000 00		3,000 00	
Occoquan river, Va.....	3,000 00		3,000 00			3,000 00
Elizabeth river, Va.....	3,000 00		3,000 00		3,000 00	
Great Kanawha river, West Va.....	295,000 00		295,000 00		20,000 00	275,000 00
Upper Monongahela river, West Va.....	93,000 00		93,000 00		10,000 00	83,000 00
Cape Fear river, N. C.....	230,000 00		230,000 00		50,000 00	180,000 00
Roanoke river, N. C.....	8,000 00		8,000 00		5,000 00	3,000 00
Channel in Charleston harbor, S. C.....	9,700 00		9,700 00			9,700 00
Town creek, S. C.....	601 79		601 79			601 79
Ashepo river, S. C.....	56 05		56 05			56 05
Chattahooche and Flint rivers, Ga.....	30,000 00		30,000 00			30,000 00
Oostanaula and Coosawattee rivers, Ga.....	5,000 00		5,000 00			5,000 00
Saint John's river, Fla.....	8,000 00		8,000 00			8,000 00
Apalachicola river, Fla.....	10,000 00		10,000 00		3,000 00	7,000 00
Warrior and Tombigbee rivers, Ala.....	15,000 00		15,000 00			15,000 00
Yazoo rivers, Miss.....	7,000 00		7,000 00			7,000 00
Mouth of Mississippi river, La.....	240,010 00		240,010 00		25,000 00	215,010 00
Tangipahoa river, La.....				\$102 50		102 50
Ouachita river, La. and Ark.....	12,000 00		12,000 00		5,000 00	7,000 00
Bayou Teché, La.....	5,037 27		5,037 27			5,037 27
Removing raft in Red river, La.....	25,000 50		25,000 50		8,000 00	17,000 50

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Improving rivers—						
Removing wreck of gunboat "Oregon" in Tchefuncti river, La.....	\$500 00		\$500 00	\$279 00		\$779 00
Red Fish bar, in Galveston bay, Texas.....	8,700 00		8,700 00		\$8,700 00	
Sabine pass, Texas.....	19,000 00		19,000 00			19,000 00
Ship channel, Galveston bay, Texas.....	25,000 00		25,000 00		25,000 00	
Osage river, Mo.....	5 61		5 61			5 61
Tennessee river.....	475,000 00		475,000 00		15,000 00	460,000 00
Cumberland river, Tenn.....	25,000 00		25,000 00			25,000 00
Ohio river.....	251,000 00		251,000 00		40,000 00	211,000 00
Falls of Ohio river and Louisville canal.....	100,000 00		100,000 00		25,000 00	75,000 00
Wabash river, Ind.....	40,000 00		40,000 00		10,000 00	30,000 00
Illinois river.....	76,000 00		76,000 00			76,000 00
Rock Island rapids, Mississippi river.....	50,000 00		50,000 00		43,000 00	7,000 00
Detroit river, Mich.....	21,000 00		21,000 00			21,000 00
St. Clair river, Mich.....	10,000 00		10,000 00		5,000 00	5,000 00
St. Clair Flats canal, Mich.....	12,653 97		12,653 97			12,653 97
St. Mary's river and St. Mary's Falls canal, Mich.....	544,038 00		544,038 00		70,000 00	474,038 00
Saginaw river, Mich.....	30,292 89		30,292 89		10,000 00	20,292 89
Sebawaing river, Mich.....	8,000 00		8,000 00		8,000 00	
Dredging bar at junction of Pine and St. Clair rivers, Mich.....	5,000 00		5,000 00		1,500 00	3,500 00
Fox and Wisconsin rivers, Wis.....	425,000 00		425,000 00			425,000 00
Des Moines rapids, Mississippi river.....	481,000 00		481,000 00		120,000 00	361,000 00
Construction of lock and dam on Mississippi river at Meeker's Island, Minn.....	25,000 00		25,000 00			25,000 00
Minnesota river, Minn.....	5,000 00		5,000 00			5,000 00
Falls of St. Anthony and navigation of Mississippi river.....	103,000 00		103,000 00		20,000 00	83,000 00
Umpqua river, Oregon.....	4,685 89		4,685 89			4,685 89
Upper Willamette river, Oregon.....	25,000 00		25,000 00		10,000 00	15,000 00
Lower Willamette river, Oregon.....	8 47		8 47			8 47
Upper Columbia river, Oregon.....	35,000 00		35,000 00		10,000 00	25,000 00
Lower Willamette and Columbia rivers, Oregon.....	20,000 00		20,000 00		10,000 00	10,000 00
Sacramento and Feather rivers, Cal.....	15,000 00		15,000 00		15,000 00	
Mississippi river.....	151,000 00		151,000 00		50,000 00	101,000 00
Upper Mississippi.....	19,000 00		19,000 00		9,000 00	10,000 00
Mississippi, Missouri, and Arkansas rivers.....	85,700 00		85,700 00		22,500 00	63,200 00
Examinations and surveys on Pacific coast.....	21,984 23		21,984 23			21,984 23
Examinations and surveys on Atlantic coast.....	59 87		59 87			59 87
Examinations and surveys on northwestern lakes.....	11 00		11 00			11 00
Examinations, surveys, and contingencies of rivers and harbors.....	61,244 39		61,244 39		19,808 00	41,436 39
Examinations and surveys on western and northwestern rivers.....	609 40		609 40			609 40
Repair, preservation, extension, and completion of river and harbor works.....	72,357 10		72,357 10		7,500 00	64,857 10
Survey of the mouth of the Mississippi river.....	154 12		154 12			154 12
Surveys and estimates for improvements on transportation routes to the seaboard.....	16,500 00		16,500 00		5,000 00	11,500 00
Commission to investigate and report plan for the reclamation of the alluvial basin of the Mississippi river.....	5,000 00		5,000 00			5,000 00
Report of exploration and survey of fortieth parallel.....	100,000 00		100,000 00		10,000 00	90,000 00
MISCELLANEOUS.						
Commutation of rations to prisoners of war in rebel States.....					a2,000 00	
Horses and other property lost in the military service.....					a31,220 98	
Reimbursing the State of Kentucky for expenses in suppressing the rebellion.....	374,323 06		374,323 06		33,739 93	340,583 13
Extension of military reservation at Camp Mohave reservation, Arizona Territory.....	588 00		588 00			588 00
Capture of Jefferson Davis.....	3,554 38		3,554 38			3,554 38
Allowance for reduction of wages under eight-hour law.....	9,380 87		9,380 87	463 54		9,844 41
Claims of loyal citizens for supplies furnished during the rebellion.....	8,660 00		8,660 00			8,660 00
Military road from Santa Fé to Fernandez de Taos, New Mexico.....		\$6,644 80	6,644 80		6,644 80	
Erection of a monument to the memory of soldiers who died in prison at Salisbury, N. C.....	10,000 00		10,000 00			10,000 00
Rogue River Indian war.....					a1,544 00	
Construction of military roads in Arizona.....		15,000 00	15,000 00		15,000 00	
Publication of official records of the war of the rebellion.....	45,000 00		45,000 00		10,000 00	35,000 00
Military prison at Fort Leavenworth, Kansas.....		100,000 00	100,000 00		20,700 69	79,299 31
Payment to Bryant and Rogers for plans and specifications for military prison.....		600 00	600 00		600 00	
Investigation of reported existence of cholera in Mexico.....		5,000 00	5,000 00			5,000 00

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
Construction and operation of a line of telegraph on the frontier settlements of Texas				\$1 50		\$1 50
Support of Soldiers' Home					a \$33,937 18	
Bounty under act July 28, 1866, and subsequent acts					a 35,371 30	
Bounty under act July 28, 1866, and subsequent acts, transfer				2,201,205 85		2,201,205 85
Payment of expenses under the reconstruction acts	\$126,090 41		\$126,090 41		6 00	126,084 41
Payment of expenses under the reconstruction acts, transfer				59 12		59 12
Arming and equipping the militia	164,133 99	\$200,000 00	364,133 99		70,115 55	294,018 44
Ordnance material, proceeds of sales	2,221 36		2,221 36			2,221 36
Copying papers in the matter of the trial of Captain Hurtt	32		32			32
Pedestal for equestrian statue of Major General James B. McPherson		25,000 00	25,000 00			25,000 00
Relief of—						
S. and H. Sayles	88,688 15		88,688 15			88,688 15
R. B. Lacey	1,043 91		1,043 91		1,043 91	
J. B. Tyler	120 00		120 00		120 00	
Major J. W. Nichols	4,500 00		4,500 00			4,500 00
Alexander Minor	234 00		234 00		234 00	
J. T. Watson	3,962 00		3,962 00			3,962 00
T. Simms	6 68		6 68			6 68
J. W. Divine	15 06		15 06			15 06
Destitute in District of Columbia	4 92		4 92			4 92
Persons suffering from the overflow of the Mississippi river	279,965 67		279,965 67			279,965 67
Loyal citizens of Loudoun county, Va.	449 50		449 50			449 50
Persons suffering from the ravages of grasshoppers	8,052 74		8,052 74	3,883 21		11,935 95
Total War Department	8,950,665 11	352,244 80	9,302,909 91	2,205,994 72	2,107,894 01	9,505,084 08
NAVY DEPARTMENT.						
Enlistment bounties to seamen	\$261 03		\$261 03		\$142 69	\$118 34
Purchase of instruments for observation of transit of Venus	21,707 43		21,707 43		5,149 94	16,557 49
Surveying Isthmus of Darien for ship-canal				\$235 54		235 54
Printing illustrations, Polaris expedition	12,445 50		12,445 50		1,000 00	11,445 50
Ordnance material, proceeds of sales		\$32,782 64	32,782 64		30,412 00	2,370 64
Clothing, Navy	63 07		63 07	48,985 03		49,048 10
Naval-hospital fund	1,141 37			319 28		1,460 65
Prize-money to captors	602,259 08	317,063 31	919,322 39		45,068 20	874,254 19
Bounty for destruction of enemy's vessels	2,655 41		2,655 41		129 82	2,525 59
Indemnity for lost clothing					a 360 00	
Allowance for reduction of wages under eight-hour law	4,205 20		4,205 20			4,205 20
Navy pension fund	44,937 14		44,937 14	210,000 00		254,937 14
Preservation of Chevalier de Ternay's monument at Newport, R. I.	800 00		800 00			800 00
Relief of—						
The children of Otway H. Berryman and others	13,561 23		13,561 23			13,561 23
Mrs. R. A. Kennedy	739 00		739 00			739 00
Robert A. Mayo	1,507 59		1,507 59			1,507 59
The survivors of the Polaris					a 2,400 00	
Certain officers of the Navy					a 21,742 86	
The owners of the steamer Clara Dolsen					a 22,050 00	
Total Navy Department	706,283 05	349,845 95	1,054,987 63	259,539 84	128,455 51	1,243,766 20
INTERIOR DEPARTMENT.						
MISCELLANEOUS.						
Repayment for land erroneously sold					a \$8,906 62	
Indemnity for swamp lands purchased by individuals					a 6,414 51	
Five per cent. fund of net proceeds of sales of public lands, Kansas					a 3,991 94	
Five per cent. fund of net proceeds of sales of public lands, Oregon					a 1,970 91	
Deposits by individuals for expenses of surveying public lands	\$139,761 16		\$139,761 16		21,353 15	\$118,408 01
Jail for the District of Columbia	181,992 16		181,992 16		108,000 00	73,992 16
Penitentiary building in Washington Territory, (act February 22, 1873)	128 05		128 05			128 05
Expenses of Eighth Census	24,861 53		24,861 53		1,328 98	23,532 55
Maryland Institution for Instruction of the Blind					a 675 00	
Pay commissioners, &c., homestead laws	334 00		334 00			334 00
Examination as to occupancy of Rancho Panoche Grande	4,150 77		4,150 77			4,150 77
PENSIONS.						
Navy pensions	107,304 17		107,304 17			107,304 17

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
INDIAN AFFAIRS.						
Fulfilling treaties with, (proceeds of lands)—						
Cherokees, school	\$124 46	\$49 33	\$173 79			\$173 79
Cherokees	6,847 38	971 35	7,818 73			7,818 73
Cherokees, proceeds of Osage diminished reserved lands in Kansas, transfer	721,748 80		721,748 80			721,748 80
Delawares	105 64		105 64			105 64
Iowas	28 30		28 30			28 30
Kansas	9,859 78		9,859 78			9,859 78
Kaskaskias, Peorias, Weas, and Piankeshaws	787 28		787 28			787 28
Kickapoos	1 08		1 08			1 08
Menomonees	323 50		323 50		\$323 50	
Miamies of Kansas	5,126 32		5,126 32			5,126 32
Omahas	712 26		712 26			712 26
Osages, trust	1,111,604 21	102,397 66	1,214,001 87		99,388 59	1,114,613 28
Ottawas of Blanchard's Fork and Roche de Boeuf	5 00		5 00			5 00
Pottawatomies	36,241 05		36,241 05			36,241 05
Sacs and Foxes of the Mississippi	247 17		247 17			247 17
Stockbridges	1,574 57		1,574 57		884 09	690 48
Winnebagoes	15,745 25	4,768 71	20,513 96			20,513 96
Trust-fund interest due—						
Cherokee asylum fund		2,374 14	2,374 14		2,374 14	
Cherokee national fund	4,665 01	14,277 60	18,942 61		18,942 61	
Cherokee school fund	2,443 31	15,441 50	17,884 81		16,975 14	909 67
Cherokee orphan fund	535 45	8,143 95	8,679 40		8,679 40	
Chickasaw incompetents	1,300 00	50 00	1,350 00			1,350 00
Chickasaw national fund	12,225 61	18,682 47	30,908 08			30,908 08
Chippewa and Christian Indians	337 34	1,253 71	1,591 05		1,591 05	
Choctaw general fund	28 80	90 63	119 43		119 43	
Choctaw school fund	460 75	1,093 93	1,554 68		1,554 68	
Creek orphans	216 47	151 90	368 37		336 01	32 36
Delaware general fund	3,027 99	16,684 96	19,712 95			19,712 95
Delaware school fund	5,847 42	154 69	6,002 11			6,002 11
Iowas	1,990 30	3,031 48	5,021 78		1,735 15	3,286 63
Kansas schools	2,026 54	724 20	2,750 74			2,750 74
Kaskaskias, Peorias, Weas, and Piankeshaws	1,238 12	483 99	1,722 11			1,722 11
Kaskaskias, Peorias, Weas, and Piankeshaws, school fund		840 00	840 00			840 00
Kickapoos, general fund	1,860 15	1,802 11	3,662 26		3,662 26	
Menomonees	2,731 17	2,059 33	4,790 50		2,731 17	2,059 33
Osage schools	1,801 82	696 91	2,498 73			2,498 73
Ottawas and Chippewas	29,891 86	401 14	30,293 00			30,293 00
Pottawatomies, education	13,447 20	2,033 85	15,481 05		9,500 00	5,981 05
Pottawatomies, general fund	3,452 15		3,452 15			3,452 15
Pottawatomies, mills	215 98	287 42	503 40		503 40	
Sacs and Foxes of the Missouri	141 46	562 64	704 10		566 24	137 86
Sacs and Foxes of the Mississippi		1,612 03	1,612 03			1,612 03
Senecas	589 53	577 09	1,166 62			1,166 62
Senecas—Tonawanda band	6,096 66	1,222 73	7,319 39		6,096 66	1,222 73
Senecas and Shawnees	99 13	427 15	526 28			526 28
Shawnees	597 14	68 01	665 15			665 15
Shawnees—Eastern band		410 04	410 04			410 04
Interest due Cherokee Indians on lands sold to Osages		19,714 95	19,714 95		19,714 95	
Interest due Tabeguache, Muache, &c., bands of Utes	509 41	4,315 07	4,824 48		436 69	4,387 79
Interest due Stockbridge consolidated fund	6,310 98	1,895 11	8,206 09		6,310 98	1,895 11
Stockbridge consolidated fund	75,804 46		75,804 46			75,804 46
Trust-fund stocks redeemed—						
Chickasaw national fund	21 84		21 84			21 84
Pottawatomies' education fund		63,000 00	63,000 00		63,000 00	
Proceeds of sale of trust-fund bonds—						
Chickasaw national	568 25		568 25			568 25
Ottawas of Blanchard's Fork and Roche de Boeuf	2,000 00		2,000 00			2,000 00
Pottawatomie	415 63		415 63			415 63
Kickapoo	79		79			79
General and miscellaneous expenses—						
Civilization fund	9,984 34		9,984 34	\$185 94		10,170 28
Buildings at agencies, and repairs				2 50		2 50
Payment to creditors of Upper and Lower bands of Sioux Indians	2,440 77		2,440 77			2,440 77
Payment to l'Anse de Sert Chippewas for lands	20,000 00		20,000 00			20,000 00
Payment to North Carolina Cherokees	51,423 57		51,423 57		6,054 25	45,369 32
Maintaining peace among and with various tribes and bands of Indians				1 09		1 09
Road from Fort Ridgely to the South pass of the Rocky mountains, Nebraska				299 63		299 63
Claims of settlers on Round Valley Indian reservation in California, (restored to public lands)	55 55	1,098 95	1,154 50			1,154 50

A.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances at commencement of current fiscal year, July 1, 1875.	Appropriated for the service of the current fiscal year.	Available for the service of the current fiscal year.	Repayments in excess of expenditures during first quarter of current fiscal year.	Expended during first quarter of current fiscal year.	Estimated amounts required for remaining three quarters of the fiscal year.
General and miscellaneous expenses—						
Proceeds of Sioux reservations in Minnesota and Dakota	\$17,136 38	\$1,042 50	\$18,178 88	.....	\$6,690 62	\$11,488 26
Proceeds of Winnebago reservation in Minnesota	799 25	.....	799 25	.....	.....	799 25
Proceeds of New York Indian lands in Kansas	768 00	747 17	1,515 17	.....	.....	1,515 17
Wagon-road from Northern Pacific Railway to agency for Chippewa Indians of the Mississippi	5,000 00	.....	5,000 00	.....	.....	5,000 00
Maintenance and education of Helen and Heloise Lincoln	5,062 50	.....	5,062 50	.....	.....	5,062 50
Relief of Henry A. Webster, B. V. McCollum, and A. Colby, of Washington Territory, pre-emptors on the Makah Indian reservation	350 90	.....	350 90	.....	.....	350 90
Relief of persons for damages sustained by reason of depredations, &c., by certain bands of Sioux Indians	72 00	.....	72 00	.....	.....	72 00
Total Department of the Interior	2,665,605 87	295,640 40	2,961,246 27	\$489 16	430,812 12	2,552,882 29
POST OFFICE DEPARTMENT.						
Purchase of scales for Post Office Department .....	.....	\$30,000 00	\$30,000 00	.....	.....	\$30,000 00

B.—Statement showing the balances of appropriations July 1, 1875, made for the service of the fiscal year ended June 30, 1874, limited by law to the payment of indebtedness incurred during the year for which they were made; the amount expended for that purpose during the quarter ended September 30, 1875, and the amounts which may be further required or carried to the surplus fund.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures during quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
LEGISLATIVE.				
UNITED STATES SENATE.				
Salaries and mileage of Senators	\$115,617 89	.....	.....	\$115,617 89
Salaries, officers and employes, Senate	9,821 50	.....	.....	9,821 50
Salaries, temporary clerks, Senate	942 32	.....	.....	942 32
Contingent expenses, Senate—				
Stationery and newspapers	5,604 14	.....	.....	5,604 14
Clerks to committees, pages, &c.	5,273 66	.....	.....	5,273 66
Fuel for heating apparatus	56 82	.....	.....	56 82
Furniture and repairs	338 88	.....	.....	338 88
Labor	2,379 42	.....	.....	2,379 42
Miscellaneous items	7,613 18	.....	.....	7,613 18
Salaries of Capitol police	2,728 41	.....	.....	2,728 41
Horses and carryalls	2,685 00	.....	.....	2,685 00
Twenty per cent. additional pay to reporters of the Senate	7,500 00	.....	.....	7,500 00
HOUSE OF REPRESENTATIVES.				
Salaries and mileage of members and delegates	161,859 04	.....	.....	161,859 04
Salaries, officers and employes, House of Representatives	19,770 89	.....	.....	19,770 89
Contingent expenses, House of Representatives—				
Clerks to committees, &c.	4,065 54	.....	.....	4,065 54
Cartage	11 20	.....	.....	11 20
Folding documents	7,088 31	.....	.....	7,088 31
Fuel	472 23	.....	.....	472 23
Horses and carriages	127 50	.....	.....	127 50
Furniture and repairs	66 14	.....	.....	66 14
Newspapers and stationery	5 96	.....	.....	5 96
Stationery for committees	50 70	.....	.....	50 70
Pages	4,929 00	.....	.....	4,929 00
Miscellaneous items	274 29	.....	.....	274 29
Salaries of Capitol police	2,345 23	.....	.....	2,345 23

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Contingent expenses, House of Representatives—				
Twenty per cent. additional pay to reporters of the House of Representatives.....	\$7,500 00			\$7,500 00
Postage, office Clerk of the House of Representatives.....	100 00			100 00
Postage, office Sergeant-at-Arms of the House of Representatives.....	100 00			100 00
Salary telegraph operator.....	700 00			700 00
CONGRESSIONAL PRINTER.				
Contingent expenses, office of Congressional Printer.....	500 00		\$470 58	970 58
Public printing and binding.....	380,897 84			380,897 84
Lithographing, engraving, &c.....	26,850 03			26,850 03
LIBRARY OF CONGRESS.				
Salaries, Library of Congress.....	1,753 91			1,753 91
Contingent expenses, Library of Congress.....	1 25			1 25
Plans for Library of Congress.....	897 30			897 30
Publishing historical documents relating to early French discoveries in the Northwest and on the Mississippi.....	10,000 00	\$10,000 00		
BOTANIC GARDEN.				
Salaries, Botanic Garden.....	02			02
Improving Botanic Garden.....	53			53
Improving buildings, Botanic Garden.....	13 36			13 36
COURT OF CLAIMS.				
Salaries of judges, &c., Court of Claims.....	531 60			531 60
Payment of judgments, Court of Claims.....	11,750 22			11,750 22
Total Legislative.....	803,223 31	10,000 00	470 58	411,825 47
EXECUTIVE.				
EXECUTIVE PROPR.				
Salary of the Vice-President.....	\$894 45			\$894 45
Promoting the efficiency of the civil service.....	7,635 36		\$1,183 30	8,818 66
Total Executive.....	8,529 81		1,183 30	9,713 11
DEPARTMENT OF STATE.				
Salaries, Department of State.....	\$6,285 89			\$6,285 89
Publishing laws, Department of State.....	3,304 64			3,304 64
Proof-reading, &c., Department of State.....	697 75			697 75
Stationery, furniture, &c., Department of State.....	231 13			231 13
Books and maps, Department of State.....	784 62			784 62
Contingent expenses, Department of State.....	6,797 91			6,797 91
Lithographing, Department of State.....	872 89			872 89
Additional salary, Disbursing Clerk, Department of State.....	875 00			875 00
Postage, Department of State.....	58,579 86			58,579 86
FOREIGN INTERCOURSE.				
Contingent expenses of United States and Spanish Claims Commission.....	361 15			361 15
Salaries and expenses of United States and British Claims Commission.....	6,347 15			6,347 15
Contingent expenses, United States and British Claims Commission.....	14,923 58			14,923 58
Salaries, United States and Mexican Claims Commission.....	4,422 54			4,422 54
Contingent expenses, United States and Mexican Claims Commission.....	115 00			115 00
Salaries of ministers.....	6,853 38	\$1,148 08		5,705 30
Salaries, secretaries of legation.....	3,010 98			3,010 98
Contingent expenses, foreign missions.....	27,538 55	300 00		27,538 55
Salary of interpreter, legation to Japan.....	2,500 00			2,500 00
Salaries of consuls, &c.....	33,229 75	1,971 49		31,258 26
Salaries of interpreters to consulates in China, Japan, and Siam.....	182 07			182 07
Salaries of marshals for consular courts.....	1,853 10			1,853 10
Expenses for interpreters, guards, &c., in Turkish Dominions.....	316 54			316 54
Contingent expenses, United States consulates.....	5,052 22	496 30		4,555 92
Prisons for American convicts.....	5,235 83			5,235 83
Bringing home criminals.....	3,931 40			3,931 40
Relief and protection of American seamen.....	62,089 55	981 22		61,108 33
Rescuing shipwrecked American seamen.....	3,812 44			3,812 44
Expenses under the Neutrality Act.....	19,500 00			19,500 00

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Annual expenses of Cape Spartel light	\$57 00			\$57 00
Allowance to widows or heirs of diplomatic officers who die abroad	4,092 17			4,092 17
Rent of court-house and jail in Japan	4,265 92			4,265 92
Total Department of State	288,420 01	\$4,897 09		283,522 92
TREASURY DEPARTMENT.				
Salaries—				
Office of Secretary of Treasury	\$4,734 53			\$4,734 53
Office of Supervising Architect	416 49			416 49
Office of First Comptroller	3,465 25			3,465 25
Office of Second Comptroller	4,273 03			4,273 03
Office of Commissioner of Customs	300 98			300 98
Office of First Auditor	2,951 19			2,951 19
Office of Second Auditor	10,976 78			10,976 78
Office of Third Auditor	4,398 03	\$58 70		4,339 33
Office of Fourth Auditor	902 54			902 54
Office of Fifth Auditor	1,095 17			1,095 17
Office of Auditor of the Treasury for Post Office Department	447 22			447 22
Office of Treasurer of United States	1,058 56			1,058 56
Office of Register	7,342 50			7,342 50
Office of Comptroller of the Currency	2,995 99			2,995 99
Office of Commissioner of Internal Revenue	1,115 27			1,115 27
Office of Light-house Board	218 69			218 69
Bureau of Statistics	36 77			36 77
Temporary clerks	2,750 43			2,750 43
Stationery for Treasury Department	11 97			11 97
Contingent expenses, Treasury Department	7 04			7 04
Fuel, lights, and miscellaneous items, Treasury Department	87 64			87 64
Furniture and carpets, Treasury Department	24 49			24 49
Postage for Treasury Department	2,681 99			2,681 99
Examination of national banks and bank-note plates	9 14			9 14
INDEPENDENT TREASURY.				
Salaries—				
Office of assistant treasurer at Baltimore	235 80			235 80
Office of assistant treasurer at Boston	58 16			58 16
Office of assistant treasurer at Charleston	30 21			30 21
Office of depositary at Cincinnati	47 23			47 23
Office of assistant treasurer at New York	4,695 90			4,695 90
Office of assistant treasurer at Philadelphia	121 77			121 77
Additional clerks, Independent Treasury	4,901 47			4,901 47
Contingent expenses, Independent Treasury	1,342 96		\$37 50	1,305 46
Salaries, &c., special agents, Independent Treasury	4,502 00			4,502 00
Checks and certificates of deposit, Independent Treasury	3,542 50			3,542 50
Salaries, office of designated depositaries	2,700 00			2,700 00
MINTS AND ASSAY OFFICES.				
Salaries, mint at Philadelphia	100 00			100 00
Wages of workmen, mint at Philadelphia	21,068 97			21,068 97
Contingent expenses, mint at Philadelphia	416 99			416 99
Freight on bullion, mint at Philadelphia	536 20			536 20
Salaries, mint at Carson City, Nev.	166 39			166 39
Contingent expenses, mint at Carson City, Nev.	3,130 20			3,130 20
Contingent expenses, assay office, Charlotte, N. C.	1 26			1 26
Salaries, mint at Denver, Col.	720 65			720 65
Wages of workmen, mint at Denver, Col.	44 00			44 00
Salaries, mint at San Francisco, Cal.	33 33			33 33
Wages of workmen, mint at San Francisco, Cal.	8,247 79			8,247 79
Contingent expenses, mint at San Francisco, Cal.	11 69			11 69
Contingent expenses, assay office, Boise City, Idaho	200 00		12 60	212 60
Wages of workmen, assay office, New York	7,694 94			7,694 94
Recoinage of gold and silver coins	12,034 47			12,034 47
Salaries, office of Director of the Mint	550 00			550 00
TERRITORIAL GOVERNMENT.				
Salaries, governor, &c., Territory of Arizona	8 24			8 24
Legislative expenses, Territory of Arizona	103 00			103 00
Legislative expenses, Territory of Colorado	88			88
Salaries, governor, &c., Territory of Dakota	61 14			61 14
Legislative expenses, Territory of Dakota	27 13			27 13
Legislative expenses, Territory of Idaho	150 08			150 08
Legislative expenses, Territory of Utah	3,519 16			3,519 16
Legislative expenses, Territory of Wyoming	1,542 76			1,542 76
Contingent expenses, Territory of Wyoming	20 85			20 85
Salaries, government of the District of Columbia	1,705 41			1,705 41

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
INTERNAL REVENUE.				
Assessing and collecting internal revenue	\$491,030 18	\$2,486 15		\$488,544 03
Punishment and violation of internal-revenue laws	88,425 02	1,984 33		86,440 69
Stamps, paper, and dies	15,092 67			15,092 67
CUSTOMS SERVICE.				
Expenses of revenue-cutter service	128,781 05	1,620 36		127,160 69
Furniture and repairs of same for public buildings	2 95			2 95
Pay of custodians and janitors	54,131 02			54,131 02
Repairs and preservation of public buildings	12 06			12 06
Heating apparatus for public buildings	131 14			131 14
Metric standard of weights and measures	5 22			5 22
LIGHT-HOUSE ESTABLISHMENT.				
Preserving life and property from shipwrecked vessels	7,007 85			7,007 85
Preserving life and property from shipwrecked vessels, contingent expenses	693 62			693 62
Supplies of light-houses	1,505 82		\$5 33	1,511 15
Repairs and incidental expenses of light-houses	71 92		39 96	111 88
Salaries, keepers of light-houses	2,565 69	54 35		2,511 34
Expenses of light-vessels	266 83			266 83
Expenses of buoyage	2,399 18			2,399 18
Expenses of fog-signals	178 62			178 62
Commissions to superintendents of lights	5,487 16	2 75		5,484 41
TREASURY MISCELLANEOUS.				
Expenses of national currency	252 20			252 20
Suppressing counterfeiting and fraud	32 59			32 59
Vaults, safes, and locks for public buildings	52 21			52 21
Collection of captured and abandoned property, records and evidence respecting same	38,850 00			38,850 00
Total Treasury Department	973,550 22	6,206 64	95 39	967,363 97
WAR DEPARTMENT.				
Salaries, office of Secretary of War	\$1,181 62			\$1,181 62
Contingent expenses, office of Secretary of War	13 48			13 48
Salaries, office of Adjutant General	168 07			168 07
Contingent expenses, office of Adjutant General	49			49
Salaries, office of Quartermaster General	1,174 98			1,174 98
Contingent expenses, office of Quartermaster General	17 18			17 18
Salaries, office of Commissary General	432 25			432 25
Contingent expenses, office of Commissary General	2 31			2 31
Contingent expenses, office of Surgeon General	4 25			4 25
Salaries, office of Paymaster General	86 16			86 16
Salaries, office of Chief Engineer	699 45			699 45
Contingent expenses, office of Chief Engineer	27			27
Salaries, office of Chief of Ordnance	131 25			131 25
Contingent expenses, Bureau of Military Justice	14			14
Contingent expenses, War-Department building	18 13			18 13
Contingent expenses, building corner Fifteenth and F streets	6 17			6 17
Salaries of employés, public buildings and grounds, under Chief Engineer	604 05			604 05
Lighting, &c., Capitol, Executive Mansion, &c	10,257 62			10,257 62
Washington aqueduct	35			35
Postage, War Department	78,424 48			78,424 48
Modification of building corner Seventeenth and F streets	5 15			5 15
MILITARY ESTABLISHMENT.				
Pay, mileage, and general expenses	1,158,714 01		\$9,031 76	1,167,745 77
Pay of Military Academy	19,379 50			19,379 50
Collection and payment of bounty, prize-money, and other claims of colored soldiers and sailors	25,000 00		6,235 04	31,235 04
Subsistence of the Army	653 39	\$78 12		575 27
Regular supplies of the Quartermaster's department	188,982 16		475 30	189,457 46
Incidental expenses	21,706 92	3,441 09		18,265 83
Barracks and quarters	25,289 23	152 42		25,136 81
Transportation of the Army and its supplies	788,187 07	50,447 94		737,739 13
Horses for cavalry and artillery	45,117 11	15 00		45,102 11
Clothing and camp and garrison equipage	17,275 76		800 74	18,076 50
National cemeteries			64 67	64 67
Headstones for graves in national cemeteries	864,960 83	50,000 00		814,960 83
Medical and hospital department, (regular)	7,447 87	110 63		7,337 24
Construction and repair of hospitals	13,505 58			13,505 58

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Ordnance service	\$4 65			\$4 65
Ordnance, ordnance stores and supplies	4,773 66		\$377 65	5,151 31
Repairs of arsenals	81			81
Miscellaneous items and incidental expenses, Military Academy	352 87			352 87
Buildings and grounds, Military Academy	2 31			2 31
Batteries in Portsmouth harbor, N. H.	1 00			1 00
Fort Independence, Mass	10 00			10 00
Fort Taylor, Fla.	42			42
Fort Jefferson, Fla.	9,671 56			9,671 56
Torpedoes for harbor defences	35 00			35 00
Contingencies of fortifications	15,320 79			15,320 79
Surveys of northern and northwestern lakes	1,062 50			1,062 50
Expenses of recruiting	46,238 52	\$156 50		46,082 02
Contingencies of Adjutant General's office	1,659 19		10	1,659 29
Signal service	51 03		9 74	60 77
Observation and report of storms	10 67		33 54	44 21
Support of Freedmen's Hospital and Asylum, Washington, D. C.	1,797 41			1,797 41
Horses and other property lost in the military service	70 03			70 03
Refunding to States expenses incurred in raising volunteers	127,872 82	38,572 04		89,300 78
Contingencies of the Army, (regular)	59,035 71	12 00		59,023 71
Expenses of military convicts	8,948 17	775 00		8,173 17
Telegraph from San Diego, Cal., to Prescott and Tucson, Arizona	4,858 93			4,858 93
Salaries of civil commissioners on Military-Prison Board	170 00			170 00
Travelling expenses of Military-Prison Board	940 07			940 07
Total War Department	3,552,335 40	143,760 74	17,028 54	3,425,603 20
NAVY DEPARTMENT.				
Salaries, office of Secretary of Navy	\$894 45			\$894 45
Salaries, Bureau of Yards and Docks	3,000 00			3,000 00
Contingent expenses, Navy-Department building	09			09
Postage, Navy Department	1,739 00			1,739 00
NAVAL ESTABLISHMENT.				
Pay of Marine Corps	99 50			99 50
Naval Academy	660 38			660 38
Navy yard at—				
Kittery, Maine	9 29		\$0 49	9 78
Brooklyn, N. Y.	4 47			4 47
Philadelphia, Pa.	336 56			336 56
Washington, D. C.	94 27			94 27
Pensacola, Fla.	64 61			64 61
Mare Island, Cal.	1 17			1 17
Naval station at League Island, Pa.	05			05
Naval asylum at Philadelphia, Pa.	2,102 16			2,102 16
Contingent, Yards and Docks	2 24		75	2 99
General maintenance, Yards and Docks	25			25
Equipment of vessels	591 94	\$561 82		30 12
Civil establishment, Equipment and Recruiting	36 38			36 38
Contingent, Equipment and Recruiting			42 51	42 51
Navigation and navigation supplies			184 23	184 23
Contingent, Navigation	47			47
Naval Observatory	42 15			42 15
Nautical Almanac	172 34			172 34
Purchase of refracting telescope	543 33	542 00		1 33
Tower for refracting telescope	3 99			3 99
Ordnance and ordnance stores	1,610 73	1,592 00		18 73
Civil establishment, Ordnance	943 67			943 67
Contingent, Ordnance	7 54			7 54
Torpedo corps	8 88			8 88
Magazine at—				
Boston	1 48			1 48
Washington	281 70	280 70		1 00
Mare Island			6 83	68 83
Construction and Repair	721 51		123 96	845 47
Civil establishment, Construction and Repair	1,461 60			1,461 60
Construction of eight steam vessels-of-war	1,216 61		72	1,217 33
Protecting timber lands	252 53			252 53
Steam machinery	178 30		235 16	413 46
Civil establishment, Steam Engineering	26 27			26 27
Provisions, Navy	79		502 54	503 33
Contingent, Provisions and Clothing	222 22	13 64		208 58
Surgeons' necessities and appliances	80			80
Repair and improvement of hospitals	391 32			391 32
Civil establishment, Medicine and Surgery	126 11			126 11

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Contingent, Medicine and Surgery	\$18 39		\$3 27	\$21 66
Pay of the Navy	14,421 36	\$14,270 34		151 02
Contingent, Navy	245 25	243 30		1 95
Total Navy Department	32,536 15	17,503 80	1,162 46	16,194 81
INTERIOR DEPARTMENT.				
Salaries, office of Secretary of the Interior	\$2,015 84			\$2,015 84
Contingent expenses, office of Secretary of the Interior	1 62			1 62
Salaries of watchmen, Department of the Interior	9 31			9 31
Salaries, General Land Office	454 70			454 70
Contingent expenses, General Land Office	24			24
Salaries, office of Commissioner of Indian Affairs	19 38			19 38
Salaries, office of Commissioner of Pensions	528 22			528 22
Contingent expenses, office of Commissioner of Pensions	65			65
Salaries, office of Commissioner of Patents	34 18			34 18
Salaries, office of Commissioner of Education	5 75			5 75
Contingent expenses, office of Commissioner of Education	1 72			1 72
PUBLIC LANDS.				
Contingent expenses, office of surveyor general of Arizona	514 26			514 26
Salaries, office of surveyor general of California	784 94			784 94
Contingent expenses, office of surveyor general of California	1 42			1 42
Contingent expenses, office of surveyor general of Colorado	18 58	\$18 58		
Salaries, office of surveyor general of Dakota	6 90			6 90
Contingent expenses, office of surveyor general of Florida	264 97			264 97
Salaries, office of surveyor general of Idaho	47 84			47 84
Contingent expenses, office of surveyor general of Idaho	644 64			644 64
Contingent expenses, office of surveyor general of Kansas	3 71			3 71
Salaries, office of surveyor general of Louisiana	533 97			533 97
Contingent expenses, office of surveyor general of Louisiana	89			89
Contingent expenses, office of surveyor general of Minnesota	62 75			62 75
Salaries, office of surveyor general of Montana	110 89			110 89
Contingent expenses, office of surveyor general of Montana	4 70			4 70
Contingent expenses, office of surveyor general of Nebraska and Iowa	11 25			11 25
Contingent expenses, office of surveyor general of Nevada	60			60
Salaries, office of surveyor general of New Mexico	5 09			5 09
Contingent expenses, office of surveyor general of New Mexico	04			04
Salaries, office of surveyor general of Oregon	9 45			9 45
Contingent expenses, office of surveyor general of Oregon	5 03			5 03
Salaries, office of surveyor general of Utah	110 33			110 33
Contingent expenses, office of surveyor general of Utah	197 90			197 90
Salaries, office of surveyor general of Wyoming	21 25			21 25
Contingent expenses, office of surveyor general of Wyoming	1,163 23			1,163 23
Salaries and commissions of registers and receivers	144,415 81	213 48		144,202 33
Contingent expenses of land offices	17,723 10			17,723 10
Expenses of depositing public moneys	8,841 69			8,841 69
Depredations on public timber	4,623 45			4,623 45
Surveying public lands in—				
Arizona	113 82			113 82
California	7,304 30			7,304 30
Colorado	25 33			25 33
Idaho	520 67			520 67
Louisiana	15,739 30			15,739 30
Minnesota	222 44			222 44
Nebraska	42 74			42 74
Nevada	10 96			10 96
Oregon	8,820 66			8,820 66
Utah	114 41			114 41
Washington Territory	1 42			1 42
Survey of eastern boundary of New Mexico	20 00			20 00
Survey of southern boundary of Colorado	117 75			117 75
Survey of the boundary between the Territories of Idaho and Washington	210 00			210 00
Examination of the public surveys	5,048 16			5,048 16
Survey of useless military reservations	2,825 52	670 62		2,154 90
Survey of exterior boundaries of Indian reservations	7,804 15	299 20		7,504 95
MISCELLANEOUS.				
Grounds, Columbia Hospital for Women and Lying-in Asylum	2 00			2 00
Buildings and grounds, Reform School of the District of Columbia	6 80			6 80
Postage Interior Department	89,246 04			89,246 04
PENSIONS.				
Army pensions	214,056 17		\$968 20	215,024 37
Navy pensions	16,392 90		40 00	16,432 90

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
INDIAN AFFAIRS.				
Pay of special agents.....	\$1,500 00			\$1,500 00
Pay of superintendents and Indian agents.....	8,467 27			8,467 27
Pay of sub-agents.....	1,000 00			1,000 00
Pay of interpreters.....	973 76	\$151 40		822 36
Pay of temporary clerks to superintendents.....	900 00			900 00
Fulfilling treaties with—				
Assinaboines.....	14,207 66			14,207 66
Blackfeet, Bloods, and Piegans.....	10,293 94		\$8 78	10,302 72
Calapooias, Molallas, and Clackamas of Willamette Valley.....	1,714 14			1,714 14
Chippewas—Boise Fort band.....	978 70			978 70
Chippewas of Lake Superior.....	913 60			913 60
Chippewas—Pillager and Lake Winnebagoshish bands.....	191 36			191 36
Chippewas of Red Lake and Pembina tribe of Chippewas.....	428 37			428 37
Confederated tribes and bands in Middle Oregon.....	30 68			30 68
Crows.....	50,201 79			50,201 79
Delawares.....	1,772 43			1,772 43
Flatheads and other confederated tribes.....	814 02			814 02
Gros Ventres.....	15,059 27			15,059 27
Klamatas and Modocs.....			26	26
Mixed Shoshones, Bannocks, and Sheepeaters.....	385 35			385 35
Miamies of Eel river.....			10	10
Miamies of Indiana.....			99 74	99 74
Navajoes.....	1,815 13			1,815 13
Nez Percés.....	5,417 59			5,417 59
Northern Cheyennes and Arapahoes.....	73 01		747 03	820 04
Omahas.....	660 70			660 70
Pawnees.....	2,085 61			2,085 61
Poncas.....	54 00	54 00		
Pottawatomies.....	1,000 00			1,000 00
Qui-nai-elts and Quil-leh-utes.....	694 04			694 04
River Crows.....	6,876 02			6,876 02
Shoshones—Eastern, Western, Northwestern, and Goship bands.....	1 63			1 63
Shoshones and Bannocks.....	3,588 96			3,588 96
Six Nations of New York.....	388 37			388 37
Sioux of different tribes, including Santee Sioux in Nebraska.....	4,172 15	3,779 48		392 67
Sisseton, Wahpeton, and Santee Sioux of Lake Traverse and Devil's Lake.....	353 12			353 12
Utahs—Tabeguache band.....	2,582 39			2,582 39
Walla-Walla, Cayuse, and Umatilla tribes.....			1,133 46	1,133 46
Winnebagoes.....	2,805 25			2,805 25
Trust-fund interest due—				
Chickasaw incompetents.....	100 00			100 00
Ottawas and Chippewas.....	230 00			230 00
Contingencies, trust funds.....	72 35			72 35
Incidental expenses, Indian service in—				
Arizona.....	537 42			537 42
California.....	197 84			197 84
Dakota.....	132 70	112 11		20 59
Idaho.....	1,017 15	262 00		755 15
Montana.....	3,589 29	185 50		3,403 79
Nevada.....	3,664 82			3,664 82
Oregon.....	3,470 49	2,390 80		1,079 69
Utah.....	13 45			13 45
Washington.....	19 63			19 63
Wyoming.....	12 81			12 81
Contingencies, Indian Department.....	281 82		76 83	358 65
Civilization and subsistence of Indians on the Malheur reservation.....	3,310 74	3,310 74		
Presents and provisions to Indians.....	70 00			70 00
Vaccination of Indians.....	2,360 40			2,360 40
Buildings at agencies, and repairs.....	52 22			52 22
Expenses of Indian delegations visiting Washington.....	77 00			77 00
Expenses of a general council of Indians in the Indian Territory.....	2,500 00			2,500 00
Collecting and subsisting the Apaches of Arizona and New Mexico.....	786 46	348 45		438 01
Removal of Winnebago Indians of Wisconsin to Indian Territory.....	9 47			9 47
Settlement, subsistence, and support of Modocs now residing within Indian Territory.....	4,186 00			4,186 00
Subsistence of Kansas Indians, reimbursable.....	14,937 99			14,937 99
Subsistence and civilization of the Arickarees, Gros Ventres, and Mandans.....	1,017 62			1,017 62
Subsisting the Sioux Indians on Milk River reservation.....	7,781 73			7,781 73
Support and civilization of the Teton Sioux.....	4,380 91			4,380 91
Payment to Flatheads removed to Jacko reservation, Montana, (reimbursable).....	5,000 00			5,000 00
Subsisting Sioux Indians at Red Cloud and Whetstone agencies.....	6,859 04	6,691 05		167 99
Appraisal and sale of land in Nebraska belonging to Omaha, Pawnee, Otoe and Mis- souri, and the Sac and Fox of Missouri tribes of Indians, reimbursable.....	630 89			630 89
Appraisal and sale of diminished reserve lands of Kaw Indians in Kansas, (reimbursable).....	1,075 73			1,075 73
Indians in Minnesota and Michigan.....	317 11			317 11
Total Department of the Interior.....	762,939 22	18,487 41	3,074 40	747,526 21

B.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1874, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
POST OFFICE DEPARTMENT.				
Salaries, Post Office Department	\$3,195 16			\$3,195 16
Deficiency in postal revenues	1,006,574 51			1,006,574 51
Steamship service between San Francisco, Japan, and China	375,000 00			375,000 00
Steamship service between San Francisco and Sandwich Islands	62,500 00			62,500 00
Rent of house for use of Post Office Department	8 00			8 00
Total Post Office Department	1,447,277 67			1,447,277 67
DEPARTMENT OF AGRICULTURE.				
Salaries, Department of Agriculture	\$1,266 00			\$1,266 00
Collecting agricultural statistics	3,500 00			3,500 00
Purchase and distribution of valuable seeds	95 11			95 11
Museum, Department of Agriculture	57 98			57 98
Furniture, cases, and repairs, Department of Agriculture	897 60			897 60
Library, Department of Agriculture	240 90			240 90
Laboratory, Department of Agriculture	9 51			9 51
Experimental garden, Department of Agriculture	43 17			43 17
Contingent expenses, Department of Agriculture	891 15			891 15
Improvement of grounds, Department of Agriculture	425 09			425 09
Postage, Department of Agriculture	16,550 91			16,550 91
Total Department of Agriculture	23,977 42			23,977 42
DEPARTMENT OF JUSTICE.				
Salaries, Department of Justice	\$2,016 40			\$2,016 40
Rent of building, Department of Justice	01			01
Contingent expenses, Department of Justice	12 40			12 40
Defending claims under convention with Mexico	8,900 00			8,900 00
Prosecution of crimes	2,151 92			2,151 92
Defending suits and claims for seizure of captured and abandoned property			\$22 20	22 20
Prosecution and collection of claims	12,409 03			12,409 03
Current expenses, Reform School, District of Columbia	332 54			332 54
Postage, Department of Justice	9,089 89			9,089 89
Punishing violation of intercourse acts and frauds	808 48			808 48
Penitentiary in Wyoming	3 78			3 78
Salaries and expenses, Metropolitan police	2,553 38			2,553 38
Repairs City-Hall building, District of Columbia	32 71			32 71
Payment of expenses and emoluments of United States marshals, Utah	1,008 86			1,008 86
JUDICIAL.				
Salaries, Justices, &c., Supreme Court	10,724 64			10,724 64
Salaries, district judges	5,266 60			5,266 60
Salaries, district attorneys	314 66			314 66
Salaries, district marshals	50 09			50 09
Expenses of United States courts	115,519 86	\$1,958 67		113,561 19
Support of convicts	1,805 43			1,805 43
Total Department of Justice	173,000 68	1,958 67	22 20	171,064 21

C.—Statement showing the balances of appropriations July 1, 1875, made for the service of the fiscal year ended June 30, 1875, limited by law to the payment of indebtedness incurred during the year for which they were made; the amounts expended for that purpose during the quarter ended September 30, 1875, and the amounts which may be further required or carried to the surplus fund.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
LEGISLATIVE.				
UNITED STATES SENATE.				
Salaries, officers and employes, Senate.....	\$140 27			\$140 27
Contingent expenses, Senate—				
Stationery and newspapers.....			\$327 62	327 62
Clerks to committees, pages, &c.....			1,362 20	1,362 20
Fuel for heating apparatus.....			923 42	923 42
Labor.....	13			13
Miscellaneous items.....	2,000 00			2,000 00
Horses and wagons.....	97 50			97 50
Salary telegraph operator.....	18 48			18 48
HOUSE OF REPRESENTATIVES.				
Salaries and mileage of members and delegates.....	194,296 14	\$120,507 00		73,789 14
Salaries, officers and employes, House of Representatives.....	10,916 93	200 00		10,716 93
Contingent expenses, House of Representatives—				
Clerks to committees, &c.....	2,193 84			2,193 84
Folding documents.....	13,297 25			13,297 25
Newspapers and stationery.....	22 45			22 45
Pages.....	670 00			670 00
Miscellaneous items.....	243 35			243 35
Salaries of Capitol police.....	209 12			209 12
Salary telegraph operator.....	1,200 00			1,200 00
Equestrian statue of Nathaniel Greene.....	45,000 00			45,000 00
CONGRESSIONAL PRINTER.				
Salaries, office of Congressional Printer.....	3,780 60	3,777 60		3 00
Contingent expenses, office of Congressional Printer.....	1,500 00			1,500 00
Public printing and binding.....	183,259 13	128,827 50		54,431 63
Lithographing, engraving, &c.....	22,000 00	1,000 00		21,000 00
LIBRARY OF CONGRESS.				
Salaries, Library of Congress.....	34 72			34 72
Increase of Library of Congress.....	1,500 00	1,500 00		
Contingent expenses, Library of Congress.....	500 00	500 00		
Plans for Library of Congress.....	1,000 00			1,000 00
COURT OF CLAIMS.				
Payment of judgments, Court of Claims.....	604,468 67	105,892 91		498,575 76
Total Legislative.....	1,088,348 58	362,205 01	2,613 24	728,756 81
DEPARTMENT OF STATE.				
Salaries, Department of State.....	\$10,120 13	\$150 00		\$9,970 13
Publishing laws, Department of State.....	28,314 00			28,314 00
Proof-reading, &c., Department of State.....	1,700 00	593 00		1,107 00
Stationery, furniture, &c., Department of State.....	234 90			234 90
Books and maps, Department of State.....	1,364 49			1,364 49
Contingent expenses, Department of State.....	6,520 51	2,602 63		3,917 88
Lithographing, Department of State.....	1,213 65			1,213 65
Additional salary, disbursing clerk, Department of State.....	41 18	41 18		
Editing, publishing, and distributing Revised and Annual Statutes.....	6,394 93	500 00		5,894 93
Postage, Department of State.....	49,285 95	11,061 33		38,224 62
FOREIGN INTERCOURSE.				
Salaries of United States and Spanish Claims Commission.....	2,500 00	2,500 00		
Contingent expenses, United States and Spanish Claims Commission.....	699 01	660 34		38 67
Salaries, United States and Mexican Claims Commission.....	10,000 00	4,000 00		6,000 00
Contingent expenses, United States and Mexican Claims Commission.....	1,000 00	1,000 00		
Salaries of ministers.....	129,509 75	118,989 18		10,520 57
Salaries, secretaries of legation.....	17,120 00	10,150 00		6,970 00
Contingent expenses, foreign missions.....	38,683 22	29,677 91		9,005 31
Salaries of consuls, &c.....	82,926 27	77,775 52		5,150 75
Salaries of interpreters to consulates in China, Japan, and Siam.....	112 60	111 11		1 49
Salaries of marshals for consular courts.....	3,790 71	1,028 51		2,762 20
Expenses for interpreters, guards, &c., in Turkish Dominions.....	1,111 39	689 17		422 22
Contingent expenses, United States consulates.....	40,854 04	26,679 92		14,174 12

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Prisons for American convicts.....	\$11,474 62	\$5,599 90	.....	\$5,874 72
Bringing home criminals.....	4,799 50	774 33	.....	4,025 17
Relief and protection of American seamen.....	72,958 66	6,127 40	.....	66,831 26
Rescuing shipwrecked American seamen.....	2,684 00	600 00	.....	2,084 00
Expenses under the neutrality act.....	20,000 00	.....	.....	20,000 00
Salaries, consular officers not citizens.....	6,763 14	750 00	.....	6,013 14
Loss on bills of exchange, consular service.....	47,977 82	4,803 23	.....	43,174 59
Allowance to widows or heirs of diplomatic officers who die abroad.....	5,000 00	.....	.....	5,000 00
Rent of court-house and jail in Japan.....	1,207 50	.....	.....	1,207 50
Rent of building and grounds, legation in China.....	5,000 00	.....	.....	5,000 00
Repaying to Brazil money erroneously claimed by and paid the United States.....	1,538 53	.....	.....	1,538 53
Total Department of State.....	612,900 50	306,864 66	.....	306,035 84
TREASURY DEPARTMENT.				
Salaries—				
Office of Supervising Architect.....	\$440 00	.....	.....	\$440 00
Office of First Comptroller.....	.....	.....	\$931 40	931 40
Office of Second Comptroller.....	.....	.....	792 11	792 11
Office of Commissioner of Customs.....	.....	.....	849 37	849 37
Office of First Auditor.....	.....	.....	3 01	3 01
Office of Second Auditor.....	.....	.....	744 83	744 83
Office of Third Auditor.....	.....	.....	73 65	73 65
Office of Fourth Auditor.....	.....	.....	151 05	151 05
Office of Fifth Auditor.....	.....	.....	236 86	236 86
Office of Treasurer of United States.....	.....	.....	347 16	347 16
Temporary clerks, office of Treasurer United States.....	.....	.....	12 50	12 50
Office of Comptroller of the Currency.....	13,000 00	.....	1,070 43	14,070 43
Office of Comptroller of the Currency, (national currency, reimbursable).....	.....	.....	1,289 20	1,289 20
Office of Commissioner of Internal Revenue.....	.....	.....	896 32	896 32
Office of Light-house Board.....	.....	.....	101 10	101 10
Bureau of Statistics.....	.....	.....	133 37	133 37
Stationery for Treasury Department.....	652 06	\$2,456 65	.....	.....
Postage for Treasury Department.....	111,900 07	101,825 22	.....	10,074 85
Salaries, Bureau of Engraving and Printing.....	4,309 50	.....	232 60	4,542 10
Labor and expenses, Bureau of Engraving and Printing.....	20,839 71	20,295 95	.....	543 76
Material for work, Bureau of Engraving and Printing.....	143 29	.....	107 43	250 72
Transportation, United States securities.....	73,547 59	7,170 87	.....	66,376 72
INDEPENDENT TREASURY.				
Salaries—				
Office of assistant treasurer at Boston.....	133 44	.....	.....	133 44
Office of depositary at Louisville.....	5,420 00	.....	.....	5,420 00
Office of assistant treasurer at New York.....	4,955 66	.....	585 34	5,541 00
Office of assistant treasurer at Philadelphia.....	.....	.....	57 69	57 69
Contingent expenses, Independent Treasury.....	17,229 55	6,816 14	.....	10,413 41
Salaries, &c., special agents, Independent Treasury.....	1,000 00	9 26	.....	990 74
Checks and certificates of deposit, Independent Treasury.....	4,296 20	1,290 20	.....	3,006 00
Salaries, designated depositaries.....	3,000 00	.....	.....	3,000 00
MINTS AND ASSAY OFFICES.				
Wages of workmen, mint at Philadelphia.....	.....	.....	20,781 20	20,781 20
Contingent expenses, mint at Philadelphia.....	.....	.....	11,169 76	11,169 76
Freight on bullion, mint at Philadelphia.....	669 80	597 50	.....	72 30
Contingent expenses, mint at Carson City, Nev.....	.....	.....	84 16	84 16
Wages of workmen, mint at Charlotte, N. C.....	284 50	.....	.....	284 50
Contingent expenses, mint at Charlotte, N. C.....	93 75	.....	166 96	260 71
Contingent expenses, mint at Denver, Col.....	.....	.....	321 16	321 16
Salaries, mint at San Francisco, Cal.....	.....	.....	269 00	269 00
Wages of workmen, mint at San Francisco, Cal.....	.....	.....	11 96	11 96
Contingent expenses, mint at San Francisco, Cal.....	.....	.....	35 05	35 05
Wages of workmen, assay office, Boise City, Idaho.....	3,470 16	.....	.....	3,470 16
Contingent expenses, assay office, Boise City, Idaho.....	43 95	.....	.....	43 95
Salaries, assay office, New York.....	7,535 60	.....	314 40	7,850 00
Wages of workmen, assay office, New York.....	.....	.....	2,443 11	2,443 11
Recoinage of gold and silver coins.....	18,785 61	.....	.....	18,785 61
Contingent expenses, United States mints and assay offices.....	394 08	344 27	.....	49 81
Loss in redemption, old copper cents.....	2,360 52	.....	.....	2,360 52
Salaries, mint at New Orleans.....	2,680 67	.....	.....	2,680 67
Wages of workmen, mint at New Orleans.....	620 00	.....	.....	620 00
Contingent expenses, mint at New Orleans.....	2,460 75	.....	506 24	2,966 99
Salaries, Director of the Mint.....	.....	.....	280 46	280 46
TERRITORIAL GOVERNMENTS.				
Salaries, governor, &c, Territory of Arizona.....	1,750 00	1,750 00	.....	.....
Legislative expenses, Territory of Arizona.....	5,600 00	.....	.....	5,600 00

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Contingent expenses, Territory of Arizona	\$125 00	\$125 00		
Salaries, governor, &c., Territory of Colorado.....	2,877 77	2,877 77		
Salaries, governor, &c., Territory of Dakota.....	2,125 00	2,125 00		
Legislative expenses, Territory of Dakota			\$1,432 96	\$1,432 96
Salaries, governor, &c., Territory of Idaho	2,974 97	2,974 97		
Salaries, governor, &c., Territory of Montana	2,125 00	2,125 00		
Salaries, governor, &c., Territory of New Mexico	3,000 00	2,740 35		259 65
Contingent expenses, Territory of New Mexico			375 00	375 00
Salaries, governor, &c., Territory of Utah.....	875 00	875 00		
Legislative expenses, Territory of Utah.....			355 77	355 77
Salaries, governor, &c., Territory of Washington	2,250 00	2,250 00		
Salaries, governor, &c., Territory of Wyoming.....	1,822 11	1,822 11		
INTERNAL REVENUE.				
Assessing and collecting internal revenue	694,712 97	195,919 96		498,793 01
Punishment and violation of internal-revenue laws	78,740 93	18,470 27		60,270 66
Stamps, paper, and dies	133,262 34	35,971 67		97,290 67
CUSTOMS SERVICE.				
Expenses of revenue-cutter service	160,970 03	25,650 14		135,319 89
Furniture and repairs of same, for public buildings	36,290 44	34,010 61		2,279 83
Fuel, lights, and water for public buildings	24,853 71	20,038 95		4,814 76
Pay of custodians and janitors	40,000 00			40,000 00
Compensation in lieu of moieties	32,865 82	16,054 05		16,811 77
Repairs and preservation of public buildings	9,328 61	8 34		9,320 27
Heating apparatus for public buildings	97,429 19	33,064 05		64,365 14
Building steam revenue vessel for the Pacific coast	123,900 22	227 70		123,672 52
Collecting information respecting the condition and importance of the fur trade of Alaska	9,212 49			9,212 49
LIGHT-HOUSE ESTABLISHMENT.				
Supplies of light-houses	42,931 03	40,376 54		2,554 49
Repairs and incidental expenses of light-houses			674 43	674 43
Salaries, keepers of light-houses	6,478 63		1,064 35	7,542 98
Expenses of light-vessels	23,395 74	11,477 67		11,918 07
Expenses of buoyage	37,418 64	32,937 58		4,481 06
Expenses of fog-signals			343 62	343 62
Life-saving service	8,688 81	2,515 00		6,173 81
Life-saving service, contingent expenses	313 81	95 93		217 88
TREASURY MISCELLANEOUS.				
Expenses of national currency	1,643 32	1,643 32		
Suppressing counterfeiting and fraud	5,349 07	5,329 07		20 00
Vaults, safes, and locks for public buildings	11,561 84			11,561 84
Plans for public buildings			10 00	10 00
Expenses of inquiry respecting food-fishes	1,113 88	1,113 88		
Salaries, Board of Health, District of Columbia	831 50			831 50
Payment to "New York Tribune" for advertising	839 10	839 10		
Building for Women's Christian Association, District of Columbia	21,116 80	10,320 80		10,796 00
Paper for notes, bonds, and other securities			780 65	780 65
Engraver's tools, machinery, &c.			237 25	237 25
Machinery for maceration of national-bank notes			461 59	461 59
Vessels for the coast survey	4,000 00	4,000 00		
Heating and lighting State, War, and Navy-Department building	6,437 00			6,437 04
Furniture for State, War, and Navy Departments	49,000 00	23,230 17		25,769 83
Penitentiary building at Deer Lodge, Montana	20 00			20 00
Penitentiary building at Steilacoon, Washington Territory	1,134 17	124 20		1,009 97
Total Treasury Department	1,989,631 44	673,890 26	50,734 50	1,368,280 12
WAR DEPARTMENT.				
Salaries—				
Office of Secretary of War	\$24 08		\$322 41	\$346 49
Office of Adjutant General	2,192 53		77	2,193 30
Office of Quartermaster General			14 65	14 65
Office of Commissary General	30 43		26 92	57 35
Office of Paymaster General	349 44		29 67	379 11
Office of Chief Engineer	356 52			356 52
Office of Chief of Ordnance	630 00		580 55	1,210 55
Office of Chief Signal Officer	70 76			70 76
Superintendent, &c., building corner Seventeenth and F streets			90 00	90 00
Superintendent, &c., building corner Fifteenth and G streets	69 17		180 83	250 00
Superintendent building on Tenth street	79 50		170 50	250 00

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Support and treatment of transient paupers.....	\$1,250 00	\$1,250 00		
Postage, War Department	72,524 46	25,865 68		\$46,658 78
MILITARY ESTABLISHMENT.				
Pay, mileage, and general expenses	28,789 95		\$55,283 23	84,073 18
Pay of Military Academy	35,000 42	500 00		34,500 42
Collection and payment of bounty, prize-money, and other claims of colored soldiers and sailors	10,000 00			10,000 00
Subsistence of the Army	73 55		236 13	309 68
Regular supplies of the Quartermaster's department	67,683 81	15,399 54		52,284 27
Incidental expenses	96,182 70	30,164 30		66,018 40
Barracks and quarters	293 97	39 27		254 70
Transportation of the Army and its supplies	544,295 07	235,806 30		308,488 77
Horses for cavalry and artillery	5,167 46		1,033 60	6,201 06
Clothing and camp and garrison equipage	48,729 90	33,014 75		15,715 15
National cemeteries	5,989 11	1,216 57		4,772 54
Medical and Hospital department, (regular)	14,437 59	11,438 23		2,999 36
Construction and repair of hospitals	1,162 34	1,162 34		
Medical and surgical history and statistics	30,000 00			30,000 00
Ordnance, ordnance stores, and supplies	2,621 77		1,814 17	4,435 94
Experimenting with breech-loading cannon	10,000 00	500 00		9,500 00
San Antonio arsenal	50,000 00			50,000 00
Battery on Long Island Head, Mass	7,000 00	7,000 00		
Battery at Finn's Point, opposite Fort Delaware, N. J.	2,000 00			2,000 00
Contingencies of fortifications	1,977 53		4 80	1,982 33
Surveys for military defences	21,037 42	19,205 40		1,832 02
MISCELLANEOUS.				
Expenses of Commanding General's office			55 61	55 61
Expenses of recruiting	51,123 33		1,418 92	52,542 25
Contingencies of Adjutant General's office	300 00		1 23	301 23
Observation and report of storms	2 50		31 25	33 75
Surveys of northern and northwestern lakes			29 81	29 81
Horses and other property lost in the military service	2,149 69	2,149 69		
Refunding to States expenses incurred in raising volunteers	222,309 24			222,309 24
Contingencies of the Army, (regular)	61,063 17	2,573 27		58,489 90
Expenses of military convicts	32,978 70	7,611 48		25,367 22
Support of National Home for Disabled Volunteer Soldiers	350,000 00			350,000 00
Military bridge across the North Platte river near Fort Laramie	5,000 00	5,000 00		
Total War Department	1,784,946 11	399,896 82	61,325 05	1,436,374 34
NAVY DEPARTMENT.				
Postage, Navy Department	\$11,882 66	\$8,701 86		\$3,180 80
NAVAL ESTABLISHMENT.				
Pay of Marine Corps	23 73		\$149 82	173 55
Provisions, Marine Corps	2,731 34			2,731 34
Clothing, Marine Corps	16,979 91		32 50	17,012 41
Fuel, Marine Corps	3,856 00			3,856 00
Military stores, Marine Corps			5 28	5 28
Transportation and recruiting, Marine Corps	1,500 00			1,500 00
Naval Academy			16 74	16 74
Navy yard at Pensacola, Fla	79,500 00	1,009 00		78,491 00
Navy yard at Mare Island, Cal	1,659 77	800 24		859 53
Naval station at League Island, Pa	195 48	193 24		2 24
Naval station at New London, Conn	56			56
Naval asylum at Philadelphia, Pa	10,572 28	10,486 53		85 75
Contingent, Yards and Docks	3,972 90	3,386 59		586 31
Maintenance, Yards and Docks	28,096 56	24,510 44		3,586 12
Repairs and preservation at navy yards	24,921 44	16,306 44		8,615 00
Civil establishment, navy yard at—				
Kittery, Maine	540 00		391 86	931 86
Charlestown, Mass	339 40		277 09	616 49
Brooklyn, N. Y	1,229 40	125 00		1,104 40
Philadelphia, Pa	1,454 77		17 69	1,472 46
Washington, D. C	876 76	819 89		56 87
Norfolk, Va	1,772 59		95 34	1,867 93
Pensacola, Fla	1,690 00			1,690 00
Mare Island, Cal	1,122 20		82 49	1,204 69
Civil establishment, naval station at League Island, Pa	1,926 98			1,926 98
Equipment of vessels	7,782 02	7,440 39		341 63
Contingent, Equipment and Recruiting	2,046 97	1,627 73		419 24

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Navigation and navigation supplies	\$4,094 73		\$223 98	\$4,318 71
Contingent, Navigation	2,021 95	\$1,047 61		974 34
Hydrographic work	66		405 12	405 78
Naval Observatory	207 63	145 98		61 65
Nautical Almanac	3,201 24	2,844 00		357 24
Refracting telescope	4,772 00	44 00		4,728 00
Tower for refracting telescope	19 50			19 50
Ordnance and ordnance stores	4,285 51	4,026 91		258 60
Contingent, Ordnance	297 00	295 00		2 00
Torpedo corps	19,015 82	19,008 04		7 78
Magazine at Norfolk	16,062 00	15,290 00		772 00
Construction and repair	4,372 33	4,160 81		211 52
Repairs on double-turreted monitors			80 36	80 36
Steam machinery	4,070 98	3,294 26		786 72
Provisions, Navy	5,457 31	4,595 30		862 01
Contingent, Provisions and Clothing	1,416 02	504 30		911 72
Surgeons' necessaries and appliances	297 91	294 90		3 01
Repair and improvement of hospitals	1,526 13	1,504 89		21 24
Civil establishment, Medicine and Surgery	2,058 00	1,828 99		229 01
Contingent, Medicine and Surgery	1,401 19	1,380 07		21 12
Pay of the Navy	19,174 12	11,292 96		17,881 16
Contingent, Navy	2,421 71	1,610 46		811 25
Total Navy Department	302,847 46	148,575 83	1,778 27	166,059 90
INTERIOR DEPARTMENT.				
Salaries, office of Secretary of the Interior			\$2 42	\$2 42
Salaries of watchmen, Department of the Interior			1 08	1 08
Rent of building for Interior Department	\$2,250 00	\$2,250 00		
Salaries—				
General Land Office			12 96	12 96
Office of Commissioner of Indian Affairs			9 77	9 77
Office of Commissioner of Patents	171 21	168 73		2 48
Plates for Patent Office Official Gazette	51 70			51 70
Salaries, office of Commissioner of Education			9 00	9 00
Postage, Interior Department	97,104 53	57,693 73		39,410 80
PUBLIC LANDS.				
Salaries, office of surveyor general of Arizona	1,811 14	1,762 00		49 14
Contingent expenses, office of surveyor general of Arizona	860 35	614 67		245 68
Salaries, office of surveyor general of California	4,039 67	4,039 67		
Contingent expenses, office of surveyor general of California	1,988 25	1,895 08		93 17
Salaries, office of surveyor general of Colorado	2,325 00	2,325 00		
Contingent expenses, office of surveyor general of Colorado	1,550 18	530 60		1,019 58
Salaries, office of surveyor general of Dakota	1,960 88	1,960 17		71
Contingent expenses, office of surveyor general of Dakota	535 82	535 35		47
Salaries, office surveyor general of Florida	901 67	900 01		1 66
Contingent expenses, office of surveyor general of Florida	597 59	597 59		
Salaries, office of surveyor general of Idaho	1,900 00	1,393 68		506 32
Contingent expenses, office of surveyor general of Idaho	1,002 50	475 50		527 00
Salaries, office of surveyor general of Kansas	3,043 48	2,721 42		322 06
Contingent expenses, office of surveyor general of Kansas	759 92	398 35		361 57
Salaries, office of surveyor general of Louisiana	545 56	500 00		45 56
Contingent expenses, office of surveyor general of Louisiana	299 07	299 05		02
Salaries, office of surveyor general of Minnesota	1,912 90	1,912 90		
Contingent expenses, office of surveyor general of Minnesota	1,238 69	1,041 40		197 29
Salaries, office of surveyor general of Montana	2,150 00	2,147 81		2 19
Contingent expenses, office of surveyor general of Montana	406 44	406 44		
Salaries, office of surveyor general of Nebraska and Iowa	2,075 00	2,075 00		
Contingent expenses, office of surveyor general of Nebraska and Iowa	1,516 65	933 63		583 02
Salaries, office of surveyor general of Nevada	2,570 83	2,325 00		245 83
Contingent expenses, office of surveyor general of Nevada	1,556 25	1,330 00		226 25
Salaries, office of surveyor general of New Mexico	1,650 46	1,649 72		74
Contingent expenses, office of surveyor general of New Mexico	419 69	397 68		22 01
Salaries, office of surveyor general of Oregon	1,856 52	1,856 52		
Contingent expenses, office of surveyor general of Oregon	786 22	368 68		417 54
Salaries, office of surveyor general of Utah	1,925 00	1,925 00		
Contingent expenses, office of surveyor general of Utah	789 80	780 93		8 87
Salaries, office of surveyor general of Washington Territory	1,825 00	1,823 90		1 10
Contingent expenses, office of surveyor general of Washington Territory	486 22	483 23		2 99
Salaries, office of surveyor general of Wyoming	2,215 24	2,201 38		13 86
Contingent expenses, office of surveyor general of Wyoming	1,321 38	402 26		919 12
Salary, recorder of land titles in Missouri	125 00	125 00		
Salaries and commissions of registers and receivers	142,989 15		959 30	143,948 45
Contingent expenses of land offices	7,406 10	1,281 25		6,124 85

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures dur- ing quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Expenses of depositing public moneys.....	\$8,855 93	\$139 95		\$8,715 98
Depredations on public timber.....	4,629 80	1,390 59		3,239 21
Surveying public lands in—				
Arizona.....	10,000 00	3,375 78		6,624 22
California.....	55,195 95	4,697 27		50,498 68
Colorado.....	1 47			1 47
Dakota.....	118 80			118 80
Florida.....	10,000 00			10,000 00
Idaho.....	8,640 69	8,594 17		46 52
Kansas.....	3,105 75			3,105 75
Louisiana.....	11,935 00	3,865 12		8,069 88
Minnesota.....	2,717 13	2,084 34		632 79
Montana.....	23 32			23 32
Nebraska.....	6,366 26	6,366 26		
Nevada.....	664 27	511 16		153 11
New Mexico.....	165 73			165 73
Oregon.....	16,791 35	10,652 92		6,138 43
Utah.....	10 71			10 71
Washington Territory.....	2,256 00	2,215 81		40 19
Survey of Indian reservations.....	117,657 30	59,195 36		58,461 94
Surveying land of the Cherokees of North Carolina.....	14,208 65	2,048 66		12,159 99
Examination of the public surveys.....	9,800 22	96 00		9,704 22
PENSIONS.				
Army pensions.....	35,069 65		\$110,022 26	145,091 91
Navy pensions.....	15,151 73		12,649 88	27,801 61
INDIAN AFFAIRS.				
Pay of special agents.....	1,348 15			1,348 15
Pay of superintendents and Indian agents.....	1,869 30	219 95		1,649 35
Pay of interpreters.....	668 05	251 46		416 59
Travelling expenses of Indian inspectors.....	2,011 39			2,011 39
Pay of Indian inspectors.....	2,873 32	107 14		2,766 18
Fulfilling treaties with—				
Apaches, Kiowas, and Comanches.....	4,188 77	2,952 32		1,236 45
Assinaboines.....	4,116 41	3,890 90		225 51
Blackfeet, Bloods, and Piegiens.....	14,681 12	8,212 17		6,468 95
Cheyennes and Arapahoes.....	551 34			551 34
Chippewas of the Mississippi.....	196 04			196 04
Chippewas—Pillager and Lake Winnebagoishish bands.....	49 07			49 07
Confederated tribes and bands in Middle Oregon.....			166 67	166 67
Crows.....	36,330 37	9,267 22		27,063 15
Delawares.....	1,819 50			1,819 50
Flatheads and other confederated tribes.....	500 00			500 00
Gros Ventres.....	4,142 73			4,142 73
Mixed Shoshones, Bannocks, and Sheepeaters.....	113 15	113 15		
Miamies of Eel River.....	1,100 00			1,100 00
Miamies of Indiana.....	11,062 89			11,062 89
Navajoes.....	2,637 90	2,637 90		
Nez Percés.....	30 35			30 35
Nisqually, Puyallup, and other tribes and bands.....			1,134 21	1,134 21
Northern Cheyennes and Arapahoes.....	39,418 96	32,686 56		6,732 40
Pawnees.....	467 51			467 51
River Crows.....	10,667 17			10,667 17
Senecas of New York.....	11,902 50	11,902 50		
Shoshones—Eastern, Western, Northwestern, and Goship bands.....	7,669 48	375 00		7,294 48
Shoshones and Bannocks.....	9,251 33			9,251 33
Six Nations of New York.....	783 49	12 05		771 44
Sioux of different tribes, including Santee Sioux in Nebraska.....	246,119 83	210,003 25		36,116 58
Tabeguache, Muache, Capote, Weeminuche, Yampa, Grand River, and Uintah bands of Utes.....	23,871 33	3,795 73		20,075 60
Winnebagoes.....	42,828 03	8,750 00		34,078 03
Trust-fund interest due—				
Chickasaw incompetents.....	100 00			100 00
Chickasaw national fund.....	7,740 00			7,740 00
Ottawas and Chippewas.....	230 00			230 00
Pottawatomies, education.....	3,350 00			3,350 00
Contingencies, trust funds.....			4 10	4 10
Interest due Osage Indians on avails of diminished reserve lands in Kansas.....	3,333 33			3,333 33
Incidental expenses, Indian service in—				
Arizona.....	2,249 74	134 08		2,115 66
California.....	1,402 62	36 15		1,366 47
Colorado.....	23 00			23 00
Dakota.....	189 10	40 70		148 40
Montana.....	800 74	142 55		658 19
Nevada.....	192 42	12 50		179 92
New Mexico.....	5,834 83	5,421 95		412 88
Oregon.....	4,082 68	923 97		3,158 71

C.—Statement of balances of appropriations July 1, 1875, made for fiscal year ended June 30, 1875, &c.—Continued.

Appropriations.	Balances unexpended June 30, 1875.	Net expenditures during quarter ended September 30, 1875.	Excess of repayments during quarter ended September 30, 1875.	Amounts which may be further required or carried to the surplus fund.
Incidental expenses, Indian service in—				
Utah	\$41 50			\$41 50
Washington			\$2,592 53	2,592 53
Wyoming	75 04	\$21 97		53 07
Contingencies, Indian department	185 20		396 91	582 11
Presents and provisions to Indians	1,143 23	25 00		1,118 23
Vaccination of Indians	1,243 40	72 00		1,171 40
Buildings at agencies, and repairs	46 28		937 74	984 02
Expenses of Indian commissioners	3,788 91	2,657 46		1,131 45
Presents to Sioux of Red Cloud and Whetstone agencies	25,000 00	20,600 00		4,400 00
Expenses of investigating alleged frauds in paying bounties to Indian home guards.	2,834 15			2,834 15
Transportation of North Carolina Indians	3,503 65			3,503 65
Collecting and subsisting the Apaches of Arizona and New Mexico	122,434 37	60,758 56		61,675 81
Settlement, subsistence, and support of Shoshones, Bannocks, and other bands in Idaho and Southeastern Oregon	443 23			443 23
Subsistence of the Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas	48,652 83	26,047 43		22,605 40
Subsistence and civilization of the Arickarees, Gros Ventres, and Mandans	5,352 94	388 00		4,964 94
Subsisting Sioux Indians at Red Cloud and Whetstone agencies	130 44	130 44		
Support and civilization of Sioux at Fort Peck agency	15,101 95	14,717 95		384 00
School-building for Sac and Fox agency, Iowa	1,200 00	1,200 00		
Pay and expenses of commissioners to appraise Round Valley Indian reservation	3,414 69	166 50		3,248 19
Total Department of the Interior	1,381,676 52	640,436 23	128,898 83	863,717 67
POST OFFICE DEPARTMENT.				
Salaries, Post Office Department	\$463 11			\$463 11
Deficiency in postal revenues	1,597,842 00	\$500,000 00		1,097,842 00
Steamship service between San Francisco, Japan, and China	125,000 00	125,000 00		
Steamship service between San Francisco and Sandwich Islands	75,000 00			75,000 00
Steamship service between United States and Brazil	37,500 00	37,500 00		
Postage, Post Office Department	465,224 50	281,177 50		184,047 00
Total Post Office Department	2,301,029 61	943,677 50		1,357,352 11
DEPARTMENT OF AGRICULTURE.				
Salaries, Department of Agriculture	\$52 40			\$52 40
Collecting agricultural statistics	3,000 00	\$500 00		2,500 00
Purchase and distribution of valuable seeds	3,400 00	3,400 00		
Museum, Department of Agriculture	2,200 00	500 00		1,700 00
Furniture, cases, and repairs, Department of Agriculture	700 00	500 00		200 00
Library, Department of Agriculture	600 00	200 00		400 00
Laboratory, Department of Agriculture	100 00	100 00		
Experimental garden, Department of Agriculture	500 00	500 00		
Contingent expenses, Department of Agriculture	4,000 00	2,400 00		1,600 00
Improvement of grounds, Department of Agriculture	600 00	600 00		
Postage, Agricultural Department	10,860 00	1,250 00		9,610 00
Publishing report of Commissioner of Agriculture	3,300 00	3,000 00		300 00
Total Department of Agriculture	29,312 40	12,950 00		16,362 40
DEPARTMENT OF JUSTICE.				
Salaries, Department of Justice	\$669 98			\$669 98
Rent of building, Department of Justice	04			04
Contingent expenses, Department of Justice			\$279 94	279 94
Defending claims under convention with Mexico	9,500 00		425 00	9,925 00
Prosecution of crimes	1,500 00		1,368 59	2,868 59
Defending suits and claims for seizure of captured and abandoned property	4,000 00	\$3,603 80		396 20
Prosecution and collection of claims	7,640 00		18 40	7,658 40
Postage, Department of Justice	6,250 00	1,374 00		4,876 00
Support of convicts	3,142 54	2,421 03		721 51
Punishing violations of intercourse acts and frauds	1,589 85	503 15		1,086 70
Salaries and expenses, Metropolitan police			36 39	36 39
JUDICIAL.				
Salaries, district judges	15,170 76	1,386 04		13,784 72
Salaries, district attorneys	536 72	33 50		503 22
Salaries, district marshals	129 18			129 18
Expenses of United States courts	109,795 20	75,827 05		33,968 15
Total Department of Justice	159,924 27	85,148 57	2,128 32	76,904 02

D.—Statement of appropriations contained in the annual appropriation acts, made specifically for the service of the fiscal year ending June 30, 1876, and limited by the terms of section 5 of the act of July 12, 1870, (16 Stats., 251,) to the service of that year; together with a statement of the expenditures for the first quarter of the fiscal year, and of the amounts available and required for the service of the remaining three quarters.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
LEGISLATIVE.			
UNITED STATES SENATE.			
Salaries and mileage of Senators	\$400,000 00	\$90,000 00	\$310,000 00
Salaries, officers and employés, Senate	146,268 80	36,392 20	109,876 60
Contingent expenses, Senate—			
Stationery and newspapers	14,250 00	3,000 00	11,250 00
Clerks to committees, pages, &c.	46,350 00	455 00	45,895 00
Fuel for heating apparatus	10,000 00	6,000 00	4,000 00
Furniture and repairs	9,000 00	3,000 00	6,000 00
Labor	18,000 00	7,000 00	11,000 00
Folding documents	8,000 00	2,000 00	6,000 00
Packing-boxes	740 00	500 00	240 00
Miscellaneous items	30,000 00	1,000 00	29,000 00
Salaries of Capitol police	26,300 00		26,300 00
Reporting proceedings and debates, Senate	25,000 00		25,000 00
Postage, office Secretary of the Senate	100 00		100 00
Contingent expenses, horses and wagons	6,000 00	1,100 00	4,900 00
HOUSE OF REPRESENTATIVES.			
Salaries and mileage of members and delegates	1,650,000 00	227,825 00	1,422,175 00
Salaries, officers and employés, House of Representatives	239,624 30	52,034 29	187,590 01
Contingent expenses, House of Representatives—			
Clerks to committees, &c.	22,500 00		22,500 00
Cartage	2,000 00		2,000 00
Folding documents	25,000 00	11,336 36	13,663 64
Fuel	10,500 00	8,000 00	2,500 00
Horses and carriages	7,300 00		7,300 00
Furniture and repairs	10,000 00		10,000 00
Packing-boxes	3,020 00		3,020 00
Newspapers and stationery	43,750 00	7,925 80	35,824 20
Pages	14,840 00		14,840 00
Miscellaneous items	29,000 00	20,000 00	9,000 00
Salaries of Capitol police	26,300 00	13,149 33	13,150 67
Expenses of preparing and compiling Congressional Directory	1,200 00	600 00	600 00
Postage, House of Representatives	300 00		300 00
CONGRESSIONAL PRINTER.			
Salaries, office of Congressional Printer	15,117 60	3,781 20	11,336 40
Contingent expenses, office of Congressional Printer	2,500 00		2,500 00
Public printing and binding	1,635,507 66	260,039 69	1,375,467 97
Lithographing, engraving, &c.	30,000 00		30,000 00
LIBRARY OF CONGRESS.			
Salaries, Library of Congress	29,340 00	7,400 00	21,940 00
Increase of Library of Congress	15,000 00	1,000 00	14,000 00
Contingent expenses, Library of Congress	2,500 00		2,500 00
Works of art for the Capitol	15,000 00	6,000 00	9,000 00
BOTANIC GARDEN.			
Salaries, Botanic Garden	12,146 00	3,146 00	9,000 00
Improving Botanic Garden	7,900 00	5,000 00	2,900 00
Improving buildings, Botanic Garden	3,550 00	2,000 00	1,550 00
COURT OF CLAIMS.			
Salaries of judges, &c., Court of Claims	29,840 00	7,460 00	22,380 00
Contingent expenses, Court of Claims	3,000 00	1,500 00	1,500 00
Reporting decisions, Court of Claims	2,000 00	2,000 00	
Payment of judgments, Court of Claims	400,000 00		400,000 00
Furniture and repairs, Court of Claims	550 00		550 00
Total Legislative	5,029,294 36	790,644 87	4,238,649 49
EXECUTIVE.			
EXECUTIVE PROPER.			
Salary of the President	\$50,000 00	\$12,500 00	\$37,500 00
Salary of the Vice-President	8,000 00	2,000 00	6,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Salaries, Executive office	\$13,800 00	\$6,900 00	\$6,900 00
Contingent expenses, Executive office	6,000 00	2,500 00	3,500 00
Postage, Executive office	600 00		600 00
Total Executive	78,400 00	23,900 00	54,500 00
DEPARTMENT OF STATE.			
Salaries, Department of State	\$126,980 00	\$29,543 20	\$97,436 80
Publishing laws, Department of State	50,000 00		50,000 00
Proof-reading, &c., Department of State	3,000 00	109 50	2,890 50
Stationery, furniture, &c., Department of State	5,000 00	1,500 00	3,500 00
Books and maps, Department of State	2,500 00		2,500 00
Contingent expenses, Department of State	22,570 00	7,200 00	15,370 00
Lithographing, Department of State	2,500 00	401 10	2,098 90
Postage, Department of State	25,000 00		25,000 00
Editing, publishing, &c., revised and annual Statutes	30,000 00		30,000 00
FOREIGN INTERCOURSE.			
Salaries of United States and Spanish Claims Commission	10,000 00	842 40	9,157 60
Contingent expenses, United States and Spanish Claims Commission	5,000 00	1,222 10	3,777 90
Salaries, United States and Mexican Claims Commission	23,700 00	2,300 09	21,399 91
Contingent expenses, United States and Mexican Claims Commission	5,000 00		5,000 00
Salaries of ministers	350,500 00	58,404 58	292,095 42
Salaries, secretaries of legation	38,500 00	5,000 00	33,500 00
Salary of private amanuensis of minister to Great Britain	2,500 00	2,500 00	
Contingent expenses, foreign missions	100,000 00	15,500 00	84,500 00
Salaries of consuls, &c.	460,700 00	931 20	459,768 80
Salaries of interpreters to consulates in China, Japan, and Siam	17,000 00		17,000 00
Salaries of marshals for consular courts	7,700 00		7,700 00
Expenses for interpreters, guards, &c., in Turkish Dominions	3,000 00		3,000 00
Contingent expenses, United States consulates	131,850 00	9,495 20	122,354 80
Prisons for American convicts	21,250 00		21,250 00
Bringing home criminals	5,000 00		5,000 00
Relief and protection of American seamen	100,000 00	1,057 00	98,943 00
Rescuing shipwrecked American seamen	5,000 00	600 00	4,400 00
Expenses under the neutrality act	20,000 00		20,000 00
Annual expenses of Cape Sparte light	285 00		285 00
Salaries of consular officers not citizens	10,000 00		10,000 00
Loss on bills of exchange, consular service	48,000 00		48,000 00
Allowance to widows or heirs of consular officers who die abroad	5,000 00		5,000 00
Rent of court-house and jail in Japan	5,000 00		5,000 00
Rent of buildings and grounds, legation in China	5,000 00		5,000 00
Total Department of State	1,647,535 00	136,606 37	1,510,928 63
TREASURY DEPARTMENT.			
Salaries, office of—			
Secretary of Treasury	\$346,500 00	\$86,000 00	\$260,500 00
Secretary of Treasury, (loans and currency)	139,591 00	34,745 65	104,845 35
Supervising Architect	32,540 00	8,100 00	24,440 00
First Comptroller	75,800 00	19,500 00	56,300 00
Second Comptroller	110,600 00	28,000 00	82,600 00
Commissioner of Customs	49,760 00	13,000 00	36,760 00
First Auditor	58,780 00	15,000 00	43,780 00
First Auditor, (loans)	18,600 00	4,700 00	13,900 00
Second Auditor	245,280 00	65,000 00	180,280 00
Third Auditor	237,000 00	60,000 00	177,000 00
Fourth Auditor	81,000 00	21,000 00	60,000 00
Fifth Auditor	50,280 00	13,500 00	36,780 00
Sixth Auditor	313,320 00	81,000 00	232,320 00
Treasurer of United States	180,460 00	46,000 00	134,460 00
Treasurer of United States, (loans)	214,780 00	54,000 00	160,780 00
Treasurer of United States, (national currency, reimbursable)	166,656 00	43,000 00	123,656 00
Register	78,220 00	21,000 00	57,220 00
Register, (loans)	167,940 00	45,000 00	122,940 00
Comptroller of the Currency	126,780 00	31,500 00	95,280 00
Comptroller of the Currency, (national currency, reimbursable)	34,840 00	9,000 00	25,840 00
Commissioner of Internal Revenue	322,800 00	82,000 00	240,800 00
Light-house Board	14,360 00	4,000 00	10,360 00
Bureau of Statistics	59,440 00	15,000 00	44,440 00
Salaries, temporary clerks—			
Treasury Department	40,000 00	10,500 00	29,500 00
Office of Treasurer	20,000 00	6,500 00	13,500 00
Stationery for Treasury Department	50,000 00	59,337 34	
Contingent expenses—			
Binding newspapers, &c.	10,000 00	3,000 00	7,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Contingent expenses—			
Investigation of accounts, travelling expenses, &c.....	\$4,000 00	\$500 00	\$3,500 00
Freight, telegrams, &c.....	7,000 00	1,000 00	6,000 00
Rent.....	13,000 00	2,000 00	11,000 00
Horses and wagons.....	6,000 00	1,500 00	4,500 00
Ice.....	9,000 00	2,500 00	6,500 00
Fuel, &c.....	12,000 00	10,000 00	2,000 00
Gas.....	20,000 00	4,500 00	15,500 00
Carpets and repairs.....	14,000 00	8,000 00	6,000 00
Furniture, &c.....	24,500 00	6,000 00	18,500 00
Miscellaneous items.....	25,000 00	5,000 00	20,000 00
Postage for Treasury Department.....	100,000 00		100,000 00
INDEPENDENT TREASURY.			
Salaries, office of—			
Assistant treasurer at Baltimore.....	23,940 00	5,985 00	17,955 00
Assistant treasurer at Boston.....	34,260 00	8,565 00	25,695 00
Assistant treasurer at Charleston.....	9,560 00	4,780 00	4,780 00
Assistant treasurer at Chicago.....	15,060 00	3,370 97	11,689 03
Assistant treasurer at Cincinnati.....	15,260 00	3,815 00	11,445 00
Assistant treasurer at New Orleans.....	15,780 00	3,945 00	11,835 00
Assistant treasurer at New York.....	150,980 00	37,108 11	113,871 89
Assistant treasurer at Philadelphia.....	40,020 00	20,010 00	20,010 00
Assistant treasurer at St. Louis.....	15,800 00	3,950 00	11,850 00
Assistant treasurer at San Francisco.....	25,160 00	6,290 00	18,870 00
Depositary at Santa Fé.....	4,640 00	1,160 00	3,480 00
Depositary at Tucson.....	1,500 00	375 00	1,125 00
Depositary at Pittsburg, Pa.....	3,920 00	980 00	2,940 00
Contingent expenses, Independent Treasury.....	70,000 00	8,855 80	61,144 20
Salaries, &c., special agents, Independent Treasury.....	4,000 00	2,060 00	1,940 00
Checks and certificates of deposit, Independent Treasury.....	13,000 00	218 40	12,781 60
Salaries, designated depositaries.....	3,000 00		3,000 00
MINTS AND ASSAY OFFICES.			
Salaries, mint at Philadelphia.....	37,300 00	10,200 00	27,100 00
Wages of workmen, mint at Philadelphia.....	250,000 00	63,000 00	187,000 00
Contingent expenses, mint at Philadelphia.....	75,000 00	18,900 00	56,100 00
Freight on bullion, mint at Philadelphia.....	10,000 00	1,068 00	8,932 00
Salaries, mint at Carson City, Nev.....	24,600 00	6,150 00	18,450 00
Wages of workmen, mint at Carson City, Nev.....	85,000 00	28,000 00	57,000 00
Contingent expenses, mint at Carson City, Nev.....	100,000 00	30,000 00	70,000 00
Salaries, mint at Denver, Col.....	10,400 00	2,601 00	7,799 00
Wages of workmen, mint at Denver, Col.....	15,335 00	3,869 00	11,466 00
Contingent expenses, mint at Denver, Col.....	5,000 00	2,000 00	3,000 00
Salaries, mint at San Francisco, Cal.....	25,700 00	4,330 00	21,370 00
Wages of workmen, mint at San Francisco, Cal.....	275,000 00	49,000 00	226,000 00
Contingent expenses, mint at San Francisco, Cal.....	86,000 00	38,547 80	47,452 20
Salaries, assay office, Boise City, Idaho.....	5,000 00	1,250 00	3,750 00
Wages of workmen, assay office, Boise City, Idaho.....	1,500 00	375 00	1,125 00
Contingent expenses, assay office, Boise City, Idaho.....	1,000 00	249 99	750 01
Salaries, assay office, New York.....	35,650 00	9,000 00	26,650 00
Wages of workmen, assay office, New York.....	80,000 00	19,000 00	61,000 00
Contingent expenses, assay office, New York.....	50,000 00	12,500 00	37,500 00
Recoinage of gold and silver coins.....	2,000 00		2,000 00
Salaries, office Director of the Mint.....	16,960 00	4,500 00	12,460 00
Contingent expenses, United States mints and assay offices.....	1,700 00	852 14	847 86
Salaries, mint at New Orleans.....	6,000 00	589 60	5,410 40
Wages of workmen, mint at New Orleans.....	3,000 00	506 15	2,493 85
Contingent expenses, mint at New Orleans.....	3,000 00	250 00	2,750 00
Annealing furnaces.....	15,000 00		15,000 00
TERRITORIAL GOVERNMENTS.			
Salaries, governor, &c., Territory of Arizona.....	15,500 00	2,250 00	13,250 00
Legislative expenses, Territory of Arizona.....	3,000 00		3,000 00
Contingent expenses, Territory of Arizona.....	1,000 00		1,000 00
Salaries, governor, &c., Territory of Colorado.....	15,000 00		15,000 00
Legislative expenses, Territory of Colorado.....	22,000 00		22,000 00
Contingent expenses, Territory of Colorado.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Dakota.....	15,000 00	1,625 00	13,375 00
Legislative expenses, Territory of Dakota.....	2,000 00	945 00	1,055 00
Contingent expenses, Territory of Dakota.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Idaho.....	15,000 00		15,000 00
Legislative expenses, Territory of Idaho.....	1,600 00		1,600 00
Contingent expenses, Territory of Idaho.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Montana.....	15,000 00	1,812 50	13,187 50
Legislative expenses, Territory of Montana.....	22,680 00	10,000 00	12,680 00
Contingent expenses, Territory of Montana.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of New Mexico.....	15,500 00	1,875 00	13,625 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Legislative expenses, Territory of New Mexico.....	\$22,043 90	\$3,500 00	\$18,543 90
Contingent expenses, Territory of New Mexico.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Utah.....	15,000 00	2,125 00	12,875 00
Legislative expenses, Territory of Utah.....	25,000 00	14,241 50	10,758 50
Contingent expenses, Territory of Utah.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Washington.....	15,000 00	750 00	14,250 00
Legislative expenses, Territory of Washington.....	22,000 00	17,020 00	4,980 00
Contingent expenses, Territory of Washington.....	1,000 00	500 00	500 00
Salaries, governor, &c., Territory of Wyoming.....	15,000 00	1,375 00	13,625 00
Legislative expenses, Territory of Wyoming.....	22,000 00	1,000 00	21,000 00
Contingent expenses, Territory of Wyoming.....	1,000 00	500 00	500 00
Salaries, Board of Health, District of Columbia.....	10,000 00	2,500 00	7,500 00
Fire department, District of Columbia.....	25,000 00		25,000 00
Expenses, Board of Health, District of Columbia.....	26,117 50	9,117 50	17,000 00
Salaries, inspectors of gas and metres, District of Columbia.....	3,000 00	750 00	2,250 00
COAST SURVEY.			
Survey of the Atlantic and Gulf coasts.....	360,000 00	104,000 00	256,000 00
Survey of the western coast.....	231,000 00	65,000 00	166,000 00
Geodetic surveying, Coast Survey.....	50,000 00	14,000 00	36,000 00
Vessels for the Coast Survey.....	145,000 00	74,000 00	71,000 00
Publishing observations, Coast Survey.....	8,000 00	2,000 00	6,000 00
Repairs of vessels for Coast Survey.....	41,000 00	18,000 00	23,000 00
General expenses, Coast Survey.....	27,000 00	5,000 00	22,000 00
INTERNAL REVENUE.			
Punishment for violation of internal-revenue laws.....	100,000 00	3,524 81	96,475 19
Stamps, paper, and dies.....	500,000 00	72,411 41	427,588 59
Salaries and expenses of collectors of internal revenue.....	2,151,000 00	464,759 72	1,686,240 28
Salaries and expenses of supervisors and subordinate officers of internal revenue.....	2,300,000 00	289,817 02	2,010,182 98
CUSTOMS SERVICE.			
Expenses of revenue-cutter service.....	1,027,883 40	173,399 25	854,484 15
Furniture and repairs of same for public buildings.....	150,000 00	39,600 00	110,400 00
Fuel, lights, and water for public buildings.....	300,000 00	139,576 32	160,423 68
Pay of custodians and janitors.....	100,000 00	21,000 00	79,000 00
Compensation in lieu of moieties.....	200,000 00		200,000 00
Repairs and preservation of public buildings.....	250,000 00	66,492 89	183,507 11
Heating apparatus for public buildings.....	200,000 00	10,596 12	189,403 88
Salaries and travelling expenses of agents at seal fisheries in Alaska.....	13,350 00		13,350 00
Metric standard of weights and measures.....	7,600 00		7,600 00
LIGHT-HOUSE ESTABLISHMENT.			
Supplies of light-houses.....	380,000 00	67,725 60	312,274 40
Repairs and incidental expenses of light-houses.....	325,000 00	53,758 50	271,241 50
Salaries, keepers of light-houses.....	585,000 00	128,285 79	456,714 21
Expenses of light-vessels.....	230,000 00	43,935 21	186,064 79
Expenses of buoyage.....	325,000 00	78,481 17	246,518 83
Expenses of fog-signals.....	50,000 00	12,200 00	37,800 00
Inspecting lights.....	4,000 00		4,000 00
LIFE-SAVING SERVICE.			
Life-saving service.....	201,580 00	3,775 00	197,805 00
Life-saving service, contingent expenses.....	30,000 00	5,077 74	24,922 26
TREASURY MISCELLANEOUS.			
Expenses of national currency.....	200,000 00	36,369 40	163,630 60
Suppressing counterfeiting and fraud.....	125,000 00	30,254 35	94,745 65
Collecting mining statistics.....	15,000 00		15,000 00
Collecting statistics relating to commerce.....	20,000 00	2,500 00	17,500 00
Vaults, safes, and locks for public buildings.....	75,000 00	30,000 00	45,000 00
Plans for public buildings.....	5,000 00	4,996 00	4 00
Expenses of inquiry respecting food-fishes.....	5,000 00	3,500 00	1,500 00
Illustrations for report on food-fishes.....	1,000 00	500 00	500 00
Propagation of food-fishes.....	47,500 00	18,500 00	29,000 00
Collection of captured and abandoned property, records and evidence respecting same.....	19,369 50	421 20	18,948 30
Expenses of operating macerating machine.....	3,000 00	1,000 00	2,000 00
Examination of rebel archives and records of captured and abandoned property.....	6,000 00	1,010 92	4,989 08
Salaries, Bureau of Engraving and Printing.....	30,509 50	10,000 00	20,509 50
Labor and expenses, Bureau of Engraving and Printing.....	1,125,000 00	455,328 89	669,671 11
Paper for notes, bonds, and other securities.....	250,000 00	110,000 00	140,000 00
Material for work of engraving and printing.....	200,000 00	95,997 00	104,003 00
Transportation of United States securities.....	50,000 00	1,372 10	48,627 90
Engravers' tools, machinery, &c.....	50,000 00	15,000 00	35,000 00
General expenses of District of Columbia.....	1,060,000 00		1,060,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
International Exhibition of 1876—			
War Department	\$131,000 00	\$27,951 61	\$103,048 39
Navy Department	98,700 00	18,029 02	80,670 98
Interior Department	112,000 00	21,548 39	90,451 61
Treasury Department	4,800 00		4,800 00
Post Office Department	4,900 00		4,900 00
Agricultural Department	47,000 00	10,064 52	36,935 48
Smithsonian Institute	57,000 00	20,106 46	36,893 54
Building fund	75,000 00	20,000 00	55,000 00
Commission on Food-fishes	3,300 00	3,300 00	
Contingent expenses	20,000 00	3,000 00	17,000 00
Relief of Jacob Parmerter, of Plattsburgh, N. Y.	684 10	684 10	
Total Treasury Department	19,631,469 90	4,311,326 96	15,329,480 28
WAR DEPARTMENT.			
Salaries, office of Secretary of War	\$91,620 00	\$22,816 00	\$68,804 00
Contingent expenses, office of Secretary of War	12,000 00	3,000 00	9,000 00
Salaries, office of Adjutant General	320,600 00	80,084 00	240,516 00
Contingent expenses, office of Adjutant General	8,000 00	2,500 00	5,500 00
Salaries, office of Quartermaster General	175,320 00	43,816 00	131,504 00
Contingent expenses, office of Quartermaster General	7,000 00	2,500 00	4,500 00
Salaries, office of Commissary General	37,840 00	9,328 00	28,512 00
Contingent expenses, office of Commissary General	8,000 00	2,000 00	6,000 00
Salaries, office of Surgeon General	202,280 00	50,552 00	151,728 00
Contingent expenses, office of Surgeon General	7,000 00	2,000 00	5,000 00
Salaries, office of Paymaster General	77,720 00	19,412 00	58,308 00
Contingent expenses, office of Paymaster General	4,000 00	1,500 00	2,500 00
Salaries, office of Chief Engineer	30,800 00	7,700 00	23,100 00
Contingent expenses, office of Chief Engineer	3,000 00	600 00	2,400 00
Salaries, office of Chief of Ordnance	27,560 00	6,890 00	20,670 00
Contingent expenses, office of Chief of Ordnance	2,000 00	400 00	1,600 00
Salaries, Bureau of Military Justice	13,840 00	3,460 00	10,380 00
Contingent expenses, Bureau of Military Justice	500 00	100 00	400 00
Salaries, office of Chief Signal Officer	4,440 00	1,110 00	3,330 00
Salaries, office of Inspector General	2,640 00	660 00	1,980 00
Salaries, superintendent, &c., War-Department building	5,970 00	1,492 50	3,477 50
Contingent expenses, War-Department building	8,000 00	3,000 00	5,000 00
Salaries, superintendent, &c., building corner Seventeenth and F streets	4,570 00	1,142 50	3,427 50
Salaries, superintendent, &c., building corner Fifteenth and G streets	250 00	63 50	186 50
Contingent expenses, building corner of Seventeenth and F streets	8,000 00	3,500 00	4,500 00
Salaries, superintendent, &c., building corner Fifteenth and F streets	5,290 00	1,322 50	3,967 50
Contingent expenses, building corner Fifteenth and F streets	12,500 00	3,000 00	9,500 00
Salaries of employes, public buildings and grounds, under Chief Engineer	50,328 00	12,000 00	38,328 00
Contingent expenses, public buildings and grounds, under Chief Engineer	2,000 00		2,000 00
Repairs, fuel, &c., Executive Mansion	30,000 00	5,000 00	25,000 00
Improvement and care of public grounds	119,350 00	44,900 00	74,450 00
Lighting &c., Capitol, Executive Mansion, &c.	56,000 00	10,000 00	46,000 00
Washington aqueduct	18,000 00	5,000 00	13,000 00
Repairs of water-pipes and fire-plugs	10,000 00	2,000 00	8,000 00
Salary, superintendent of building on Tenth street	250 00	63 50	186 50
Postage, War Department	85,669 00		85,669 00
Opening an alley, west end of building corner Seventeenth and F streets	900 00	900 00	
MILITARY ESTABLISHMENT.			
Pay, mileage, and general expenses	11,400,000 00	3,327,756 23	8,072,243 77
Pay of Military Academy	235,000 00	52,000 00	183,000 00
Collection and payment of bounty, prize-money, and other claims of colored soldiers and sailors	75,000 00	20,000 00	55,000 00
Subsistence of the Army	2,184,330 00	1,028,999 00	2,155,331 00
Regular supplies of the Quartermaster's department	4,250,000 00	1,155,544 22	3,094,455 78
Incidental expenses	1,200,000 00	253,746 46	946,253 54
Barracks and quarters	1,500,000 00	399,452 71	1,100,547 29
Transportation of the Army and its supplies	4,000,000 00	857,331 42	3,142,668 58
Horses for cavalry and artillery	300,000 00	19,380 00	280,620 00
Clothing and camp and garrison equipage	1,450,000 00	322,305 98	1,127,694 02
National cemeteries	150,000 00	57,293 22	92,706 78
Erection of headstones in national cemeteries	149,034 48	10,000 00	139,034 48
Medical and Hospital department, (regular)	200,000 00	36,851 70	163,148 30
Construction and repair of hospitals	100,000 00	23,761 38	76,238 62
Medical museum and library	10,000 00	5,000 00	5,000 00
Ordnance service	125,000 00	39,513 79	85,486 21
Ordnance, ordnance stores, and supplies	370,000 00	139,173 00	230,827 00
Manufacture of arms at national armories	150,000 00	60,000 00	90,000 00
Tests of iron and steel	65,000 00		65,000 00
Gatling guns	50,000 00	12,050 00	37,950 00
Conversion and rifling of heavy guns	75,000 00		75,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Repairs of arsenals	\$50,000 00	\$19,489 00	\$30,511 00
Rock Island arsenal	296,500 00	125,680 00	170,820 00
Benicia arsenal	47,665 00	31,910 00	15,755 00
Springfield armory	20,000 00	5,000 00	15,000 00
Indianapolis arsenal	1,672 99	1,672 99	
Current and ordinary expenses, Military Academy	68,680 00	27,000 00	41,680 00
Miscellaneous items and incidental expenses, Military Academy	18,560 00	9,000 00	9,560 00
Buildings and grounds, Military Academy	42,500 00	27,000 00	15,500 00
FORTS AND FORTIFICATIONS.			
Fort Preble, Maine	10,000 00	7,000 00	3,000 00
Fort Scammel, Maine	20,000 00	10,000 00	10,000 00
Battery on Portland Head, Maine	20,000 00	8,000 00	12,000 00
Batteries in Portsmouth harbor, N. H.	20,000 00	12,500 00	7,500 00
Fort Warren, Mass.	25,000 00	10,000 00	15,000 00
Battery on Long Island Head, Mass.	30,000 00	15,000 00	15,000 00
Fort Adams, R. I.	15,000 00	15,000 00	
Fort on Dutch Island, R. I.	20,000 00	15,000 00	5,000 00
Fort Trumbull, Conn.	20,000 00	5,000 00	15,000 00
Fort Hamilton and additional batteries, N. Y.	10,000 00		10,000 00
Fort on site of Fort Tompkins, N. Y.	20,000 00	10,000 00	10,000 00
Fort Schuyler, N. Y.	25,000 00	10,000 00	15,000 00
Fort on Willet's Point, N. Y.	25,000 00	10,000 00	15,000 00
Battery Hudson, N. Y.	15,000 00	10,000 00	5,000 00
Fort Wadsworth, N. Y.	5,000 00	5,000 00	
Battery at Finn's Point, opposite Fort Delaware, N. J.	25,000 00	9,500 00	15,500 00
Fort Mifflin, Pa.	25,000 00	7,000 00	18,000 00
New fort opposite Fort Delaware, Delaware shore	25,000 00	8,500 00	16,500 00
Fort McHenry, Md.	20,000 00	20,000 00	
Fort Monroe, Va.	20,000 00	20,000 00	
Fort Moultrie, S. C.	15,000 00		15,000 00
Fort Pulaski, Ga.	25,000 00		25,000 00
Fort Taylor, Fla.	15,000 00	2,600 00	12,400 00
Fort Pickens, Fla.	25,000 00	5,000 00	20,000 00
Fort Jackson, La.	25,000 00	12,000 00	13,000 00
Fort St. Philip, La.	25,000 00	15,000 00	10,000 00
Fort Morgan, Ala.	25,000 00	5,000 00	20,000 00
Ringgold Barracks, Texas	10,000 00		10,000 00
Fort Brown, Texas	25,000 00		25,000 00
Fort Duncan, Texas	10,000 00		10,000 00
Fort at Alcatraz Island, Cal.	25,000 00	4,000 00	21,000 00
Fort at Fort Point, Cal.	25,000 00	7,000 00	18,000 00
Fort at Lime Point, Cal.	20,000 00	6,000 00	14,000 00
Engineer depot at Willet's Point, N. Y.	9,000 00	9,000 00	
Torpedoes for harbor defences	125,000 00	113,000 00	12,000 00
Trials with torpedoes	10,000 00	10,000 00	
Contingencies of fortifications	75,000 00	19,475 00	55,525 00
Surveys for military defences	30,000 00	3,500 00	26,500 00
RIVERS AND HARBORS.			
Surveys of northern and northwestern lakes	150,000 00	40,000 00	110,000 00
Rock Island bridge	13,000 00	4,200 00	8,800 00
MISCELLANEOUS.			
Expenses of Commanding General's office	5,000 00	2,000 00	3,000 00
Expenses of recruiting	105,000 00	20,081 07	84,918 93
Contingencies of Adjutant General's department	3,000 00	2,700 00	300 00
Signal service	12,500 00	12,500 00	
Observation and report of storms	415,000 00	150,000 00	265,000 00
Refunding to States expenses incurred in raising volunteers	250,000 00		250,000 00
Contingencies of the Army, (regular)	100,000 00	16,388 56	83,611 44
Expenses of military convicts	40,000 00	1,123 25	38,876 75
Exploration and survey of the Territories west of the 100th meridian	40,000 00	4,000 00	36,000 00
Illustrations for report of geographical and geological surveys west of the 100th meridian	20,000 00	2,000 00	18,000 00
Construction, maintenance, and repairs of military telegraph lines	88,000 00	50,000 00	38,000 00
Total War Department	32,192,679 47	9,144,791 48	24,047,887 99
NAVY DEPARTMENT.			
Salaries, office of Secretary of Navy	\$35,620 00	\$8,905 00	\$26,715 00
Contingent expenses, office of Secretary of Navy	5,000 00	2,000 00	3,000 00
Salaries, Bureau of Yards and Docks	12,760 00	3 190 00	9,570 00
Contingent expenses, Bureau of Yards and Docks	1,800 00	200 00	1,600 00
Salaries, Bureau of Equipment and Recruiting	11,960 00	2,990 00	8,970 00
Contingent expenses, Bureau of Equipment and Recruiting	850 00	200 00	650 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Salaries, Bureau of Navigation	\$6,360 00	\$1,590 00	\$4,770 00
Contingent expenses, Bureau of Navigation	800 00	200 00	600 00
Salaries, Bureau of Ordnance	9,560 00	2,390 00	7,170 00
Contingent expenses, Bureau of Ordnance	800 00	200 00	600 00
Salaries, Bureau of Construction and Repair	12,960 00	3,240 00	9,720 00
Contingent expenses, Bureau of Construction and Repair	800 00	200 00	600 00
Salaries, Bureau of Steam Engineering	7,760 00	1,940 00	5,820 00
Contingent expenses, Bureau of Steam Engineering	1,000 00	200 00	800 00
Salaries, Bureau of Provisions and Clothing	14,760 00	3,690 00	11,070 00
Contingent expenses, Bureau of Provisions and Clothing	800 00	200 00	600 00
Salaries, Bureau of Medicine and Surgery	4,960 00	1,240 00	3,720 00
Contingent expenses, Bureau of Medicine and Surgery	400 00	200 00	200 00
Salaries, superintendent, &c., Navy-Department building	5,290 00	1,322 50	3,967 50
Contingent expenses, Navy-Department building	7,000 00	3,000 00	4,000 00
Postage, Navy Department	20,000 00		20,000 00
NAVAL ESTABLISHMENT.			
Pay of Marine Corps	\$599,760 00	\$88,633 34	\$511,126 66
Provisions, Marine Corps	100,000 00	5,000 00	95,000 00
Clothing, Marine Corps	100,000 00		100,000 00
Fuel, Marine Corps	30,856 00	2,500 00	28,356 00
Military stores, Marine Corps	9,000 00	500 00	8,500 00
Transportation and recruiting, Marine Corps	10,000 00	1,030 75	8,969 25
Repair of barracks, Marine Corps	10,000 00	1,500 00	8,500 00
Forage for horses, Marine Corps	5,000 00	500 00	4,500 00
Quarters for officers, Marine Corps	16,000 00	1,500 00	14,500 00
Contingent, Marine Corps	20,000 00	3,000 00	17,000 00
Naval Academy	113,817 90	29,000 00	84,817 90
Contingent, Naval Academy	41,600 00	14,200 00	27,400 00
Buildings and grounds, Naval Academy	24,000 00	20,000 00	4,000 00
Heating and lighting, Naval Academy	15,000 00	15,000 00	
Pay to discharged soldiers for clothing not drawn, Marine Corps	20,000 00		20,000 00
Navy yard at Pensacola, Fla.	150,000 00		150,000 00
Navy yard at Mare Island, Cal.	200,000 00	99,201 09	100,799 00
Naval station at League Island, Pa.	200,000 00	62,713 47	137,286 53
Naval station at New London, Conn.	40,000 00	1,500 00	38,500 00
Naval asylum at Philadelphia, Pa.	52,973 00	7,412 00	45,561 00
Contingent, Yards and Docks	40,000 00	18,872 00	21,128 00
Maintenance, Yards and Docks	760,000 00	186,665 00	573,335 00
Repairs and preservation at navy yards	500,000 00	134,743 00	365,257 00
Civil establishment at navy yards and stations	158,000 00	38,260 00	119,740 00
Equipment of vessels	1,250,000 00	343,642 00	906,358 00
Contingent, Equipment and Recruiting	75,000 00	30,444 00	44,556 00
Bounties to sailors and marines	50,000 00	16,211 93	33,788 07
Navigation and navigation supplies	115,500 00	14,238 00	101,262 00
Contingent, Navigation	4,000 00	269 00	3,731 00
Hydrographic work	67,800 00	22,708 00	45,092 00
Naval Observatory	20,500 00	8,386 00	12,114 00
Nautical Almanac	24,500 00	2,802 00	21,698 00
Ordnance and ordnance stores	340,000 00	91,665 00	248,335 00
Contingent, Ordnance	1,000 00	65 00	935 00
Torpedo corps	93,000 00	22,373 56	70,626 44
Construction and repair	3,300,000 00	1,514,084 50	1,785,916 00
Protecting timber lands	5,000 00	1,686 00	3,314 00
Steam machinery	1,800,000 00	982,383 00	817,617 00
Provisions, Navy	1,279,000 00	283,429 12	995,570 88
Clothing, Navy	150,000 00	149,961 00	39 00
Contingent, Provisions and Clothing	50,000 00	7,634 88	42,365 12
Surgeons' necessities and appliances	30,000 00	2,794 00	27,206 00
Repairs and improvements of hospitals	20,000 00	4,802 50	15,197 50
Civil establishment, Medicine and Surgery	35,000 00	9,672 00	25,328 00
Contingent, Medicine and Surgery	25,000 00	5,405 00	19,595 00
MISCELLANEOUS.			
Pay of the Navy	6,250,000 00	3,644,094 62	2,605,905 38
Contingent, Navy	100,000 00	37,355 00	62,645 00
Total Navy Department	18,462,546 90	7,964,933 67	10,447,613 33
INTERIOR DEPARTMENT.			
Salaries, office of Secretary of the Interior	\$69,780 00	\$17,000 00	\$52,780 00
Contingent expenses, office of Secretary of the Interior	16,500 00	5,000 00	11,500 00
Salaries of watchmen, Department of the Interior	21,360 00	5,000 00	16,360 00
Fuel, lights, &c., Department of the Interior	20,000 00	5,000 00	15,000 00
Repairs of building, Department of the Interior	85,000 00	70,000 00	15,000 00
Rent of rooms for Pension Office, &c.	16,000 00	4,000 00	12,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Packing, &c., Congressional documents	\$7,500 00	\$3,000 00	\$4,500 00
Salary of secretary to sign land patents	1,500 00	375 00	1,125 00
Salaries, General Land Office	278,093 33	63,415 37	314,677 96
Contingent expenses, General Land Office	30,000 00	10,000 00	20,000 00
Salaries, office of Commissioner of Indian Affairs	69,880 00	16,000 00	53,880 00
Contingent expenses, office of Commissioner of Indian Affairs	8,000 00	2,000 00	6,000 00
Salaries, office of Commissioner of Pensions	468,577 80	126,004 15	342,573 65
Contingent expenses, office of Commissioner of Pensions	73,800 00	20,000 00	53,800 00
Salaries, office of Commissioner of Patents	436,400 00	110,000 00	326,400 00
Contingent expenses, office of Commissioner of Patents	80,000 00	20,000 00	60,000 00
Copies of drawings, office of Commissioner of Patents	100,000 00	40,000 00	60,000 00
Plates for Patent Office Official Gazette	40,000 00	15,000 00	25,000 00
Photo-lithographing, office of Commissioner of Patents	40,000 00	10,000 00	30,000 00
Tracings of drawings, office of Commissioner of Patents	35,000 00	10,000 00	25,000 00
Salaries, office of Commissioner of Education	18,360 00	4,000 00	14,360 00
Contingent expenses, office of Commissioner of Education	17,210 00	4,000 00	13,210 00
PUBLIC LANDS.			
Salaries, office of surveyor general of Arizona	7,000 00		7,000 00
Contingent expenses, office of surveyor general of Arizona	2,500 00		2,500 00
Salaries, office of surveyor general of California	23,000 00		23,000 00
Contingent expenses, office of surveyor general of California	7,000 00		7,000 00
Salaries, office of surveyor general of Colorado	9,300 00		9,300 00
Contingent expenses, office of surveyor general of Colorado	3,000 00		3,000 00
Salaries, office of surveyor general of Dakota	8,300 00	150 00	8,150 00
Contingent expenses, office of surveyor general of Dakota	2,400 00	158 50	2,241 50
Salaries, office of surveyor general of Florida	4,500 00	200 00	4,300 00
Contingent expenses, office of surveyor general of Florida	1,500 00		1,500 00
Salaries, office of surveyor general of Idaho	7,000 00		7,000 00
Contingent expenses, office of surveyor general of Idaho	2,500 00		2,500 00
Salaries, office of surveyor general of Kansas	8,300 00		8,300 00
Contingent expenses, office of surveyor general of Kansas	2,000 00		2,000 00
Salaries, office of surveyor general of Louisiana	7,000 00		7,000 00
Contingent expenses, office of surveyor general of Louisiana	1,000 00		1,000 00
Salaries, office of surveyor general of Minnesota	10,400 00	101 09	10,298 91
Contingent expenses, office of surveyor general of Minnesota	2,200 00		2,200 00
Salaries, office of surveyor general of Montana	8,000 00		8,000 00
Contingent expenses, office of surveyor general of Montana	2,500 00	202 16	2,297 84
Salaries, office of surveyor general of Nebraska and Iowa	8,300 00	108 70	8,191 30
Contingent expenses, office of surveyor general of Nebraska and Iowa	3,000 00		3,000 00
Salaries, office of surveyor general of Nevada	8,000 00		8,000 00
Contingent expenses, office of surveyor general of Nevada	4,000 00		4,000 00
Salaries, office of surveyor general of New Mexico	9,300 00		9,300 00
Contingent expenses, office of surveyor general of New Mexico	2,500 00		2,500 00
Salaries, office of surveyor general of Oregon	7,500 00		7,500 00
Contingent expenses, office of surveyor general of Oregon	2,000 00		2,000 00
Salaries, office of surveyor general of Utah	7,700 00		7,700 00
Contingent expenses, office of surveyor general of Utah	2,000 00	40 00	1,960 00
Salaries, office of surveyor general of Washington Territory	7,500 00		7,500 00
Contingent expenses, office of surveyor general of Washington Territory	2,000 00	169 00	1,831 00
Salaries, office of surveyor general of Wyoming	9,700 00		9,700 00
Contingent expenses, office of surveyor general of Wyoming	2,500 00		2,500 00
Salary, recorder of land titles in Missouri	500 00		500 00
Salaries and commissions of registers and receivers	525,700 00	86,927 48	438,772 52
Contingent expenses of land offices	57,940 00	14,641 13	43,298 87
Expenses of depositing public moneys	13,000 00	1,099 15	11,900 85
Depredations on public timber	5,000 00		5,000 00
Surveying public lands in—			
Arizona	20,000 00		20,000 00
California	70,000 00		70,000 00
Colorado	60,000 00	2,653 09	57,346 91
Dakota	50,000 00	958 27	49,041 73
Florida	10,000 00		10,000 00
Idaho	30,000 00		30,000 00
Louisiana	15,000 00		15,000 00
Minnesota	30,000 00		30,000 00
Montana	40,000 00	6,343 12	33,656 88
Nebraska	75,000 00	2,405 82	72,594 18
Nevada	30,000 00		30,000 00
New Mexico	40,000 00		40,000 00
Oregon	70,000 00		70,000 00
Utah	30,000 00		30,000 00
Washington Territory	40,000 00	79 20	39,920 80
Wyoming	30,000 00		30,000 00
Geological survey of the Territories	100,000 00	25,000 00	75,000 00
Examinations of the public surveys	10,000 00		10,000 00
Illustrations for report on the geological survey of the Territories	40,000 00		40,000 00
Surveying private land claims in California	20,000 00		20,000 00
Surveying private land claims in Colorado	10,000 00		10,000 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Surveying private land claims in New Mexico.....	\$10,000 00	.....	\$10,000 00
Survey of the boundary between New Mexico and Arizona.....	27,370 00	.....	27,370 00
Survey of Indian reservations.....	191,820 00	\$55,372 54	136,447 46
PUBLIC WORKS.			
Annual repairs of Capitol.....	54,500 00	20,000 00	34,500 00
Stable for mail-wagons, Senate.....	10,000 00	10,000 00	
Buildings and grounds, Government Hospital for the Insane.....	28,740 00	.....	28,740 00
Buildings, Columbia Institution for the Deaf and Dumb.....	40,000 00	20,000 00	20,000 00
Improving the Capitol grounds.....	200,000 00	75,000 00	125,000 00
Capitol building at Olympia, Washington Territory.....	5,274 75	830 72	4,444 03
MISCELLANEOUS.			
Current expenses—			
Government Hospital for the Insane.....	150,171 00	20,000 00	130,171 00
Columbia Institution for the Deaf and Dumb.....	48,000 00	12,000 00	36,000 00
Columbia Hospital for Women and Lying-in Asylum.....	24,300 00	6,000 00	18,300 00
National Soldiers' and Sailors' Orphans' Home.....	10,000 00	2,500 00	7,500 00
Preservation of collections, Smithsonian Institution.....	32,500 00	10,000 00	22,500 00
Postage, Interior Department.....	125,000 00	.....	125,000 00
Support of Children's Hospital, Washington, D. C.....	5,000 00	5,000 00	
Support of Freedmen's Hospital and Asylum, Washington, D. C.....	45,000 00	10,000 00	35,000 00
National Association for Relief of Colored Women and Children, Washington, D. C.....	10,000 00	2,500 00	7,500 00
Safe for Interior Department.....	2,000 00	2,000 00	
Support and medical treatment of transient paupers.....	15,000 00	2,500 00	12,500 00
Maps of the United States.....	6,000 00	.....	6,000 00
PENSIONS.			
Army pensions.....	29,500,000 00	8,814,500 00	20,685,500 00
Navy pensions.....	500,000 00	162,400 00	337,600 00
INDIAN AFFAIRS.			
Pay of special agents.....	10,500 00	5,250 00	5,250 00
Pay of superintendents and Indian agents.....	108,000 00	43,571 96	64,428 04
Pay of interpreters.....	35,200 00	13,932 32	21,267 68
Pay of clerks to Central superintendency.....	3,400 00	1,700 00	1,700 00
Pay of clerks to Northern superintendency.....	1,200 00	600 00	600 00
Pay of Indian inspectors.....	9,000 00	2,250 00	6,750 00
Travelling expenses of Indian inspectors.....	6,000 00	3,000 00	3,000 00
Fulfilling treaties with—			
Apaches, Kiowas, and Comanches.....	67,700 00	30,927 42	36,772 58
Assinaboines.....	30,000 00	11,286 94	18,713 06
Blackfeet, Bloods, and Piegiens.....	50,000 00	13,948 94	36,051 06
Cheyennes and Arapahoes.....	47,200 00	29,087 75	18,112 25
Chickasaws.....	3,000 00	.....	3,000 00
Chippewas—Boise Fort Band.....	15,100 00	9,277 94	5,822 06
Chippewas of Lake Superior.....	17,860 00	10,269 75	7,590 25
Chippewas of the Mississippi.....	44,902 01	36,655 36	8,246 65
Chippewas—Pillager and Lake Winnebagoish bands.....	25,166 66	19,130 82	6,035 84
Chippewas of Red Lake, and Pembina tribe of Chippewas.....	35,400 00	25,264 39	10,135 61
Choctaws.....	30,032 89	15,313 92	14,718 97
Confederated tribes and bands in Middle Oregon.....	7,600 00	3,800 00	3,800 00
Creeks.....	72,778 40	37,694 20	35,084 20
Crows.....	167,623 00	37,046 63	130,576 37
D'Wamish and other allied tribes in Washington.....	11,950 00	8,100 00	3,850 00
Flatheads and other confederated tribes.....	18,500 00	9,000 00	9,500 00
Gros Ventres.....	35,000 00	10,309 79	24,690 21
Iowas.....	2,875 00	925 00	1,950 00
Kansas.....	10,000 00	9,000 00	1,000 00
Kickapoos.....	24,797 29	14,679 05	10,118 24
Klamaths and Modocs.....	17,100 00	9,050 00	8,050 00
Makahs.....	8,600 00	4,800 00	3,800 00
Menomonees.....	16,179 06	6,741 27	9,437 79
Mixed Shoshones, Bannocks, and Sheepeaters.....	20,000 00	9,966 14	10,033 86
Miamies of Eel river.....	1,100 00	.....	1,100 00
Miamies of Indiana.....	11,062 89	.....	11,062 89
Miamies of Kansas.....	11,500 00	.....	11,500 00
Molels.....	3,000 00	1,500 00	1,500 00
Navajoes.....	81,175 00	19,867 63	61,307 37
Nez Percés.....	25,800 00	12,900 00	12,900 00
Northern Cheyennes and Arapahoes.....	37,700 00	9,304 61	28,395 39
Omahas.....	25,100 00	12,550 00	12,550 00
Osages.....	18,456 00	9,228 00	9,228 00
Otoes and Missourias.....	9,000 00	4,000 00	5,000 00
Pawnees.....	57,176 87	28,539 10	28,637 77
Poncas.....	18,000 00	12,274 03	5,725 97
Pottawatomies.....	20,647 65	10,323 82	10,323 83
Pottawatomies of Huron.....	400 00	400 00	
Quapaws.....	2,060 00	.....	2,060 00
Qui-nai-elts and Quil-leh-utes.....	7,800 00	4,250 00	3,550 00

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
Fulfilling treaties with—			
River Crows	\$30,000 00	\$6,000 00	\$24,000 00
Sacs and Foxes of the Mississippi	51,000 00	19,912 67	31,087 33
Sacs and Foxes of the Missouri	8,070 00	3,933 76	4,136 24
Seminoles	28,500 00	14,250 00	14,250 00
Senecas	2,660 00		2,660 00
Senecas of New York	11,902 50		11,902 50
Senecas and Shawnees	2,060 00		2,060 00
Shawnees	5,000 00		5,000 00
Shoshones—Eastern, Western, Northwestern, and Goship bands.	21,000 00	3,500 00	17,500 00
Shoshones and Bannocks	78,111 00	21,091 29	57,019 71
Six Nations of New York	4,500 00	4,403 65	96 35
Sioux of different tribes, including Santee Sioux in Nebraska	1,572,600 00	552,994 36	1,019,605 64
Sioux—Yankton tribe	41,200 00	30,483 23	10,716 77
Sisseton, Wahpeton, and Santee Sioux of Lake Traverse and Devil's Lake	80,000 00	31,531 73	48,468 27
S'Klallams	9,200 00	5,400 00	3,800 00
Snakes—Wall-pah-pe tribe	1,200 00	600 00	600 00
Tabeguache, Muache, Capote, Weeminuche, Yampa, Grand River, and Uintah bands of Utes	73,020 00	40,181 76	32,838 24
Utahs—Tabeguache band	720 00		720 00
Walla-Walla, Cayuse, and Umatilla tribes	15,500 00	8,750 00	6,750 00
Winnebagoes	50,488 39	30,716 85	19,771 54
Yakamas	22,400 00	13,200 00	9,200 00
Trust-fund interest due—			
Cherokee national fund	26,390 00	26,390 00	
Cherokee school fund	2,470 00	2,470 00	
Chickasaw national fund	15,140 00		15,140 00
Choctaw general fund	27,000 00	27,000 00	
Creek orphans	4,048 00	4,048 00	
Delaware general fund	8,930 00		8,930 00
Iowas	3,790 00	3,790 00	
Kaskaskias, Peorias, Weas, and Piankeshaws	5,251 00		5,251 00
Kaskaskias, Peorias, Weas, and Piankeshaws, school fund	1,449 00		1,449 00
Menomonees	950 00	950 00	
Ottawas and Chippewas	230 00		230 00
Contingencies, trust funds	1,500 00		1,500 00
Interest due Osage Indians on avails of diminished reserve lands in Kansas	38,777 18	25,664 86	13,112 32
Incidental expenses, Indian service in—			
Arizona	65,000 00	12,731 21	52,268 79
California	60,000 00	35,770 66	24,229 34
Colorado	5,000 00	1,609 04	3,390 96
Dakota	20,000 00	7,189 90	12,810 10
Idaho	10,000 00	2,747 61	7,252 39
Montana	20,000 00	3,680 14	16,319 86
Nevada	35,000 00	17,502 50	17,497 50
New Mexico	40,000 00	13,762 69	26,237 31
Oregon	45,000 00	29,708 10	15,291 90
Utah	20,000 00	13,157 82	6,842 18
Washington	25,000 00	8,254 80	16,745 20
Wyoming	5,000 00	42 81	4,957 19
Central superintendency	4,000 00	2,022 00	1,978 00
Northern superintendency	2,000 00	1,000 00	1,000 00
Contingencies, Indian department	50,000 00	10,625 82	19,374 18
Civilization and subsistence of Indians, Central superintendency	10,000 00	10,000 00	
Civilization and subsistence of Indians on the Malheur reservation	35,000 00	23,500 00	11,500 00
Vaccination of Indians	500 00		500 00
Buildings at agencies, and repairs	10,000 00	3,875 00	6,125 00
Expenses of Indian commissioners	15,000 00	445 19	14,554 81
Expenses of a general council of Indians in the Indian Territory	3,000 00	3,000 00	
Payment to Pawnees for lands excluded from reservation	6,000 00	6,000 00	
Statistics and historical data respecting Indians of the United States	3,500 00	1,750 00	1,750 00
Colonizing and supporting the Wichitas and other affiliated bands	50,000 00	20,003 87	29,996 13
Collecting and subsisting the Apaches of Arizona and New Mexico	450,000 00	64,439 73	385,560 27
Settlement, subsistence, and support of Shoshones, Bannocks, and other bands in Idaho and Southeastern Oregon	16,000 00	7,500 00	8,500 00
Subsistence of Kansas Indians, reimbursable	20,000 00	10,169 17	9,830 83
Subsistence of the Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas	300,000 00	50,664 44	249,335 56
Subsistence and civilization of the Arickarees, Gros Ventres, and Mandans	85,000 00	47,729 64	37,270 36
Payment to Flatheads removed to Jocko reservation, Montana, reimbursable	5,000 00	2,500 00	2,500 00
Support and civilization of Sioux at Fort Peck agency	100,000 00	33,454 38	66,545 62
Support, education, and civilization of captive Indians	300,000 00	34,018 07	265,981 93
Support of schools for Otoes and Missourias, reimbursable	6,000 00	3,000 00	3,000 00
Support of schools for Sacs and Foxes in Iowa	1,000 00		1,000 00
Salary of Ouray, head chief of the Ute nation	1,000 00	500 00	500 00
Settlement, subsistence, and support of Modocs now residing in the Indian Territory	10,000 00		10,000 00
Indians in Minnesota, Michigan, and Wisconsin	4,000 00	3,250 00	750 00
Total Department of the Interior	39,935,822 67	11,852,218 02	28,183,658 65

D.—Statement of appropriations for the service of the fiscal year ending June 30, 1876, &c.—Continued.

Appropriations.	Appropriated for the fiscal year ending June 30, 1876.	Expended during the first quarter of the fiscal year.	Available and required to complete the service of the remaining three quarters of the fiscal year.
POST OFFICE DEPARTMENT.			
Salaries, Post Office Department	\$470,852 00	\$118,000 00	\$352,852 00
Contingent expenses, Post Office Department	53,600 00	15,000 00	38,600 00
Deficiency in postal revenues	6,852,705 00		6,852,705 00
Steamship service between San Francisco, Japan, and China	500,000 00		500,000 00
Steamship service between United States and Brazil	37,500 00		37,500 00
Postage, Post Office Department	986,000 00		986,000 00
Total Post Office Department	8,900,657 00	133,000 00	8,767,657 00
DEPARTMENT OF AGRICULTURE.			
Salaries, Department of Agriculture	\$77,180 00	\$19,000 00	\$58,180 00
Collecting agricultural statistics	15,000 00	2,500 00	12,500 00
Purchase and distribution of valuable seeds	65,000 00	9,000 00	56,000 00
Museum, Department of Agriculture	2,000 00	500 00	1,500 00
Furniture, cases, and repairs, Department of Agriculture	3,300 00	500 00	2,800 00
Library, Department of Agriculture	1,250 00	200 00	1,050 00
Laboratory, Department of Agriculture	1,300 00	200 00	1,100 00
Experimental garden, Department of Agriculture	8,000 00	1,500 00	6,500 00
Contingent expenses, Department of Agriculture	12,100 00	3,400 00	8,700 00
Improvement of grounds, Department of Agriculture	11,990 00	3,500 00	8,490 00
Postage, Department of Agriculture	52,000 00		52,000 00
Total Department of Agriculture	249,120 00	40,300 00	208,820 00
DEPARTMENT OF JUSTICE.			
Salaries, Department of Justice	\$108,820 00	\$27,000 00	\$81,820 00
Rent of building, Department of Justice	14,000 00	3,500 00	10,500 00
Contingent expenses, Department of Justice	15,500 00	1,500 00	14,000 00
Salary, warden of jail, District of Columbia	2,000 00	500 00	1,500 00
Defending claims under convention with Mexico	5,000 00		5,000 00
Prosecution of crimes	25,000 00	4,666 60	20,333 40
Defending suits and claims for seizure of captured and abandoned property	50,000 00	8,200 00	41,800 00
Prosecution and collection of claims	5,000 00	1,000 00	4,000 00
Current expenses, reform school, District of Columbia	10,000 00	4,522 00	5,478 00
Postage, Department of Justice	10,000 00		10,000 00
Punishing violation of intercourse acts and frauds	8,000 00	718 50	7,281 50
Support of insane convicts	5,009 46		5,009 46
Salaries and expenses, Metropolitan police	205,270 00	54,000 00	151,270 00
Penitentiary building at Deer Lodge, Montana	1,200 00		1,200 00
Court-house at Washington, D. C.	3,000 00	3,000 00	
JUDICIAL.			
Salaries—			
Justices, &c., Supreme Court	96,500 00	27,500 00	69,000 00
Circuit judges	54,000 00	12,000 00	42,000 00
District judges	193,000 00	44,500 00	148,500 00
District attorneys	19,350 00	4,564 13	14,785 87
District marshals	11,900 00	2,775 00	9,125 00
Justices and judges of the supreme court, District of Columbia	20,500 00	5,125 00	15,375 00
Expenses of United States courts	3,000,000 00	550,053 46	2,449,946 54
Support of convicts	8,000 00		8,000 00
Total Department of Justice	3,871,049 46	755,124 69	3,115,924 77

**STATEMENT OF THE CONTINGENT EXPENDITURES OF THE INDEPENDENT TREASURY FROM JULY
1, 1874, TO NOVEMBER 20, 1875, INCLUSIVE.**

To whom advanced or paid.	Character of expenditure.	Amounts.	Total.
Adams Express Co.....	Transportation of gold, silver, and coin certificates	\$14,887 72	
	Transportation of other Government property	203 25	
			\$15,090 97
Laidlaw & Co	Telegraphic transfers from San Francisco, (\$2,000,000, coin)		4,000 00
Drexel, Morgan & Co	Telegraphic transfer from San Francisco, (\$500,000, coin)		1,000 00
Treasury Department	Stationery for Independent-Treasury offices		4,550 55
Henry Troemner	Coin weights for Boston office		5 00
Fairbanks & Co	Post-office balance for Boston office		10 20
Geo. Bruce's Sons & Co	Type for printing office		413 13
Bushrod Birch, Disbursing Clerk	Expenses from Washington to New York and return, (E. J. Babcock)		43 25
P. P. Kidder, Coll. Customs, Dunkirk, N. Y.	Expenses examining depository bank		3 00
Thomas Hillhouse, U. S. Assistant Treasurer, New York.	Labor, (shovelling snow and ice and removing ashes)	132 88	
	Washing towels	348 12	
	Books	24 00	
	Burglar-alarm	191 65	
	Coin-bags	790 00	
	Repairs	39 25	
	Binding interest schedules	48 00	
	Box rent and postage	27 96	
	Telegrams	51 11	
	Basket-truck	43 25	
	Sundries	218 66	
			1,914 88
George Eyster, U. S. Assistant Treasurer, Philadelphia.	Washing towels	120 45	
	Books	29 20	
	Coin-bags	49 00	
	Repairs	9 50	
	Binding interest schedules	40 00	
	Box rent and postage	12 60	
	Telegrams	40	
	Freight	11 90	
	Newspapers	25 00	
	Ice	136 78	
	Glass case for scale	32 00	
	Advertising	62 45	
	Boxes	39 00	
	Sundries	72 67	
			640 95
F. Haven, jr., U. S. Assistant Treasurer, Boston.	Washing towels	38 00	
	Cleaning building	54 58	
	Coin-bags	144 74	
	Repairs	44 15	
	Box rent and postage	19 15	
	Freight	22 27	
	Stamp	38 00	
	Ice	26 40	
	Advertising	15 45	
	Gas and gas-fixtures	12 31	
	Furniture	51 75	
	Truck	12 50	
	Sundries	91 80	
			571 10
Peter Negley, U. S. Assistant Treasurer, Balti- more, Md.	Washing towels	22 50	
	Books	4 00	
	Cleaning building	135 00	
	Coin-bags	150 00	
	Repairs	16 40	
	Telegrams	59 14	
	Newspapers	6 00	
	Ice	56 43	
	Binding interest schedules	3 00	
	Sundries	116 30	
			568 77
Wm. Sherman, U. S. Assistant Treasurer, San Francisco.	Washing towels	20 38	
	Coin-bags	105 81	
	Repairs	29 76	
	Box rent and postage	7 90	
	Telegrams	5 46	
	Freight	7 57	
	Subscription to papers	52 66	
	Ice	101 24	
	Books	34 45	
	Cleaning building	5 68	
	Cleaning streets	54 34	
	Binding interest schedules	18 13	
	Advertising	40 17	
	Fuel	37 41	
	Gas and gas-fixtures	426 30	
	Furniture	36 57	
	Rent	5,700 00	
	Sundries	148 87	
			6,832 70

Statement of the contingent expenses of the Independent Treasury, &c.—Continued.

To whom advanced or paid.	Character of expenditure.	Amounts.	Total.
J. D. Webster, U. S. Assistant Treasurer, Chicago.	Washing towels	\$36 25	
	Books	13 30	
	Cleaning building	29 60	
	Repairs	26 05	
	Telegrams	313 00	
	Freight	3 95	
	Gas and gas-fixtures	22 20	
	Furniture	16 50	
	Sundries	61 42	\$522 27
A G. Edwards, U. S. Assistant Treasurer, St. Louis.	Washing towels	32 00	
	Cleaning building	60 00	
	Cleaning streets	16 00	
	Repairs	5 50	
	Telegrams	312 00	
	Ice	44 20	
	Stamp and ink	10 50	
	Boxes	15 00	
	Gas and gas-fixtures	137 15	
	Furniture	4 80	
	Rent	5,100 00	
	Sundries	81 60	
Benj. F. Flanders, U. S. Assistant Treasurer, New Orleans.	Washing towels	27 00	5,818 75
	Coin-bags	109 50	
	Repairs	3 00	
	Box rent and postage	12 60	
	Telegrams	8 80	
	Freight	11 68	
	Subscription to papers	26 00	
	Stamp	4 00	
	Advertising	21 50	
	Ice	52 20	
	Sundries	85 96	
			362 24
C. H. Baldwin, U. S. Assistant Treasurer, Charleston.	Labor, (putting down carpets, removing stove, &c.)	8 60	
	Washing towels	5 25	
	Repairs	1 25	
	Box rent and postage	1 00	
	Freight	12 86	
	Ice	5 00	
	Advertising	10 40	
	Seal	5 00	
	Fuel	14 55	
	Boxes	6 00	
	Gas and gas-fixtures	16 42	
	Furniture	198 90	
	Sundries	32 15	
			317 38
Wm. E. Davis, U. S. Assistant Treasurer, Cincinnati.	Washing towels	24 00	
	Coin-bags	10 00	
	Repairs	1 75	
	Box rent and postage	9 86	
	Telegrams	104 00	
	Freight	6 61	
	Subscription to papers	37 30	
	Ice	33 95	
	Sundries	57 60	
			285 07
Thomas Steel, U. S. Depositary, Pittsburg.....	Washing towels	20 00	
	Boxes	12 60	
	Cleaning building	42 00	
	Repairs	1 25	
	Box rent and postage	8 00	
	Freight	1 70	
	Ice	19 91	
	Stamp	12 00	
	Sundries	8 15	
			125 61
R. W. Daniels, U. S. Depositary, Buffalo.....	Washing towels	4 00	
	Sundries	2 11	
			6 11
Jas. P. Luce, U. S. Depositary, Louisville....	Labor in closing office	130 43	
	Packing-boxes	36 20	
	Express	1 00	
			167 63
C. H. Lord, U. S. Depositary, Tucson.....	Fuel	84 00	
	Coal oil	26 00	
	Rent	360 00	
	Expenses to Yuma to receive Government funds	200 00	
	Sundries	46 50	
			716 50
Abram G. Hoyt, U. S. Depositary, Santa Fé, N. M.	Labor, (handling safe)	10 00	
	Repairs	10 00	
	Telegrams	2 70	

Statement of the contingent expenses of the Independent Treasury, &c.—Continued.

To whom advanced or paid.	Character of expenditure.	Amounts.	Total.
Abram G. Hoyt, U. S. Depositary, Santa Fé, N. M.—Continued.	Freight.....	\$192 95	
	Fuel.....	123 00	
	Coal oil.....	100 00	
	Furniture.....	413 80	
	Sundries.....	57 55	
			\$910 00
	Total		44,876 06

RECAPITULATION.

Expenses of transportation of coin, stationery, &c.....	\$15,337 22	Washing.....	\$697 95
Telegraphic transfers of coin from San Francisco	5,000 00	Gas and gas-fixtures.....	614 38
Stationery	4,550 55	Rent.....	11,160 00
Coin weights and post-office balance	15 20	Repairs	187 86
Type	413 13	Fuel	258 96
Labor	281 91	Coal oil	126 00
Freight	272 49	Burglar alarm.....	191 65
Books.....	104 95	Trucks	55 75
Furniture, cancelling and other stamps.....	791 82	Case for scale	32 00
Subscription to papers.....	146 96	Advertising	149 97
Box rent and postage.....	99 07	Sundries	1,117 54
Binding interest schedules.....	109 13		
Cleaning streets.....	70 34	Amount expended.....	44,876 06
Cleaning buildings	326 86	Amount unexpended	55,123 94
Coin-bags.....	1,431 65		
Ice.....	476 11	Amount appropriated	100,000 00
Telegrams	856 61		

RECEIPTS AND DISBURSEMENTS

COMBINED STATEMENT

RECEIPTS AND DISBURSEMENTS

APPROXIMATE AND ACTUAL

THE UNITED STATES

FISCAL YEAR ENDED JUNE 30, 1906

RECEIPTS AND DISBURSEMENTS.

Wm. H. Bicknell,
Secretary of the Treasury

A. T. POWELL,
Chief of Current Printing

RECEIPTS AND DISBURSEMENTS

COMBINED STATEMENT
OF THE
RECEIPTS AND DISBURSEMENTS
(APPARENT AND ACTUAL)
OF
THE UNITED STATES
FOR THE
FISCAL YEAR ENDED JUNE 30, 1875.

TREASURY DEPARTMENT,
WASHINGTON, D. C., *December 1, 1875.*

SIR: In compliance with instructions received from you, I have prepared for publication in the book of Estimates a Combined Statement of the Receipts and Disbursements of the Government, by appropriations, exclusive of the principal of the public debt, for the fiscal year ended June 30, 1875, exhibiting the various sources of the revenues; the *apparent expenses* of each branch of the service under the several Departments, and of each Department, on account of "salaries," "ordinary expenses," "public works," "miscellaneous," and "unusual and extraordinary;" and the *actual expenses* of the same, and the *actual revenues*, by deductions from them of those items which appear in both accounts by requirements of law, but which are not *actual revenues* or *true expenditures*, and other items on account of branches of the service intended to be self-supporting, the expenses and revenues of which must by law enter into the accounts of the Treasury.

I have the honor to be, very respectfully, your obedient servant,

J. T. POWER,
Chief of Warrant Division.

Hon. B. H. BRISTOW,
Secretary of the Treasury.

COMBINED STATEMENT
OF THE
RECEIPTS AND DISBURSEMENTS
OF THE
TREASURY DEPARTMENT

THE UNITED STATES

FISCAL YEAR ENDED JUNE 30, 1876

TREASURY DEPARTMENT

WASHINGTON, D. C., December 1, 1875

SIR: In compliance with instructions received from you I have prepared for publication in the book of publications a combined statement of the receipts and disbursements of the Government for the fiscal year ended June 30, 1876. This statement is divided into two parts, the first showing the receipts of the Government, and the second showing the disbursements. The receipts are divided into "ordinary receipts," "extraordinary receipts," and "receipts from the sale of public lands." The disbursements are divided into "ordinary disbursements," "extraordinary disbursements," and "disbursements for the purchase of public lands." The statement is prepared in accordance with the instructions of the Secretary of the Treasury, and is intended to show the actual receipts and disbursements of the Government for the fiscal year ended June 30, 1876. It is not intended to show the estimated receipts and disbursements for the fiscal year ending June 30, 1877.

I have the honor to be, very respectfully, your obedient servant,

J. T. POPE

Chief of Bureau

Hon. R. H. Bristow,
Secretary of the Treasury

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Customs—</i>					
Maine:					
Aroostook	\$5,925 33				
Bangor	4,014 90				
Bath	10,212 17				
Belfast	2,255 25				
Castine	1,113 00				
Frenchman's Bay	4 40				
Machias	1,911 94				
Passamaquoddy	35,591 26				
Portland	437,242 58				
Waldoborough	4,498 35				
Wiscasset	159 54				
York	30 28				
		\$502,959 00			
New Hampshire:					
Portsmouth		9,774 49			
Vermont					
		583,681 61			
Massachusetts:					
Barnstable	971 62				
Boston and Charlestown	14,628,363 87				
Edgartown	1,589 30				
Fall River	41,615 29				
Gloucester	6,030 40				
Marblehead	2,310 99				
Nantucket	19 87				
New Bedford	16,382 46				
Newburyport	77,099 69				
Plymouth	22,411 24				
Salem	32,062 85				
		14,828,857 58			
Rhode Island:					
Newport	433 51				
Providence	153,631 01				
		154,064 52			
Connecticut:					
Fairfield	2,425 15				
Middletown	7,973 72				
New Haven	340,617 85				
New London	72,784 48				
Stonington	245 10				
		424,046 30			
New York:					
Albany	146,216 55				
Buffalo	459,538 53				
Cape Vincent	37,406 33				
Champlain	182,796 87				
Dunkirk	80 65				
Genesee	47,763 55				
New York	108,590,256 44				
Niagara	318,477 95				
Oswegatchie	184,371 59				
Oswego	576,184 90				
		110,543,093 36			
New Jersey:					
Great Egg Harbor	118 66				
Little Egg Harbor	39 50				
Newark	2,657 20				
Perth Amboy	1,397 49				
		4,212 85			
Pennsylvania:					
Erie	33,110 19				
Philadelphia	8,348,511 80				
Pittsburg	43,135 70				
		8,424,757 69			
Delaware					
		11,961 04			
Maryland:					
Baltimore	6,012,000 64				
Vienna	683 18				
		6,012,688 82			
District of Columbia:					
Georgetown		2,668 00			
Virginia:					
Alexandria	1,044 36				
Norfolk and Portsmouth	18,526 87				
Petersburg	3,055 67				
Richmond	25,844 32				
		48,471 22			
West Virginia:					
Wheeling		725 84			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Customs—Continued.</i>					
North Carolina:					
Albemarle	\$543 91				
Beaufort	485 35				
Pamlico	2,828 47				
Wilmington	51,160 87				
		\$55,018 60			
South Carolina:					
Beaufort	39,855 22				
Charleston	101,429 16				
Georgetown	52 20				
		141,336 58			
Georgia:					
Brunswick	11,545 96				
St. Mary's	1,980 51				
Savannah	91,988 38				
		105,514 85			
Florida:					
Apalachicola	156 34				
Fernandina	1,428 23				
Key West	288,712 08				
Pensacola	35,234 56				
St. Augustine	46 72				
St. John's	1,223 78				
St. Mark's	397 14				
		327,198 85			
Alabama:					
Mobile		28,593 55			
Mississippi:					
Pearl River	5,964 41				
Vicksburg	758 90				
		6,723 31			
Louisiana:					
New Orleans	2,277,710 40				
Teché	1,885 05				
		2,279,595 45			
Texas:					
Brazos de Santiago	40,117 71				
Corpus Christi	16,457 30				
Paso del Norte	19,229 63				
Saluria	9,067 30				
Texas	152,764 36				
		237,636 30			
Tennessee:					
Memphis	33,535 17				
Nashville	4,102 35				
		37,637 52			
Kentucky:					
Louisville	96,740 32				
Paducah	747 01				
		97,487 33			
Ohio:					
Cincinnati	284,897 02				
Cuyahoga	140,670 57				
Miami	33,349 86				
Sandusky	1,279 19				
		460,196 64			
Michigan:					
Detroit	22,133 05				
Huron	72,799 77				
Michigan	2,901 58				
Superior	5,228 56				
		303,062 96			
Indiana:					
Evansville	561 22				
New Albany	1,854 07				
		2,415 29			
Illinois:					
Cairo	23,230 15				
Chicago	1,451,490 03				
		1,474,720 18			
Missouri:					
St. Louis		1,345,978 79			
Minnesota:					
Duluth	9,735 48				
Minnesota	10,013 85				
		19,749 33			
Iowa:					
Burlington		310 72			
Wisconsin:					
Milwaukee		72,605 81			
Montana and Idaho		3,734 53			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Customs—Continued.</i>					
Nebraska:					
Omaha		\$1,282 09			
Alaska		405 89			
Oregon:					
Oregon	\$12,188 55				
Willamette	241,275 99				
		253,464 54			
Washington:					
Puget Sound		11,367 42			
California:					
San Diego	4,654 34				
San Francisco	8,345,069 16				
		8,349,723 50			
			\$157,167,722 35		
Less amount refunded for excess of deposits for unascertained duties, charged as an expenditure under the head of "Repayment of excess of deposits for unascertained duties"		\$1,863,657 85			
Amount refunded for duties collected from importers on articles subsequently exported, charged as an expenditure under the head of "Debentures and drawbacks"		1,626,562 17			
Amount returned to pay debentures and other charges arising from duties, charged as an expenditure under the head of "Debentures and other charges"		2,284 57			
Amount refunded to private parties for duties paid on articles entitled to be admitted free, or at less rates, charged as an expenditure under the head of "Refunding duties"		9,810 93			
Amount refunded to claimants from sale of unclaimed merchandise, charged as an expenditure under the head of "Unclaimed merchandise"		4,650 14			
Amount of drawback of duties paid on materials imported into the district of Chicago, charged as an expenditure under the head of "Drawback on certain articles imported into the district of Chicago"		481 28			
				\$3,507,446 94	\$153,660,275 41
From fines, penalties, and forfeitures, (customs service)			228,870 23		
Less amount charged as an expenditure under the head of "Collecting the revenue from customs"		228,412 54			
Less amount paid to informers and others as their share of penalties imposed by the Government, charged as an expenditure under the head of "Distributive shares of fines, penalties, and forfeitures in Alaska"		227 69			
Less repayment of moneys accruing from fines, penalties, and forfeitures, or other sources, erroneously received and covered into the Treasury before the payment of the proper informers' moieties, or other legal charges against the same, charged as an expenditure under the head of "Refunding moneys erroneously received and covered into the Treasury"		230 00			
				228,870 23	
From labor, drayage, and storage, (customs service)		83,165 85			
From weighing fees, (customs service)		58,785 20			
From services of United States officers, (customs service)		291,770 70			
From emolument fees, (customs service)		345,571 73			
From customs officers' fees, (customs service)		332,045 95			
From mileage of examiners, (customs service)		1,161 10			
			1,112,500 53		
Less amount expended on these accounts, charged under the head of "Expenses of collecting revenue from customs"				1,112,500 53	
<i>From Internal Revenue—</i>					
Maine:					
1st district	\$45,352 77				
2d district	20,138 33				
3d district	16,434 89				
4th district	12,528 44				
5th district	14,071 67				
		\$108,526 10			
New Hampshire:					
1st district	213,283 88				
2d district	68,076 68				
3d district	20,641 69				
		302,002 25			
Vermont:					
2d district	20,772 46				
3d district	48,644 52				
		69,416 98			
Massachusetts:					
1st district	52,734 88				
2d district	10,223 08				
3d district	1,175,572 32				

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Internal Revenue—Continued.</i>					
Massachusetts:					
4th district.....	\$230,735 24				
5th district.....	454,249 08				
6th district.....	378,301 96				
7th district.....	76,823 12				
9th district.....	12,526 79				
10th district.....	336,511 20				
		\$2,727,677 67			
Connecticut:					
1st district.....	386,973 37				
2d district.....	239,128 35				
		626,101 72			
Rhode Island.....		231,977 91			
New York:					
1st district.....	3,722,678 15				
2d district.....	1,707,741 34				
3d district.....	2,034,570 54				
4th district.....	1,292,629 36				
6th district.....	767 00				
8th district.....	5,060 00				
10th district.....	273,113 98				
11th district.....	134,401 79				
12th district.....	189,252 89				
13th district.....	86,881 74				
14th district.....	528,252 43				
15th district.....	200,225 56				
16th district.....	20,945 49				
17th district.....	23,984 08				
18th district.....	65,519 99				
19th district.....	23,136 57				
20th district.....	45,094 04				
21st district.....	324,625 34				
22d district.....	36,638 39				
23d district.....	258,863 15				
24th district.....	428,355 61				
25th district.....	48,487 07				
26th district.....	202,730 79				
27th district.....	158,302 80				
28th district.....	452,559 36				
29th district.....	54,833 54				
30th district.....	1,231,833 91				
32d district.....	1,673,371 83				
		15,224,856 74			
New Jersey:					
1st district.....	114,681 80				
2d district.....	201,282 14				
3d district.....	345,753 09				
4th district.....	222,946 07				
5th district.....	1,472,902 14				
		2,357,565 24			
Pennsylvania:					
1st district.....	1,206,388 94				
2d district.....	715,740 58				
3d district.....	1,654 24				
4th district.....	19,450 25				
5th district.....	184,158 51				
6th district.....	264,992 25				
7th district.....	9,429 81				
8th district.....	234,106 04				
9th district.....	389,285 49				
10th district.....	156,245 43				
11th district.....	108,450 29				
12th district.....	236,873 02				
13th district.....	31,429 48				
14th district.....	108,022 42				
15th district.....	351,792 49				
16th district.....	130,686 95				
17th district.....	45,631 39				
18th district.....	71,068 16				
19th district.....	92,255 42				
20th district.....	87,552 90				
21st district.....	422,349 33				
22d district.....	631,722 97				
23d district.....	493,737 51				
24th district.....	186,924 23				
		6,180,048 10			
Delaware.....		360,751 72			
Maryland:					
1st district.....	909,543 05				
3d district.....	1,582,149 97				
4th district.....	103,860 76				
5th district.....	164,698 64				
		2,760,252 42			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Internal Revenue—Continued.</i>					
District of Columbia.....		\$112,225 14			
Virginia:					
1st district.....	\$3,760 05				
2d district.....	985,255 84				
3d district.....	3,762,783 98				
4th district.....	180,678 27				
5th district.....	2,448,222 06				
6th district.....	173,958 96				
7th district.....	63,951 18				
8th district.....	51,335 26				
		7,669,945 60			
West Virginia:					
1st district.....	246,044 12				
2d district.....	226,796 15				
3d district.....	25,150 36				
		497,990 63			
North Carolina:					
1st district.....	21,439 25				
2d district.....	37,050 21				
3d district.....	29,040 01				
4th district.....	590,627 17				
5th district.....	683,183 54				
6th district.....	220,052 71				
7th district.....	48,115 85				
		1,634,508 74			
South Carolina:					
1st district.....	12,730 98				
2d district.....	54,424 91				
3d district.....	55,798 10				
		122,953 99			
Georgia:					
1st district.....	55,002 62				
2d district.....	64,765 41				
3d district.....	89,628 74				
4th district.....	181,106 84				
		390,503 61			
Florida.....		195,320 14			
Alabama:					
1st district.....	54,475 94				
2d district.....	42,917 11				
3d district.....	23,357 49				
		120,750 54			
Mississippi:					
1st district.....	25,395 65				
2d district.....	71,621 56				
3d district.....	17,328 06				
		114,345 27			
Louisiana:					
1st district.....	552,211 67				
2d district.....	37,634 37				
3d district.....	23,536 27				
		613,382 31			
Texas:					
1st district.....	120,308 41				
2d district.....	12,307 84				
3d district.....	70,445 80				
4th district.....	64,130 81				
		267,192 86			
Tennessee:					
1st district.....	50,585 26				
2d district.....	51,707 29				
3d district.....	47,921 99				
4th district.....	187,839 83				
5th district.....	410,646 18				
6th district.....	24,394 75				
7th district.....	51,477 88				
8th district.....	65,601 07				
		890,174 25			
Kentucky:					
1st district.....	430 46				
2d district.....	754,827 17				
3d district.....	93,655 87				
4th district.....	899,265 95				
5th district.....	2,732,488 74				
6th district.....	2,389,580 96				
7th district.....	1,704,076 74				
8th district.....	256,037 14				
9th district.....	208,853 39				
		9,039,216 42			
Arkansas:					
1st district.....	16,190 08				
2d district.....	20,220 57				
3d district.....	39,410 64				
		75,821 29			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Internal Revenue—Continued.</i>					
Ohio:					
1st district	\$8,055,449 72				
3d district	949,819 40				
4th district	489,528 81				
5th district	51,441 25				
6th district	619,946 86				
7th district	635,175 24				
8th district	45,945 18				
9th district	342,760 83				
10th district	973,674 42				
11th district	805,018 22				
12th district	423,633 80				
13th district	74,630 74				
14th district	63,412 70				
15th district	86,585 21				
16th district	81,511 00				
17th district	110,977 89				
18th district	808,633 78				
19th district	89,567 45				
		\$14,707,712 50			
Michigan:					
1st district	1,380,525 53				
2d district	54,065 97				
3d district	217,369 26				
4th district	97,651 75				
5th district	38,143 91				
6th district	113,392 76				
		1,901,149 18			
Indiana:					
1st district	509,245 79				
2d district	74,436 12				
3d district	310,173 86				
4th district	2,135,045 66				
5th district	44,669 53				
6th district	547,319 09				
7th district	742,079 32				
8th district	58,601 49				
9th district	87,251 59				
10th district	70,751 64				
11th district	40,797 88				
		4,620,371 97			
Illinois:					
1st district	7,865,821 79				
2d district	56,435 96				
3d district	616,461 06				
4th district	1,097,683 33				
5th district	4,874,263 74				
6th district	364,913 05				
7th district	70,175 31				
8th district	1,845,736 84				
9th district	99,148 64				
10th district	65,018 30				
11th district	26,859 26				
12th district	646,451 25				
13th district	49,299 04				
		17,678,267 57			
Wisconsin:					
1st district	2,306,038 00				
2d district	152,057 20				
3d district	185,016 21				
6th district	84,934 59				
		2,728,046 00			
Minnesota:					
1st district	74,075 90				
2d district	152,301 58				
		226,377 48			
Iowa:					
1st district	267,977 18				
2d district	164,233 34				
3d district	382,275 24				
4th district	79,161 66				
5th district	89,118 85				
6th district	56,176 26				
		1,038,942 53			
Missouri:					
1st district	3,726,287 90				
2d district	75,721 15				
3d district	124,791 09				
4th district	225,631 28				
5th district	147,371 58				
6th district	309,707 54				
		4,609,510 54			
Kansas		133,248 06			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Internal Revenue—Continued.</i>					
Nebraska.....		\$291,474 26			
Oregon.....		22,614 59			
California:					
1st district.....	\$2,726,075 19				
4th district.....	161,294 77				
5th district.....	100,337 11				
		2,987,707 07			
Arizona.....		10,230 86			
Colorado.....		70,231 81			
Dakota.....		10,941 88			
Idaho.....		19,573 46			
Montana.....		23,477 27			
Nevada.....		58,927 84			
New Mexico.....		22,063 50			
Utah.....		31,653 06			
Washington Territory.....		21,373 09			
Wyoming.....		11,437 97			
Miscellaneous:					
By Treasurer United States.....	5,076 94				
By Commissioner of Internal Revenue, (sale of stamps).....	6,083,576 51				
		6,088,653 45			
			\$110,007,493 58		
Less amount refunded for internal-revenue taxes collected on articles subsequently exported, charged as an expenditure under the head of "Allowance or drawbacks".....		\$32,248 73			
Amount refunded for taxes illegally assessed and collected, charged as an expenditure under the head of "Refunding taxes".....		169,136 77			
Amount refunded to parties for stamps purchased by them, which are by law no longer required to be used, &c., charged as an expenditure under the head of "Redemption of stamps".....		31,867 05			
Less repayment of moneys accruing from fines, penalties, and forfeitures, or other sources, erroneously received and covered into the Treasury, before the payment of the proper informers' moieties, or other legal charges against the same, charged as an expenditure under the head of "Refunding moneys erroneously received and covered into the Treasury".....		150 00			
Less amount paid to informers and others as their share of penalties imposed and collected by the Government, charged as an expenditure under the head of "Payment of informers' shares".....		1,450 98			
Less amount refunded for taxes collected on distilled spirits in bond which have been destroyed by fire or other casualty, charged as an expenditure under the head of "Repayment of taxes on distilled spirits destroyed by casualty".....		412 70			
				\$235,266 23	\$109,772,227 35
From salaries of storekeepers and other officers in charge of bonded warehouses.....			3,440 24		
Less amount repaid to the Government by private parties, charged as an expenditure under the head of "Assessing and collecting internal revenue".....				3,440 24	
<i>States and districts.</i>	<i>Total by districts.</i>	<i>Total by States.</i>			
<i>From Sales of Public Lands—</i>					
Ohio:					
Chillicothe.....		\$2,500 69			
Indiana:					
Indianapolis.....		829 89			
Illinois:					
Springfield.....		515 64			
Michigan:					
Detroit.....	\$2,847 11				
East Saginaw.....	3,373 48				
Ionia.....	6,869 59				
Marquette.....	26,742 61				
Traverse City.....	34,891 58				
		74,724 37			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Sales of Public Lands—Continued.</i>					
Wisconsin :					
Bayfield	\$11,731 87				
Eau Claire	21,204 43				
Falls St. Croix	8,213 25				
La Crosse	12,059 12				
Menasha	10,287 39				
Wausau	25,297 49				
		\$88,793 55			
Minnesota :					
Alexandria	5,578 85				
Detroit	4,012 55				
Duluth	12,511 82				
Litchfield	2,394 00				
New Ulm	2,888 31				
Redwood Falls	3,901 28				
St. Cloud	43,556 69				
Taylor's Falls	2,325 97				
Worthington	10,420 75				
		87,590 22			
Iowa :					
Des Moines	649 67				
Sioux City	2,121 53				
		2,771 20			
Missouri :					
Boonville	4,021 28				
Ironton	1,808 81				
Springfield	2,465 52				
		8,295 61			
Arkansas :					
Camden	2,080 26				
Dardanelle	850 00				
Harrison	888 92				
Little Rock	1,762 31				
		5,581 49			
Florida :					
Gainesville	6,492 60				
Tallahassee	1,253 88				
		7,746 48			
Alabama :					
Huntsville	5,772 07				
Mobile	2,490 67				
Montgomery	253 03				
		8,515 77			
Mississippi :					
Jackson		52 97			
Louisiana :					
Monroe	249 22				
Natchitoches	637 77				
New Orleans	235 78				
		1,122 77			
Kansas :					
Cawker City	11,538 10				
Concordia	9,632 58				
Hays City	1,100 00				
Independence	1,759 34				
Junction City	5,622 49				
Larned	2,494 12				
Neodesha	2,041 66				
Salina	19,386 71				
Topeka	5,573 22				
Wichita	19,363 19				
		78,511 41			
Nebraska :					
Beatrice	6,002 60				
Dakota	2,803 14				
Grand Island	11,213 87				
Lincoln	6,073 13				
Lowell	9,835 22				
Norfolk	1,867 51				
North Platte	6,186 15				
		43,981 62			
Idaho :					
Boise City	6,533 99				
Lewiston	4,389 63				
		10,923 62			
Dakota :					
Bismarck	1,789 65				
Fargo	9,277 45				
Sioux Falls	20,210 15				
Springfield	10,546 99				
Yankton	8,436 65				
		50,260 89			

RECEIPTS.

States and districts.	Total by districts.	Total by States.	Gross receipts.	Deductions.	Net receipts.
<i>From Sales of Public Lands—Continued.</i>					
Colorado:					
Central City	\$7,461 30				
Del Norte	980 62				
Denver	25,844 19				
Fair Play	1,222 83				
Golden City	2,098 08				
Pueblo	46,371 88				
		\$83,978 90			
Montana:					
Helena		12,496 66			
New Mexico:					
Santa Fé		285 00			
Nevada:					
Carson City	5,044 47				
Elko	2,708 25				
Eureka	2,510 00				
Pioche	835 00				
		11,097 72			
Oregon:					
Le Grand	11,902 39				
Linkville	3,814 41				
Oregon City	5,478 45				
Roseburg	25,313 79				
		46,509 04			
Washington:					
Olympia	44,369 80				
Vancouver	4,291 17				
Walla Walla	26,096 70				
		74,757 67			
Utah:					
Salt Lake		21,526 35			
Wyoming:					
Cheyenne		15,352 81			
Arizona:					
Florence	2,881 25				
Prescott	4,222 12				
		7,103 37			
California:					
Humboldt	73,137 85				
Independence	5,830 62				
Los Angeles	15,515 52				
Marysville	75,571 91				
Sacramento	68,270 60				
San Francisco	116,865 55				
Shasta	10,469 55				
Stockton	125,638 09				
Susanville	28,468 55				
Visalia	147,926 72				
		667,694 96			
Miscellaneous:					
Commissioner General Land Office		119 50			
			\$1,413,640 17		
Less amount paid to States as a fund from proceeds of public lands sold within their limits, charged as an expenditure under the head of "Two, three, and five per cent. fund to States"					\$94,436 52
Amount refunded to purchasers for lands erroneously sold to them, charged as an expenditure under the head of "Repayment for lands erroneously sold"					35,036 55
Amount refunded as an indemnity for swamp lands erroneously sold, charged as an expenditure under the head of "Indemnity for swamp lands"					43,386 94
				\$172,860 01	\$1,240,780 16
From registers' and receivers' fees, (land offices)			\$523,942 04		
Less amount deducted from salaries and commissions of registers and receivers		\$358,011 06			
Amount deducted from contingent expenses of land offices		47,819 56			
Amount deducted from expenses of depositing public moneys		4,173 32			
				410,003 94	113,938 10
From deposits by individuals for expenses of surveying public lands			122,910 34		
Less amount charged as an expenditure under this head				79,758 39	43,151 95
Miscellaneous—					
From copyright fees			12,426 64		
Less amount deducted from expenditures of "Salaries of Library of Congress"				12,426 64	
From consular fees			566,022 45		
Less amount expended for salaries and contingent expenses of consuls				566,022 45	
From consular receipts			386 47		
Less amount paid to the legal representatives of American citizens dying abroad				386 47	

RECEIPTS.

	Gross receipts.	Deductions.	Net receipts.
<i>Miscellaneous—Continued.</i>			
From reimbursement to the United States of one-half of five per cent. of expenses of United States and British Claims Commission.....	\$48,245 48		
Less amount charged as an expenditure under the head of "Salaries and expenses of United States and British Claims Commission".....		\$2,093 25	\$46,152 23
From passport fees.....	27,600 00		
Less amount deducted from ordinary expenses of foreign intercourse.....		27,600 00	
From premium on transfer drafts issued from Independent Treasury.. \$1,993 16			
From premium on gold bars..... 22 84			
	2,016 00		
Less amount deducted from the ordinary expenses of Independent Treasury.....		2,016 00	
From profits on coinage..... \$382,654 96			
From deductions from bullion deposits..... 69,574 44			
From assays and chemical examinations of ores..... 428 00			
	452,657 40		
Less amount deducted from salaries and expenses of mints and assay offices.....		452,657 40	
From marine-hospital tax.....	338,893 78		
Less amount applied to the support of marine-hospital service, charged as an expenditure under the head of "Marine-hospital service".....		338,893 78	
From steamboat fees.....	260,944 75		
Less amount expended for steamboat inspection service, charged as an expenditure under the head of "Steamboat-inspection service".....		212,392 02	48,552 73
From semi-annual tax on circulation and deposits of national banks.....	7,268,379 16		
Less amount expended on this account under the head of "Expenses of printing national currency"..... \$330,978 27			
Amount of excess of duty, charged as an expenditure under the head of "Refunding to national banking associations excess of duty" .. 258 40			
Amount charged as an expenditure under the head of "Reissuing national currency, (reimbursable)"..... 64,244 76			
Amount expended for "Examination of national banks and bank-note plates"..... 705 75			
		396,187 18	6,872,191 98
From interest repaid to the Government by Pacific Railway Companies, viz:			
Union Pacific Railroad..... \$688,652 04			
Central Pacific Railroad..... 67,125 28			
Kansas Pacific Railroad..... 112,291 95			
Central Branch, (Union Pacific Railroad)..... 11,875 00			
Sioux City and Pacific Railroad..... 2,330 64			
From interest on debts due the United States by individuals..... 12,357 63			
From rebate of interest on United States bonds..... 701 97			
	895,334 51		
Less these amounts deducted from expenditure on account of interest on public debt.....		895,334 51	
From proceeds of sales of Government property.....	1,278,693 87		
Less amount deducted from ordinary expenses of Treasury Department.....			
Quartermaster's department, (War)..... \$80,282 62			
Ordnance department, (War)..... 254,822 01			
Commissary department, (War)..... 716,881 23			
Medical department, (War)..... 16,581 50			
Engineer's department, (War)..... 1,905 37			
Pay department, (War)..... 8,927 61			
Adjutant General's office, (War)..... 58 50			
Signal office, (War)..... 179 95			
Secretary's office, War Department..... 24 36			
Bureau of Refugees, Freedmen, and Abandoned Lands, (War)..... 219 01			
Bureau of Equipment and Recruiting, (Navy)..... 24 75			
Bureau of Provisions and Clothing, (Navy)..... 9,052 73			
Bureau of Construction and Repair, (Navy)..... 2,416 14			
Bureau of Navigation, (Navy)..... 125,075 24			
Bureau of Ordnance, (Navy)..... 4,118 46			
Bureau of Yards and Docks, (Navy)..... 6,257 98			
Bureau of Steam Engineering, (Navy)..... 3,690 91			
Secretary's office, Navy Department..... 9,330 09			
House of Representatives..... 270 22			
Government Printing office..... 104 92			
State Department..... 16,339 54			
Interior Department..... 17,639 04			
Department of Justice..... 3,605 69			
Post Office Department..... 686 00			
	200 00		
		1,278,693 87	
From trust-fund interest, for support of free schools in South Carolina, (act March 3, 1873).....	3,161 41		
Less amount deducted from expenditures under said act.....		3,161 41	
From retroactive increase of salaries of certain members of Congress, returned to the United States as a donation.....	10,811 91		
Less amount charged as an expenditure on account of "Salaries and mileage of members and delegates," deducted from "Salaries," under the head of "Legislative".....		10,811 91	
From reimbursement to the United States for moneys advanced to pay indebtedness of the District of Columbia.....	237,132 72		
Less amount deducted from expenditure under the head of "Payment of indebtedness of District of Columbia".....		237,132 72	
From deductions on mutilated notes and currency.....	2,219 33		
Less amount deducted from "Expenses of national loan".....		2,219 33	
From sales of ordnance material, (War).....	58,221 36		
Less amount deducted from expenditure under that head.....		56,000 00	2,221 36

RECEIPTS.

	Gross receipts.	Deductions.	Net receipts.
<i>Miscellaneous—Continued.</i>			
From fees on letters-patent.....	\$728,919 80		
Less amount charged as an expenditure under the head of "Salaries and ordinary expenses of the Patent Office".....		\$672,539 37	\$56,380 43
From exemplification of papers, Land Office.....	5,170 85		
Less amount deducted from "Salaries of Land Office".....		5,170 85	
From proceeds of sales of Indian lands.....	\$237,910 54		
From interest on deferred payments on sales of Osage Indian lands....	5,407 91		
From interest on deferred payments on sales of Cherokee Indian lands....	353 21		
	243,671 66		
Less amount charged as an expenditure under the head of "Fulfilling treaties with Indian tribes, proceeds of lands".....		243,671 66	
From interest on Indian trust-fund stocks.....	\$239,312 48		
From Indian trust-fund stocks redeemed.....	122,881 03		
	362,193 51		
Less amount charged as an expenditure under the head of "Trust funds due Indian tribes".....		362,193 51	
From emolument fees of judicial officers.....	\$52,314 91		
From fines, penalties, and forfeitures, (judicial).....	88,240 92		
	140,555 83		
Less amount charged as expenses of United States courts.....		140,555 83	
From premium on sales of coin.....	3,979,279 69		3,979,279 69
From tax on seal skins.....	\$262,494 75		
From rent for year ending May 1, 1876, for taking seals in islands of St. Paul and St. George, Alaska.....	55,000 00		
	317,494 75		317,494 75
From sales of ordnance material, (Navy).....	32,782 64		32,782 64
From premium on subscription to funded loan of 1881.....	435 00		435 00
From forfeiture on subscription to funded loan of 1881.....	30 00		30 00
From profit on purchase of bonds for the sinking fund.....	1,370 62		1,370 62
From interest on Nashville and Decatur Railroad bonds, taken in compromise of a debt.....	3,200 00		3,200 00
From interest on Nashville and Chattanooga Railroad bonds, taken in compromise of a suit.....	20,000 00		20,000 00
From interest on East Tennessee, Virginia, and Georgia Railroad bonds, taken in compromise of a suit.....	7,600 00		7,600 00
From rent of buildings, lots, &c.....	22,075 80		22,075 80
From rent of property acquired under internal-revenue laws.....	630 65		630 65
From proceeds of property acquired under internal-revenue laws.....	782 55		782 55
From redemption of property under act of June 8, 1872.....	4,479 15		4,479 15
From rent of property purchased at direct-tax sales.....	2,396 07		2,396 07
From money received from persons unknown.....	5,618 62		5,618 62
From proceeds of sale of confiscated property.....	10,478 01		10,478 01
From wages of seamen forfeited to the United States by desertion.....	29 53		29 53
From assessment upon owners for deaths on shipboard.....	180 00		180 00
From donations toward reduction of the public debt.....	5,452 10		5,452 10
From internal and coastwise-intercourse fees.....	4,151 35		4,151 35
From forfeiture on contract by P. Merwin.....	750 44		750 44
From forfeiture by contractors for loss of Army stores.....	352 34		352 34
From forfeiture on contract for purchase of marine-hospital grounds at New Orleans.....	10,000 00		10,000 00
From unclaimed balances in disbursing accounts.....	892 74		892 74
From bribes to United States officers.....	26 21		26 21
From money forfeited by a deserter.....	33 15		33 15
From sale of captured Indian ponies.....	5,095 50		5,095 50
From reimbursement to United States expenses of surveying the Nolan private land claim in Colorado.....	1,570 16		1,570 16
From reimbursement to the United States for appropriations made by Congress to meet matured interest on non-paying trust-fund stocks.....	14,520 00		14,520 00
From moneys received from United States of Colombia on account of indebtedness of 1857 and 1864.....	22,871 66		22,871 66
From proceeds of town lots at Sault Ste. Marie, Mich.....	731 50		731 50
From proceeds of Georgia State bond.....	552 50		552 50
From amount returned by B. F. Dowell as fraudulent in Oregon Indian war claim.....	10 00		10 00
Grand total.....	288,000,051 10	11,668,306 67	276,331,744 43

RECAPITULATION OF RECEIPTS.

Customs service.....	\$158,509,093 11	\$4,848,817 70	\$153,660,275 41
Internal-revenue service.....	110,010,933 82	238,706 47	109,772,227 35
Public lands.....	2,060,492 55	662,622 34	1,397,870 21
Miscellaneous.....	17,419,531 62	5,918,160 16	11,501,371 46
Grand total.....	288,000,051 10	11,668,306 67	276,331,744 43

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
LEGISLATIVE.						
<i>United States Senate—</i>						
Salaries and mileage of Senators	\$389,382 11					
Salaries, officers and employés	138,956 31					
Contingent expenses:						
Stationery and newspapers		\$14,395 86				
Clerks to committees, pages, &c.	36,524 77					
Fuel for heating apparatus		9,943 18				
Furniture and repairs		8,661 12				
Labor		26,760 45				
Folding documents		8,000 00				
Packing-boxes		740 00				
Miscellaneous items		5,386 82				
Horses and wagons		5,877 50				
Salaries of Capitol police	30,154 00					
Salary of telegraph operator	1,181 52					
Reporting proceedings and debates	18,750 00					
Postage		100 00				
Expenses of compiling and preparing Congress- ional Directory				\$1,200 00		
Joint select committee to inquire into the affairs of the District of Columbia					\$480 00	
Joint select committee to prepare a suitable frame of government for the District of Columbia					4,725 01	
	614,948 71					
Deduct repayments to appropriations in excess of expenditures	250 53					
Total Expenses, Senate	614,698 18	79,864 93		1,200 00	5,205 01	\$700,968 12
<i>House of Representatives—</i>						
Salaries and mileage of Members and Delegates ...	\$1,472,333 86					
Salaries, officers and employés	221,155 40					
Contingent expenses:						
Clerks to committees	32,767 62					
Cartage		\$2,725 80				
Folding documents		45,814 44				
Fuel		8,000 00				
Horses and carriages		8,506 50				
Furniture and repairs		9,933 86				
Packing-boxes		3,020 00				
Newspapers and stationery		51,495 09				
Miscellaneous items		78,353 86				
Pages and mail boys	10,330 00					
Salaries of Capitol police	29,194 88					
Pay of reporters of proceedings	26,875 00					
Postage		500 00				
Payment for contesting seats, Forty-third Congress ..					\$34,875 18	
Payment of witness fees to W. D. Mims					111 00	
Equestrian statue of Nathaniel Greene				\$5,000 00		
Relief of Jos. S. Read					395 72	
		208,349 55				
Deduct repayments to appropriations in excess of expenditures		50 70				
Total Apparent Expenses	1,792,656 76	208,298 85		5,000 00	35,381 90	\$2,041,337 51
Deduct amount of retroactive increase of salaries refunded by certain Members as a donation to the Government, and covered into the Treasury as "Miscellaneous receipts"	10,811 91					
Deduct amount received and covered into the Treasury as proceeds of Government property		104 92				10,916 83
Total Actual Expenses, House Representatives	1,781,844 85	208,193 93		5,000 00	35,381 90	2,030,420 68
<i>Congressional Printer—</i>						
Salaries	\$11,336 40					
Contingent expenses		\$1,000 00				
Public printing and binding		1,658,965 85				
Lithographing, engraving, &c.		14,649 34				
Total Apparent Expenses	11,336 40	1,674,615 19				\$1,685,951 59
Deduct amount received and covered into the Treasury as a revenue from sale of waste paper, proceeds of Government property		16,339 54				16,339 54
Total Actual Expenses, Congressional Printer	11,336 40	1,658,275 65				1,669,612 05

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Library of Congress—</i>						
Salaries	\$29,294 04					
Increase of library		\$18,483 43				
Contingent expenses		2,493 18				
Works of art for the Capitol				\$22,500 00		
Plan for building for library of Congress			\$902 70			
Total Apparent Expenses	29,294 04	20,976 61	902 70	22,500 00		\$73,673 35
Deduct amount received and covered into the Treasury as copyright fees	12,426 64					12,426 64
Total Actual Expenses, Library of Congress	16,867 40	20,976 61	902 70	22,500 00		61,246 71
<i>Botanic Garden—</i>						
Salaries	\$12,145 98					
Improving Botanic Garden		\$16,925 00				
Improving buildings			\$2,988 04			
Total Botanic Garden	12,145 98	16,925 00	2,988 04			\$32,059 02
<i>Court of Claims—</i>						
Salaries of judges, &c.	\$30,087 25					
Contingent expenses		\$3,000 00				
Reporting decisions	1,000 00					
Payment of judgments		516,531 35				
Furniture and repairs		1,000 00				
Total Court of Claims	31,087 25	520,531 35				\$551,618 60
<i>Southern Claims Commission—</i>						
Salaries and expenses					\$51,800 00	\$51,800 00
Total Apparent Expenses, Legislative	\$2,491,218 61	\$2,521,211 93	\$3,890 74	\$28,700 00	92,386 91	5,137,408 19
Total Actual Expenses, Legislative	2,467,980 06	2,504,767 47	3,890 74	28,700 00	92,386 91	5,097,725 18
EXECUTIVE.						
<i>Executive Office—</i>						
Salary of the President	\$50,000 00					
Salary of the Vice-President	8,000 00					
Salaries	13,800 00					
Contingent expenses		\$6,000 00				
Postage		319 00				
Promoting the efficiency of the civil service		1,046 30				
Total Executive Office	71,800 00	7,365 30				\$79,165 30
DEPARTMENT OF STATE.						
<i>Salaries—</i>						
Department of State	\$96,238 28					
Additional salary to disbursing clerk	500 02					
Publishing laws		\$54,226 32				
Proof-reading, &c.		602 25				
Stationery, furniture, &c.		4,533 97				
Books and maps		350 89				
Contingent expenses		24,096 29				
Postage		1,122 15				
Lithographing		413 46				
Editing, publishing, and distributing Revised and Annual Statutes		19,405 07				
Total Apparent Expenses	96,738 30	104,750 40				\$201,488 70
Deduct amount received and covered into the Treasury as proceeds of Government property		17,639 04				17,639 04
Total Actual Expenses, Department of State	96,738 30	87,111 36				183,849 66
<i>Foreign Intercourse—</i>						
Salaries, United States and Spanish Commission ..	\$9,547 00					
Contingent expenses, United States and Spanish Commission		\$4,474 51				
Salaries and expenses of United States and British Claims Commission	2,093 25					
Salaries, United States and Mexican Claims Com- mission	16,363 06					
Contingent expenses, United States and Mexican Claims Commission		4,000 00				
Survey of boundary between United States and British possessions					\$39,865 00	
Salaries of ministers	233,296 07					
Salaries, secretaries of legation	21,663 33					
Salary of private amanuensis of minister to Great Britain	2,500 00					
Contingent expenses, foreign missions		61,920 28				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Foreign Intercourse—Continued.</i>						
Salaries of consuls, &c.....	\$462,861 43					
Salaries of interpreters to consulates in China, Ja- pan, and Siam.....	10,209 60					
Salaries of marshals for consular courts.....	5,903 05					
Expenses for interpreters, guards, &c., in Turkish Dominions.....		\$2,832 22				
Contingent expenses, United States consulates.....		159,518 98				
Prisons for American convicts.....		21,213 07				
Bringing home criminals.....		530 25				
Relief and protection of American seamen.....		35,099 21				
Rescuing shipwrecked American seamen.....		1,896 56				
Consular receipts.....		32,225 02				
Salaries, consular officers not citizens.....	3,236 86					
Salaries and expenses, Court of Commissioners of Alabama Claims.....	84,374 70					
Loss on bills of exchange, consular service.....		22 18				
Annual expenses of Cape Spartel light.....		285 00				
Awards to British claimants.....					\$1,929,819 00	
Allowance to widows or heirs of diplomatic officers who die abroad.....					907 83	
Repayment to Brazil money erroneously claimed and paid to United States.....					55,961 47	
Rent of court-house and jail in Japan.....		4,526 58				
International exposition at Vienna.....					6,172 66	
Expenses attending the visit of the King of Ha- waiian Islands.....					19,979 96	
Purchase and restoration to the family of Marquis de la Fayette of watch presented to him by Gen- eral Washington.....					241 00	
Relief of C. J. Sands, Brooklyn, N. Y.....					202 39	
Relief of Hon. Wm. Walker, Wisconsin.....					369 45	
Relief of Alexander Henderson.....					234 71	
Relief of M. Otterbourg, late consul, Mexico.....					3,177 06	
		328,543 86			2,056,930 53	
Deduct repayments to appropriations in excess of expenditures.....		35,849 90			2,452 00	
Total Apparent Expenses.....	852,048 35	292,693 96			2,054,478 53	\$3,199,220 84
Deduct from salaries of United States consuls, \$462,861 43, and from contingent expenses Uni- ted States consuls, \$103,161 02; these amounts having been received and covered into the Treas- ury as a revenue from "Fees of United States consuls," and paid to them as fees for certifying invoices, &c.						
Deduct from consular receipts, \$386 47, the amount paid to the legal representatives of the personal estates of American citizens who die abroad; this amount having been received and covered into the Treasury under that head.						
Deduct from salaries and expenses of United States and British Claims Commission, \$2,093 25, (the amount expended under that head,) being a portion of one-half of five per cent. reimbursed the United States under the sixteenth article of treaty with Great Britain of May 8, 1871.						
Deduct from the ordinary expenses of foreign in- tercourse, \$27,600, the amount received and cov- ered into the Treasury from passport fees.....	464,954 68	131,147 49				596,102 17
Total Actual Expenses, Foreign Intercourse.....	387,093 67	161,546 47			2,054,478 53	2,603,118 67
Total Apparent Expenses under State Depart- ment.....	948,786 65	397,444 36			2,054,478 53	3,400,709 54
Total Actual Expenses under State Depart- ment.....	483,831 97	248,657 83			2,054,478 53	2,786,968 33
TREASURY DEPARTMENT.						
<i>Salaries—</i>						
Office of Secretary of Treasury.....	\$476,698 97					
Office of Supervising Architect.....	31,423 51					
Office of First Comptroller.....	72,454 75					
Office of Second Comptroller.....	110,926 97					
Office of Commissioner of Customs.....	49,159 02					
Office of First Auditor.....	72,908 81					
Office of Second Auditor.....	266,583 22					
Office of Third Auditor.....	246,801 97					
Office of Fourth Auditor.....	77,697 46					
Office of Fifth Auditor.....	51,304 83					
Office of Auditor of the Treasury for Post Office Department.....	299,620 00					
Office of Treasurer of United States.....	414,361 44					

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Salaries—Continued.</i>						
Office of Register	\$243,337 50					
Office of Comptroller of the Currency	134,764 01					
Office of Commissioner of Internal Revenue	335,166 80					
Office of Light-house Board	14,201 91					
Bureau of Statistics	59,403 23					
Temporary clerks	37,249 57					
Two months' additional pay to discharged clerks ..	90,991 00					
Stationery for Treasury Department		\$49,524 24				
Repairs of sidewalk, Fifteenth street		15 67				
Postage		142,393 70				
<i>Contingent expenses—</i>						
Rent		13,100 00				
Binding, newspapers, &c.		12,000 00				
Furniture, &c.		22,700 00				
Investigation of accounts		4,000 00				
Fuel, &c.		14,000 00				
Freight, telegrams, &c.		5,000 00				
Horses, wagons, &c.		5,400 00				
Carpets and repairs		12,300 00				
Ice, &c.		11,000 00				
Gas, &c.		22,175 00				
Miscellaneous items		21,825 00				
		335,433 61				
Deduct repayments to appropriations in excess of expenditures		1,171 08				
Total Apparent Expenses	3,085,054 97	334,262 53				\$3,419,317 50
Deduct amount received and covered into the Treasury as proceeds of Government property		13,814 86				13,814 86
Total Actual Expenses, Treasury proper	3,085,054 97	320,447 67				3,405,502 64
<i>Independent Treasury—</i>						
<i>Salaries:</i>						
Office of assistant treasurer at Baltimore	\$23,940 00					
Office of assistant treasurer at Boston	34,126 56					
Office of assistant treasurer at Charleston	9,560 00					
Office of assistant treasurer at Chicago	15,189 18					
Office of assistant treasurer at Cincinnati	15,260 00					
Office of assistant treasurer at New Orleans	16,280 00					
Office of assistant treasurer at New York	146,024 34					
Office of assistant treasurer at Philadelphia	39,898 23					
Office of depositary at Pittsburg	3,920 00					
Office of assistant treasurer at St. Louis	15,800 00					
Office of assistant treasurer at San Francisco	25,160 00					
Office of depositary at Santa Fé	4,640 00					
Office of depositary at Tucson	1,875 00					
Designated depositaries	6,142 09					
Contingent expenses		\$95,159 57				
Checks and certificates of deposit		8,932 80				
Payment for coin, nickels, &c., destroyed at Chicago ..					\$809 04	
	357,815 40					
Deduct repayments to appropriations in excess of expenditures	1,528 00					
Total Apparent Expenses	356,287 40	104,092 37			809 04	\$461,188 81
Deduct amount received for "Premium on transfer drafts" furnished by the Independent Treasury, formerly by law credited to this appropriation, but now covered into the Treasury as a reve- nue	\$1,993 16					
Deduct amount received for premium on gold bars	22 84					
		2,016 00				2,016 00
Total Actual Expenses, Independent Treasury	356,287 40	102,076 37			809 04	459,172 81
<i>Mints and Assay Offices—</i>						
Salaries, office of the Director of the Mint	\$16,960 00					
Salaries, mint at Philadelphia	37,200 00					
Wages of workmen, mint at Philadelphia	243,931 03					
Contingent expenses, mint at Philadelphia		\$86,420 02				
Freight on bullion, mint at Philadelphia		10,100 86				
Artesian well, mint at Philadelphia				\$10,000 00		
Salaries, mint at Carson City, Nev.	24,433 61					
Wages of workmen, mint at Carson City, Nev.	103,000 00					
Contingent expenses, mint at Carson City, Nev.		201,469 80				
Salaries, mint at New Orleans	3,319 33					
Wages of workmen, mint at New Orleans	2,380 00					
Contingent expenses, mint at New Orleans		4,539 25				
Salaries, assay office at Charlotte, N. C.	3,300 00					
Wages of workmen, assay office at Charlotte, N. C.	315 50					

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Mints and Assay Offices—Continued.</i>						
Contingent expenses, assay office at Charlotte, N. C.		\$1,404 99				
Salaries, mint at Denver, Col.	\$10,400 00					
Wages of workmen, mint at Denver, Col.	15,335 00					
Contingent expenses, mint at Denver, Col.		5,000 00				
Salaries, mint at San Francisco, Cal.	25,666 67					
Wages of workmen, mint at San Francisco, Cal.	271,252 21					
Contingent expenses, mint at San Francisco, Cal.		97,208 78				
Salaries, assay office, Boise City, Idaho	6,984 00					
Wages of workmen, assay office, Boise City, Idaho.	2,529 84					
Contingent expenses, assay office, Boise City, Idaho.		3,933 55				
Salaries, assay office, New York	35,964 40					
Wages of workmen, assay office, New York	67,305 06					
Contingent expenses, assay office, New York		55,000 00				
Contingent expenses, mints and assay offices		1,455 92				
Recoinage of gold coin		54,990 04				
Wastage in refining silver		1,907 07				
Loss in redemption of old copper cents				\$5,139 48		
Total Apparent Expenses	870,276 65	523,430 28		15,139 48		\$1,408,846 41
Deduct the following items covered into the Treasury as revenues:						
"Profits of coinage," being a charge of one-half of one per cent., paid by private parties for coining gold and silver	382,654 96					
"Deductions from bullion deposits"—(prior to the passage of the act of July 20, 1868, the moneys accruing from this source were available for expenditure without being appropriated, and were, therefore, used by the mints without appearing as an expenditure; since that date they have been covered into the Treasury as a miscellaneous receipt)	\$69,574 44					
Income arising from assays and chemical examinations of ores	428 00					
Amount received and covered into the Treasury as proceeds of Government property	33,134 59					
		103,137 03				485,791 99
Total Actual Expenses, Mints and Assay Offices	487,621 69	420,293 25		15,139 48		923,054 42
<i>Territorial Governments—</i>						
Salaries, governor, &c., Territory of Arizona	\$14,741 76					
Legislative expenses, Territory of Arizona		\$19,897 00				
Contingent expenses, Territory of Arizona		1,000 00				
Salaries, governor, &c., Territory of Colorado	12,788 44					
Legislative expenses, Territory of Colorado		1,998 92				
Contingent expenses, Territory of Colorado		1,000 00				
Salaries, governor, &c., Territory of Dakota	12,875 00					
Legislative expenses, Territory of Dakota		24,100 04				
Contingent expenses, Territory of Dakota		1,000 00				
Salaries, governor, &c., Territory of Idaho	12,025 03					
Legislative expenses, Territory of Idaho		29,361 85				
Contingent expenses, Territory of Idaho		1,000 00				
Salaries, governor, &c., Territory of Montana	13,545 41					
Legislative expenses, Territory of Montana		25,010 25				
Contingent expenses, Territory of Montana		1,000 00				
Salaries, governor, &c., Territory of New Mexico	12,500 00					
Legislative expenses, Territory of New Mexico		5,592 95				
Contingent expenses, Territory of New Mexico		1,000 00				
Salaries, governor, &c., Territory of Utah	14,125 00					
Legislative expenses, Territory of Utah		3,386 84				
Contingent expenses, Territory of Utah		1,000 00				
Salaries, governor, &c., Territory of Washington	12,750 00					
Legislative expenses, Territory of Washington		8,921 76				
Contingent expenses, Territory of Washington		1,000 00				
Salaries, governor, &c., Territory of Wyoming	13,177 89					
Legislative expenses, Territory of Wyoming		1,417 24				
Contingent expenses, Territory of Wyoming		979 15				
Salaries, government of the District of Columbia	1,833 74					
General expenses of the District of Columbia		232,265 86				
Fire department, District of Columbia		59,291 66				
Salaries, Board of Health, District of Columbia	9,168 50					
Expenses of Board of Health, District of Columbia		32,220 00				
Refunding to District of Columbia expenditures on account of salaries and 3.65 bonds					\$46,202 70	
Payment of interest on 3.65 bonds of District of Columbia					154,554 64	
Payment of indebtedness of District of Columbia					1,300,000 00	
Total Apparent Expenses	129,530 77	452,443 52			1,500,757 34	\$2,082,731 63

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Territorial Governments—Continued.</i>						
Deduct from "payment of indebtedness of District of Columbia" the amount reimbursed the United States for moneys advanced for that purpose, covered into the Treasury as "Miscellaneous receipts"					\$237, 132 72	\$237, 132 72
Total Actual Expenses, Territorial Govern- ments	\$129, 530 77	\$452, 443 52			1, 263, 624 62	1, 845, 598 91
<i>Internal Revenue—</i>						
Expenses, assessing and collecting internal revenue		\$4, 289, 442 71				
Stamps, paper, and dies		627, 649 97				
Punishment for violation of internal-revenue laws		30, 095 00				
Allowance or drawback		32, 248 73				
Refunding taxes illegally collected		169, 136 77				
Refunding moneys erroneously received and cov- ered into the Treasury		150 00				
Redemption of stamps		31, 867 05				
Repayment of taxes on distilled spirits destroyed by casualty		412 70				
Payment of informers' shares		1, 450 98				
Relief of Jesse F. Moore and Charles W. Lewis					\$1, 041 06	
Relief of Jacob Harding					195 00	
Relief of Beck & Wirth, of Chicago, Ill					5, 773 00	
Relief of De Witt C. Chipman					5, 535 23	
		5, 182, 453 91				
Deduct repayment to appropriations in excess of expenditures		6, 484 89				
Total Apparent Expenses		5, 175, 969 02			12, 544 29	\$5, 188, 513 31
Deduct the following items covered into the Treas- ury as revenues:						
From "Expenses of assessing and collecting inter- nal revenue" the amount repaid to the Govern- ment by private parties for salaries of storekeep- ers and officers in charge of bonded warehouses, under act of March 3, 1869		\$3, 440 24				
From "Allowance or drawbacks" the internal revenue taxes col- lected on articles subsequently ex- ported, and therefore exempt from tax, and upon which the taxes were refunded		32, 248 73				
From "Refunding taxes" the amount illegally assessed and collected under internal-revenue laws, and which has been refunded to par- ties entitled thereto		169, 136 77				
From "Redemption of stamps" the amount originally covered into the Treasury as receipts from internal revenue		31, 867 05				
From "Refunding moneys errone- ously received and covered into the Treasury," being moneys erro- neously received and covered into the Treasury as fines, penalties, and forfeitures		150 00				
From "Payment of informers' shares" the amount refunded to informers and others as their share of the penalties imposed and col- lected by the Government from persons violating the internal-rev- enue laws, covered into the Treas- ury as receipts from internal reve- nue		1, 450 98				
From "Repayment of taxes on dis- tilled spirits destroyed by casu- alty" the amount of internal-rev- enue taxes collected on distilled spirits in bond, destroyed by casu- alty		412 70				
		238, 706 47				238, 706 47
Total Actual Expenses, Internal Revenue		4, 937, 262 55			12, 544 29	4, 949, 806 84
<i>Customs Service—</i>						
Collecting revenue from customs		\$7, 028, 521 80				
Building or purchase of such vessels as may be required for revenue service		80, 240 74				
Unclaimed merchandise		4, 650 14				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Customs Service—Continued.</i>						
Compensation of persons employed in insurrec- tionary States	\$4,068 65					
Refunding moneys erroneously received and cover- ed into the Treasury		\$230 00				
Repayment to importers, excess of deposits		1,863,657 85				
Debentures and other charges		2,284 57				
Debentures or drawbacks, bounties or allowances		1,626,562 17				
Refunding duties		9,810 93				
Distributive shares of fines, penalties, and for- feitures in Alaska		227 69				
Drawback on certain articles imported into dis- trict of Chicago		481 28				
Additional compensation to collectors	274 97					
Expenses of revenue-cutter service		897,985 85				
Construction of revenue vessels		6,767 29				
Furniture and repairs of same, for public buildings		153,706 61				
Fuel, light, and water for public buildings		295,033 36				
Pay of custodians and janitors	86,106 98					
Repair and preservation of public buildings			\$193,742 56			
Heating apparatus for public buildings			102,439 67			
Metric standard of weights and measures		3,994 78				
Building steam revenue vessel for Pacific coast				\$1,099 78		
Collecting information respecting the condition and importance of the fur trade of Alaska					\$787 51	
Compensation in lieu of moieties		67,134 18				
Relief of Wm B. Thomas, late collector of cus- toms, Philadelphia					3,000 00	
Relief of Bigler, Young & Co., of Pennsylvania					1,694 55	
Relief of Robert N. McMillan, late collector, &c., Tché, La					628 00	
Payment of judgments against Reuben H. Stephen- son, surveyor, port of Cincinnati					1,016 86	
Custom-house and post office at Rockland, Maine			69,602 76			
Custom-house and post office at Bath, Maine			4,407 63			
Custom-house at Burlington, Vt			5,933 60			
Custom-house at Boston, Mass			25,000 00			
Custom-house and post office at Newport, R. I.			1,000 00			
Custom-house and post office at Hartford, Conn			216,805 56			
Custom-house at New Haven, Conn			1,353 80			
Custom-house and post office at Albany, N. Y.			5,612 10			
Custom-house at Charleston, S. C			53,060 65			
Custom-house at New Orleans, La			196,596 02			
Custom-house and post office at Cincinnati, Ohio			717,789 95			
Custom-house, court-house, post office, &c., at Evansville, Ind			10,056 19			
Custom-house and sub-treasury at Chicago, Ill			819,377 16			
Custom-house at Nashville, Tenn			386 00			
Custom-house at Knoxville, Tenn			21,789 12			
Custom-house, court-house, and post office at Memphis, Tenn			200 00			
Custom-house at Milwaukee, Wis			38,433 70			
Custom-house and post office at Port Huron, Mich			89,282 18			
Custom-house at St. Louis, Mo			1,222,634 10			
Custom-house at St. Paul, Minn			27 00			
Custom-house at Portland, Oregon			71,332 07			
Appraisers' stores, San Francisco, Cal			89,471 62			
		12,041,289 24	3,956,333 44			
Deduct repayments to appropriations in excess of expenditures		2,217 85	6 67			
Total Apparent Expenses	90,450 60	12,039,071 39	3,956,326 77	1,099 78	7,126 92	\$16,094,075 46
Deduct from "Expenses of collecting revenue from customs" the amounts covered into the Treas- ury as revenues under the following heads:						
The amount received under the customs laws from "Fines, penalties, and forfeitures"	\$228,412 54					
The amount refunded to the Govern- ment by private parties for ex- penses on account of "Labor, dray- age, and storage"	83,165 85					
The amount received from private parties as "Weighing fees"	58,785 20					
The amount repaid to the Govern- ment by private parties for ser- vices performed in their behalf by United States officers	291,770 70					
The amount received from private parties as an excess of emolument fees paid to officers of the customs for services rendered	345,571 73					
The amount of travelling expenses of examiners repaid	1,161 10					

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Customs Service—Continued.</i>						
The amount received from fees paid to officers of the customs who now receive an annual salary, covered into the Treasury as customs officers' fees.....	\$332,045 95					
Deduct from "Repayment of excess of deposits for unascertained duties" the amount of money deposited by importers for unascertained duties, and which, being in excess of duty when ascertained, has been repaid, covered into the Treasury as revenue from customs.....	1,863,657 85					
Deduct from "Debentures and drawbacks" the amount of duties collected from importers on articles subsequently exported, thereby entitled to allowance or drawback, covered into the Treasury as revenue from customs.....	1,626,562 17					
Deduct from "Distributive shares of fines, penalties, and forfeitures in Alaska" the amount paid to informers and others as their share of the penalties imposed and collected by the Government from persons violating the customs laws, covered into the Treasury under this head.....	227 69					
Deduct from "Refunding duties" the amount refunded to private parties for duties paid by them on articles which were entitled to be admitted free, or at less rates, covered into the Treasury as customs.....	9,810 93					
Deduct from "Unclaimed merchandise" the amount refunded to claimants of the overplus received from sale of unclaimed merchandise, covered into the Treasury as revenue from customs.....	4,650 14					
Deduct from "Refunding moneys erroneously received and covered into the Treasury" as a miscellaneous receipt from fines, penalties, and forfeitures.....	230 00					
Deduct from "Debentures and other charges" amount refunded to claimants on account of expenses incurred and not paid until the amounts had been covered into the Treasury as a revenue from customs.....	2,284 57					
Deduct from "Drawback on certain articles imported into the district of Chicago," this amount, covered into the Treasury as revenue from customs.....	481 28					
Deduct amount received and covered into the Treasury as proceeds of Government property.....	33,333 17					
		\$4,882,150 87				\$4,882,150 87
Total Actual Expenses, Customs Service.....	\$90,450 60	7,156,920 52	\$3,956,326 77	\$1,099 78	\$7,126 92	11,211,924 59
<i>Marine-hospital Service—</i>						
Marine-hospital service.....		\$404,390 60				
Marine hospital, San Francisco, Cal.....			\$68,087 74			
Total Apparent Expenses.....		404,390 60	68,087 74			\$472,478 34
Deduct from "Marine-hospital service" the amount of marine-hospital tax covered into the Treasury as a revenue collected from vessels for the support of this service.....		338,893 78				338,893 78
Total Actual Expenses, Marine-hospital Service.....		65,496 82	68,087 74			133,584 56
<i>Life-saving Service—</i>						
Life-saving service.....	\$143,518 33					
Life-saving service, contingent expenses.....		\$19,686 19				
Establishment of new life-saving stations.....			\$12,530 08			
Establishment of new life-saving stations, coast of the United States.....			36,482 93			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Life-saving Service—Continued.</i>						
Establishment of life-saving stations, coast of New Jersey and Long Island			\$11,438 93			
		\$19,686 19				
Deduct repayment to appropriations in excess of expenditures		236 82				
Total Life-saving Service	\$143,518 33	19,449 37	60,451 94			\$223,419 64
<i>Light-house Establishment—</i>						
Salaries of keepers of light-houses	\$572,110 77					
Commissions to superintendents	11,051 30					
Supplies of light-houses		\$397,836 65				
Inspecting lights		2,000 00				
Expenses of light-vessels		205,176 07				
Expenses of buoyage		266,817 80				
Expenses of fog-signals		49,821 38				
Repairs and incidental expenses of light-houses			\$249,918 47			
Petit Menan light-station, Maine			5,000 00			
Avery's Rock light-station, Maine			8,309 52			
Egg Rock light-station, Maine			8,309 51			
Monhegan light-station, Maine			5,000 00			
Indian Island light-station, Maine			9,000 00			
Portland Breakwater light-station, Maine			6,000 00			
Day-beacons, Maine and Massachusetts			5,000 00			
Colchester Reef light-station, Vt.			5,000 00			
East Chop light-station, Mass			5,000 00			
Nausett Beach light-station, Mass			5,000 00			
Long Point light-station, Provincetown, Mass			13,000 00			
Bullock's Point Shoal light-station, R. I.			6,500 00			
Race Rock light-station, Conn			65,331 60			
Stonington Harbor light-station, Conn			1,500 00			
Saybrook light-station, Conn			1,500 00			
Bridgeport Harbor light-station, Conn			5,500 00			
Southwest Ledge light-station, Conn			42,000 00			
Hart Island light-station, Long Island, N. Y.			12,000 00			
Hudson City light-station, N. Y			9,475 73			
Block Island light-station, Long Island, N. Y.			38,910 78			
Thirty-mile Point light-station, N. Y.			13,000 00			
Stratford Shoals light-station, Long Island Sound, N. Y.			8,500 00			
Little Gull Island light-station, N. Y.			5,000 00			
Lloyd's Harbor light-station, N. Y.			2,000 00			
Juniper Island light-station, Lake Champlain, N. Y.			1,000 00			
Sister Islands light-station, N. Y			700 00			
Dunkirk light-station, N. Y			2,800 00			
Sandy Hook light-station, N. J			12,000 00			
Barneget light-station, N. J			1,200 00			
Maurice River light-station, N. J			700 00			
Highlands of Neversink light-station, N. J			1,500 00			
Cohansey light-station, N. J			400 00			
Schuylkill River light-station, Pa			3,000 00			
Misphillion River light-station, Del			5,000 00			
Liston's Tree light-station, Delaware bay			5,000 00			
Cape Henlopen light-station, Del			1,100 00			
Mahon's River light-station, Del			15,000 00			
Delaware Breakwater light-station, Del			600 00			
Brandywine Shoal light-station, Delaware bay			1,000 00			
Bulkhead Shoal light-station, Del			25,000 00			
Ship John Shoal light-station, Del			51,000 00			
Cross Ledge Shoal light-station, Delaware bay			35,000 00			
Craighill Channel light-station, Chesapeake bay, Md			43,244 25			
Love Point light-station, Md			5,000 00			
Thomas's Point Shoal light-station, Md			5,000 00			
Solomon's Lump light-station, Md			15,000 00			
Jordan's Point light-station, Va			1,500 00			
Dutch Gap Canal light-station, Va			10,603 67			
Assateague light-station, Va			300 00			
Tue's Marshes light-station, Va			15,000 00			
Winter-Quarter Shoals light-ship, Va			43,200 00			
Mathias Point light-station, Va			7,154 15			
Currituck Beach (Poyner's Hill) light-station, N. C.			68,633 80			
Roanoke Marshes light-station, N. C.			8,070 82			
Hunting Island light-station, S. C			27,376 25			
Morris Island light-station, S. C			30,000 00			
Day-beacons, Savannah river, Ga			2,500 00			
St. Augustin light-station, Fla			20,000 00			
Sand Key light-station, Fla			5,000 00			
Fowey Rocks light-station, Fla			29,844 90			
St. Andrew's Bay light-station, Fla			1,000 00			
Dog Island light-station, Fla			3,008 41			
Pass à l'Ouvre light-station, La			2,500 00			
Southwest Pass light-station, La			514 29			
Trinity Shoals light-station, La			1,500 00			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Light-house Establishment—Continued.</i>						
Timbalier light-station, La.....			\$15,000 00			
Point Aux Herbes light-station, La.....			11,272 95			
Southwest Pass depot, La.....			5,000 00			
Atchafalaya fog-signal, La.....			7,800 00			
Southwest Reef light-station, La.....			10,000 00			
Fog-bells at light-stations, Gulf of Mexico.....			5,000 00			
Lighting and buoyage of Mississippi, Ohio, and Missouri rivers.....			50,000 00			
Cleveland light-station, Ohio.....			8,129 00			
Conneaut light-station, Ohio.....			3,500 00			
Grand River light-station, Ohio.....			3,200 00			
Sandusky Bay day-beacons, Ohio.....			100 00			
Maumee Bay day-beacons, Ohio.....			350 00			
Maumee Outer Range light-station, Ohio.....			2,000 00			
Saginaw River light-station, Mich.....			500 00			
Windmill Point light-station, Mich.....			3,000 00			
White River light-station, Mich.....			5,000 00			
Thunder Bay River light-station, Mich.....			20,000 00			
Rock Harbor light-station, Mich.....			5,000 00			
Detroit depot, Mich.....			5,000 00			
Pierhead beacon-lights on the lakes, Mich.....			21,787 50			
Spectacle Reef light-station, Mich.....			3,999 14			
Isle Royal light-station, Mich.....			15,000 00			
Fort Gratiot light-station, Mich.....			10,000 00			
Fog-signals on the lakes.....			20,000 00			
St. Clair Flats light-station, Mich.....			10,000 00			
Poverty Island light-station, Wis.....			3,000 00			
Point Montara fog-signal, Cal.....			1,400 00			
Point Fermin light-station, Cal.....			115 00			
Piedras Blancas light-station, Cal.....			32,606 25			
Point Reyes light-station, Cal.....			2,997 00			
San Pablo Straits light-station, Cal.....			2,513 50			
Yerba Buena Island light-station, Cal.....			10,000 00			
Columbia River light-station, Oregon.....			15,412 57			
Columbia River day-beacons, Oregon.....			3,000 00			
Cape Flattery light-station, Washington Ter.....			18,000 00			
Smith's Island light-station, Washington Ter.....			1,500 00			
Admiralty Head light-station, Washington Ter.....			3,500 00			
Light-ship for general service.....			45,700 00			
Experiments with fog-signals.....				\$5,000 00		
			1,424,089 06			
Deduct repayments to appropriations in excess of expenditures.....			10,169 11			
Total Light-house Establishment.....	\$583,162 07	\$921,651 90	1,413,919 95	5,000 00		\$2,923,733 92
<i>Coast Survey—</i>						
Survey of the Atlantic and Gulf coasts.....				\$375,000 00		
Survey of the Western coast.....				230,988 79		
Geodetic surveying.....				50,000 00		
Vessels for the Coast Survey.....				112,948 01		
Publishing observations.....				8,993 95		
Survey of South Pass and bar, Mississippi river.....				5,000 00		
				782,930 75		
Deduct repayments to appropriations in excess of expenditures.....				2,295 31		
Total Coast Survey.....				780,635 44		\$780,635 44
<i>Steamboat-inspection Service—</i>						
Salaries.....	\$173,000 00					
Contingent expenses.....		\$39,392 02				
Total Apparent Expenses.....	173,000 00	39,392 02				\$212,392 02
Deduct from "Steamboat-inspection service" \$212,392 02; there having been covered into the Treasury, as a revenue from steamboat fees, the sum of \$260,944 75 received from owners of ves- sels, leaving an excess of receipts over the expenditures of \$48,552 73.....	173,000 00	39,392 02				212,392 02
<i>Bureau of Engraving and Printing—</i>						
Salaries.....					\$26,200 00	
Labor and expenses.....					1,104,160 29	
Material for work.....					139,856 71	
Paper for notes, bonds, and other securities.....					175,000 00	
Engravers' tools, machinery, &c.....					50,000 00	
Transportation of United States securities.....					76,452 41	
Machinery for maceration of national-bank notes and other obligations of the United States.....					10,000 00	
Total Bureau of Engraving and Printing.....					1,581,669 41	\$1,581,669 41

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Treasury Miscellaneous—</i>						
Expenses of national currency					\$330,978 27	
Expenses of national loan					2,444 47	
Refunding national debt					150,255 51	
Suppressing counterfeiting and fraud		\$120,615 20				
Collecting mining statistics		18,500 00				
Vaults, safes, and locks for public buildings			\$103,487 95			
Plans for public buildings			6,317 85			
Expenses of inquiry respecting food-fishes					3,886 12	
Illustrations for report on food-fishes					1,000 00	
Propagation of food-fishes					47,500 00	
Defending claims for cotton seized					14,290 75	
Repayment for lands sold for direct taxes					23,920 00	
Expenses of Smithsonian Institution		39,050 88				
Return of proceeds of captured and abandoned property. (This item is not, in reality, an expen- diture, although it must appear as such, from the fact that the proceeds of cotton sold, of which this is a return, were covered into the Treasury several years ago, and are not, there- fore, included in the receipts of this year)					880,619 34	
Collection of captured and abandoned property, records and evidence respecting same					630 50	
Refunding taxes illegally collected					893 00	
Refunding moneys erroneously received and covered into the Treasury					1,081 04	
Reissuing national currency, reimbursable					64,244 76	
Inquiries into the causes of steam-boiler explosions					8,474 01	
Purchase and management of Louisville and Port- land canal					107,794 31	
Trust-fund interest for support of free schools in South Carolina					3,900 00	
Refunding proceeds of cotton seized					36,938 72	
Refunding money for lands redeemed					980 23	
Refunding to national banking associations excess of duty					258 40	
Examination of national banks and bank-note plates					705 75	
Payment of interest on the public debt					103,093,544 57	
Reimbursement to city and county of San Fran- cisco for expenses of improvements of streets					8,269 33	
Medals to J. S. Crandall and others					174 75	
Payment of judgment recovered by John P. Tweed vs. B. F. Flanders					13,129 96	
International Exhibition, Treasury Department					200 00	
International Exhibition, Commission of Food- fishes					1,700 00	
International Exhibition, contingent expenses					5,000 00	
Building for State, War, and Navy Departments			1,019,996 58			
Branch-mint building at San Francisco, Cal.			141,705 68			
Treasury building, Washington, D. C.			43,214 60			
Post office and sub-treasury, Boston, Mass.			772,224 43			
Post office and court-house, New York			1,500,150 70			
Post office and court-house, Indianapolis, Ind.			51,419 38			
Court-house and post office, Omaha, Neb.			58,757 26			
Court-house and post office, Columbia, S. C.			152,963 91			
Court-house and post office, Raleigh, N. C.			78,076 45			
Court-house and post office, Utica, N. Y.			15 00			
Court-house and post office, Philadelphia, Pa.			1,494,223 46			
Court-house and post office, Trenton, N. J.			97,615 00			
Court-house and post office, Atlanta, Ga.			645 59			
Court-house and post office, Covington, Ky.			338 00			
Court-house and post office, Lincoln, Neb.			36,156 34			
Court-house, Washington, D. C.			3,000 00			
Court-house and post office, Grand Rapids, Mich.			69,996 01			
Post office, Dover, Del.			181 00			
Post office, Parkersburgh, W. Va.			80,508 18			
Post office, Jersey City, N. J.			500 00			
Sub-treasury building, San Francisco, Cal.			3,781 00			
Assay-Office building, Helena, Montana.			4,075 25			
General Post-Office building, Washington, D. C.			99,316 14			
Building for Little Sisters of the Poor, District of Columbia			25,000 00			
Building for Women's Christian Association, Dis- trict of Columbia			3,883 20			
Heating and lighting building for State, War, and Navy Departments		3,062 96				
Furniture for building for State, War, and Navy Departments		26,000 00				
Reimbursement to Boston for improvement of Chelsea street					1,638 53	
Payment of legal services rendered by Edmund Randolph					12,000 00	
Payment to R. A. Connolly amount of draft de- stroyed at Chicago					1,454 82	
Payment of checks of Roger S. Greene, U. S. judge.					562 79	

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Treasury Miscellaneous—Continued.</i>						
Payment to Dempsey & O'Toole.....					\$588 66	
Relief of Colonel E. McCarty.....					1,450 00	
Relief of Benjamin W. Reynolds.....					15 65	
Relief of J. and W. R. Wing, of New Bedford.....					642 22	
Relief of Wm. I. Blackistone, St. Mary's co., Md.....					972 00	
Relief of legal representatives of Jas. L. Collins, deceased.....					30,058 83	
Relief of James Coats, of Jackson, Miss.....					800 00	
Relief of the suffering poor of the District of Co- lumbia.....					10,000 00	
Relief of Mrs. S. A. Shelby.....					10,351 02	
Relief of John Brennan.....					643 00	
Relief of Joseph J. Petri, of Illinois.....					5,000 00	
Relief of J. E. D. Couzins, of St. Louis, Mo.....					2,000 00	
Relief of John Aldredge.....					7,795 08	
Relief of C. Parker, administrator.....					13,254 67	
Relief of Andrew Mason.....					10,000 00	
Relief of F. E. Spinner, Treasurer U. S.....					161 00	
Relief of certain inhabitants of Florida.....					427 00	
Deduct repayments to appropriations in excess of expenditures.....		207,229 04 13,235 66	5,847,548 96 4,279 92			
Total Apparent Expenses.....		193,993 38	5,843,269 04		104,912,629 06	\$110,949,891 48
Deduct "Expenses of printing national currency," \$330,978 27; "Reissuing national currency," (reimbursable,) \$64,244 76; "Refunding to na- tional banks, excess of duty," \$258 40; and "Examination of national banks and bank-note plates," \$705 75, there having been received and covered into the Treasury as a revenue from tax on circulation, &c., of national banks, \$7,268,379 16, leaving an excess of receipts over the expenditures of \$6,872,191 98...\$396,187 18						
Deduct from "Payment of interest on the public debt" the amount of in- terest received and covered into the Treasury as a miscellaneous revenue from the various Pacific Railroad Cos., \$882,274 91, and \$12,357 63 re- ceived and covered into the Treas- ury as interest on debts due the United States from various persons; also, \$701 97, rebate of interest on United States bonds.....	895,334 51					
Deduct from "Trust-fund interest for support of free-schools in South Ca- rolina, act March 3, 1873," the amount received and covered into the Treas- ury under said act.....	3,161 41					
Deduct from "Expenses of national loan," the amount received and cov- ered into the Treasury from deduc- tions on mutilated notes and cur- rency.....	2,219 33					
					1,296,902 43	1,296,902 43
Total Actual Expenses, Treasury Miscellaneous.....		193,993 38	5,843,269 04		103,615,726 63	109,652,989 05
Total Apparent Expenses, Treasury Depart- ment.....	5,431,280 79	20,208,146 38	11,342,055 44	801,874 70	108,015,536 06	145,798,893 37
Total Actual Expenses, Treasury Department.....	4,875,625 83	14,590,035 35	11,342,055 44	801,874 70	106,481,500 91	138,091,092 23
WAR DEPARTMENT.						
<i>Salaries—</i>						
Office of Secretary of War.....	\$85,375 92					
Office of Adjutant General.....	318,299 06					
Office of Quartermaster General.....	170,936 12					
Office of Commissary General.....	37,809 57					
Office of Surgeon General.....	188,080 00					
Office of Paymaster General.....	77,380 45					
Office of Chief of Engineers.....	30,443 48					
Office of Chief of Ordnance.....	26,930 00					
Office of Chief Signal Officer.....	4,369 24					
Office of Inspector General.....	2,640 00					
Bureau of Military Justice.....	13,840 00					
Superintendent of building occupied by the Com- missary General.....	250 00					
Superintendent, &c., War-Department building...	5,970 00					
Superintendent, &c., building corner Seventeenth and F streets.....	4,570 00					
Superintendent, &c., building corner Fifteenth and F streets.....	5,290 00					

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Salaries—Continued.</i>						
Superintendent, building corner Fifteenth and G streets	\$180 83					
Superintendent, building on Tenth street	170 50					
<i>Contingent Expenses—</i>						
Office of Secretary of War		\$11,986 52				
Office of Adjutant General		7,999 51				
Office of Quartermaster General		6,982 82				
Office of Commissary General		6,997 69				
Office of Surgeon General		6,995 75				
Office of Paymaster General		4,000 00				
Office of Chief of Engineers		2,999 73				
Office of Chief of Ordnance		2,000 00				
Bureau of Military Justice		499 86				
War-Department building		7,981 87				
Building corner Seventeenth and F streets		8,000 00				
Building corner Fifteenth and F streets		12,493 83				
Support and treatment of transient paupers				\$15,000 00		
Statue of General John A. Rawlins				3,000 00		
Bronze statue of Jefferson				1,013 00		
Purchase of lot and building on F street, west of Winder's building			\$35,000 00			
Purchase of house and lot adjoining Army Medical Museum			3,500 00			
Postage		69,469 71				
International Exhibition, War Department					\$2,000 00	
Deduct repayment to appropriations in excess of expenditures					2,000 00 32	
Total Apparent Expenses	972,535 17	148,407 29	38,500 00	19,013 00	1,999 68	\$1,180,455 14
Deduct amount received and covered into the Treasury as proceeds of Government property		506 57				506 57
Total Actual Expenses, War Department proper	972,535 17	147,900 72	38,500 00	19,013 00	1,999 68	1,179,948 57
<i>Chief of Engineers in Charge of Public Buildings and Grounds in Washington—</i>						
Salaries of employés, public buildings and grounds, under Chief Engineer	\$46,368 00					
Contingent expenses, public buildings and grounds, under Chief Engineer		\$2,000 00				
Repairs of Navy Yard and Upper bridges			\$7,000 00			
Repairs, fuel, &c., Executive Mansion		25,000 00				
Improvement and care of public grounds			131,350 00			
Lighting, &c., Capitol, Executive Mansion, &c.		40,742 38				
Washington aqueduct			44,399 65			
Chain bridge, across the Potomac river			4,980 00			
Anacostia bridge, District of Columbia			146,000 00			
Repairs of water-pipes and fire-plugs		10,000 00				
Telegraph to connect the departments with Capitol and Government Printing office			1,000 00			
Deduct repayment to appropriations in excess of expenditures		77,742 38 5 15				
Total under Chief of Engineers	46,368 00	77,737 23	334,729 65			\$458,834 88
MILITARY ESTABLISHMENT.						
<i>Pay Department—</i>						
Pay and travelling and general expenses	\$10,870,760 39					
Pay of Military Academy	201,999 58					
Pay in lieu of clothing for officers' servants	27 36					
Subsistence of officers					\$135 24	
Forage for officers' horses					14 93	
Bounty under act July 28, 1866, and subsequent acts					227,111 44	
Payment of expenses under reconstruction acts					240 04	
Collection and payment of bounty, prize-money, and other claims of colored soldiers and sailors					80,000 00	
Deduct repayments to appropriations in excess of expenditures					307,501 65 144,142 67	
Total Pay Department	11,072,787 33				163,358 98	\$11,236,146 31
<i>Commissary Department—</i>						
Subsistence of the Army		\$2,851,334 74				\$2,851,334 74
Deduct amount received and covered into the Treasury as proceeds of Government property		16,581 50				16,581 50
Total Actual Expenses, Commissary Department		2,834,753 24				2,834,753 24

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Quartermaster's Department—</i>						
Regular supplies of the Quartermaster's Depart- ment.....		\$4,298,334 57				
Incidental expenses.....		1,331,980 30				
Barracks and quarters.....		1,518,125 60				
Transportation of the Army and its supplies.....		4,122,303 43				
Horses for cavalry and artillery.....		258,823 40				
Clothing and camp and garrison equipage.....		1,390,680 92				
Preservation of clothing and equipage.....		30,000 00				
Stoves.....		15 00				
Keeping, transporting, and supplying prisoners of war.....					\$2,195 35	
National cemeteries.....					168,869 59	
Headstones for graves in national cemeteries.....					134,989 17	
Deduct repayments to appropriations in excess of expenditures.....		12,950,263 22 2,745 59				
Total Apparent Expenses.....		12,947,517 63			306,054 11	\$13,253,571 74
Deduct amount received and covered into the Treasury as proceeds of Government property.....		254,822 01				254,822 01
Total Actual Expenses, Quartermaster's De- partment.....		12,692,695 62			306,054 11	12,998,749 73
<i>Medical Department—</i>						
Medical and hospital department, (regular).....		\$206,021 92				
Medical and hospital department, (transfer).....		1,557 32				
Construction and repair of hospitals.....			\$87,299 36			
Medical museum and library.....		10,000 00				
Medical and surgical history.....				\$40,000 00		
Providing for the comfort of sick and discharged soldiers.....					\$9 34	
Total Apparent Expenses.....		217,579 24	87,299 36	40,000 00	9 34	\$344,887 94
Deduct amount received and covered into the Treasury as proceeds of Government property.....		1,905 37				1,905 37
Total Actual Expenses, Medical Department.....		215,673 87	87,299 36	40,000 00	9 34	342,982 57
<i>Ordnance Department—</i>						
Ordnance service.....		\$124,990 58				
Ordnance, ordnance stores, and supplies.....		362,086 53				
Manufacture of arms at national armories.....		100,000 00				
Arming and equipping the militia.....		489,832 72				
Ordnance material, (proceeds of sales).....		56,000 00				
Testing heavy rifled ordnance.....		8,000 00				
Tests of iron and steel.....		10,000 00				
Testing Lee's breech-loading gun.....		10,000 00				
Repairs of arsenals.....			\$49,998 38			
San Antonio arsenal.....			50,000 00			
Rock Island arsenal.....			420,750 00			
Benicia arsenal.....			57,307 00			
Springfield armory.....			20,000 00			
Total Apparent Expenses.....		1,160,909 88	598,055 38			\$1,758,965 26
Deduct from "Ordnance material, (proceeds of sales,) the amount expended, (\$56,000,) there having been received and covered into the Treasury from the sale of useless ordnance, &c., \$58,221 36, leaving an excess of receipts over the expenditures of \$2,221 36.....		\$56,000 00				
Deduct amount received and covered into the Treasury as proceeds of Gov- ernment property.....		716,881 23				
Total Actual Expenses, Ordnance Department.....		772,881 23	598,055 38			986,084 03
<i>Military Academy—</i>						
Current and ordinary expenses.....		\$58,956 97				
Miscellaneous items and incidental expenses.....		15,947 13				
Buildings and grounds.....			\$24,497 69			
Total Military Academy.....		74,904 10	24,497 69			\$99,401 79
<i>Engineer Department—</i>						
Fort Preble, Maine.....			\$23,726 31			
Fort Scammel, Maine.....			30,000 60			
Battery on Portland Head, Maine.....			4,522 04			
Batteries in Portsmouth harbor, N. H.....			29,999 00			
Fort Independence, Mass.....			14,990 00			
Fort Warren, Mass.....			20,000 00			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Engineer Department—Continued.</i>						
Fort Winthrop, Mass.			\$15,000 00			
Battery on Long Island Head, Mass.			33,000 00			
Fort Adams, R. I.			20,000 00			
Fort on Dutch Island, R. I.			20,000 00			
Fort Trumbull, Conn.			25,000 00			
Fort Hamilton and additional batteries, N. Y.			33,499 77			
Fort on site of Fort Tompkins, N. Y.			30,000 00			
Fort Schuyler, N. Y.			25,000 00			
Fort on Willet's Point, N. Y.			30,000 00			
Battery Hudson, N. Y.			23,000 00			
Battery at Finn's Point, opposite Fort Delaware, N. J.			28,000 00			
Fort Mifflin, Pa.			11,155 52			
Fort Delaware			25,000 00			
New fort opposite Fort Delaware, Delaware shore.			43,000 00			
Fort Monroe, Va.			30,000 00			
Fort Sumter, S. C.			30,000 00			
Fort Moultrie, S. C.			20,000 00			
Fort Pulaski, Ga.			20,000 00			
Fort Jackson, Ga.			693 39			
Fort Taylor, Fla.			19,999 58			
Fort Jackson, La.			38,396 00			
Fort St. Phillip, La.			32,604 00			
Fort at Alcatraz Island, Cal.			27,000 00			
Fort at Fort Point, Cal.			30,000 00			
Fort at Lime Point, Cal.			30,000 00			
Purchase of sites for sea-coast defences			28,950 00			
Engineer depot at Willet's Point, N. Y.			8,962 31			
Torpedoes for harbor defences				\$124,965 00		
Trials with torpedoes				10,000 00		
Contingencies of fortifications			80,680 94			
Surveys for military defences				91,661 95		
Surveys and reconnaissances in military divisions and departments				30,000 00		
			882,179 46			
Deduct repayments to appropriations in excess of expenditures			9,826 10			
Total Forts and Fortifications			872,353 36	256,626 95		\$1,128,980 31
<i>Improving Harbor at—</i>						
Camden, Maine			\$6,000 00			
Portland, Maine			35,000 00			
Burlington, Vt.			36,000 00			
Swanton, Vt.			8,000 00			
Salem, Mass.			10,000 00			
Wareham, Mass.			10,000 00			
Boston, Mass.			29,442 15			
Plymouth, Mass.			6,000 00			
Provincetown, Mass.			8,000 00			
Hyannis, Mass.			5,000 00			
Fall River, Mass.			10,000 00			
Newport, R. I.			10,000 00			
Block Island, R. I.			10,000 00			
Wickford, R. I.			5,000 00			
Breakwater at Block Island, R. I.			20,000 00			
New Haven, Conn.			5,000 00			
Bridgeport, Conn.			20,000 00			
Norwalk, Conn.			15,000 00			
Stonington, Conn.			20,000 00			
Milford, Conn.			5,000 00			
Waddington, N. Y.			12,000 00			
Plattsburg, N. Y.			10,000 00			
Ogdensburg, N. Y.			8,000 00			
Oswego, N. Y.			109,000 00			
Little Sodus Bay, N. Y.			18,000 00			
Great Sodus Bay, N. Y.			21,055 84			
Pultneyville, N. Y.			17,000 00			
Charlotte, N. Y.			2,000 00			
Oak Orchard, N. Y.			19,000 00			
Olcott, N. Y.			14,000 00			
Buffalo, N. Y.			132,287 76			
Dunkirk, N. Y.			50,000 00			
Wilson, N. Y.			6,000 00			
Marcus Hook, Pa.			1,000 00			
Erie, Pa.			35,000 00			
Wilmington, Del.			8,000 00			
Ice-harbor at Newcastle, Del.			7,500 00			
Constructing pier in Delaware bay, near Lewes, Del.			43,000 00			
Baltimore, Md.			85,000 00			
Crisfield, Md.			12,317 50			
Washington and Georgetown, D. C.			30,000 00			
Savannah, Ga.			50,000 00			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Improving Harbor at—</i>						
Cedar Keys, Fla.....			\$6,846 50			
Charleston, S. C.....			17,700 00			
Mobile, Ala.....			95,200 00			
Galveston, Texas.....			130,000 00			
Rocky River, Ohio.....			15,000 00			
Ashtabula, Ohio.....			34,994 00			
Grand River, Ohio.....			30,000 00			
Port Clinton, Ohio.....			5,000 00			
Black River, Ohio.....			25,000 00			
Vermillion, Ohio.....			8,000 00			
Huron, Ohio.....			2,500 00			
Sandusky City, Ohio.....			35,000 00			
Toledo, Ohio.....			75,000 00			
Conneaut, Ohio.....			2,500 00			
Cleveland, Ohio.....			30,500 00			
Breakwater at Cleveland, Ohio.....			1,500 00			
Ontonagon, Mich.....			22,000 00			
Eagle Harbor, Mich.....			15,000 00			
Ludington, Mich.....			23,000 00			
Aux Bees Scies, Mich.....			7 97			
Cheboygan, Mich.....			15,000 00			
Monroe, Mich.....			20,000 00			
Frankfort, Mich.....			12,000 00			
St. Joseph, Mich.....			2,000 00			
South Haven, Mich.....			6,000 00			
Saugatuck, Mich.....			9,000 00			
Grand Haven, Mich.....			55,000 00			
Muskegon, Mich.....			6,000 00			
Black Lake, Mich.....			10,007 35			
White River, Mich.....			5,003 53			
Pentwater, Mich.....			5,000 00			
Manistee, Mich.....			10,000 87			
Marquette, Mich.....			15,000 00			
Of refuge on Lake Huron, Mich.....			106,000 00			
Of refuge at entrance of Sturgeon Bay canal.....			10,000 00			
Michigan City, Ind.....			41,000 00			
Chicago, Ill.....			71,000 00			
Calumet, Ill.....			36,000 00			
Menomonee, Wis. and Mich.....			25,000 00			
Green Bay, Wis.....			10,000 00			
Port Washington, Wis.....			10,000 00			
Ahnapee, Wis.....			5,000 00			
Two Rivers, Wis.....			15,000 00			
Manitowoc, Wis.....			10,000 00			
Sheboygan, Wis.....			10,000 00			
Milwaukee, Wis.....			15,000 00			
Kenosha, Wis.....			25,000 00			
Racine, Wis.....			15,000 00			
Duluth, Minn.....			25,000 00			
Oakland, Cal.....			52,000 00			
San Francisco, Cal.....			29,000 00			
Breakwater at Wilmington, Cal.....			25,000 00			
San Diego, Cal.....			3,000 00			
Repairs of harbors on the Atlantic coast.....			496 59			
Repairs of harbors on the northern lakes.....			5,433 00			
			2,252,293 06			
Deduct repayment to appropriations in excess of expenditures.....			686 84			
Total Harbors.....			2,251,606 22			\$2,251,606 22
<i>Improving Rivers—</i>						
Sullivan river and falls, Maine.....			\$3,000 00			
Machias river, Maine.....			10,000 00			
Richmond's island, Maine.....			8,000 00			
Kennebec river, Maine.....			8,000 00			
Penobscot river, Maine.....			34,000 00			
Coheco river, N. H.....			16,000 00			
Merrimac river, Mass.....			32,000 00			
Taunton river, Mass.....			10,000 00			
Pawtucket river, R. I.....			9,000 00			
Pawcatuck river, R. I.....			10,000 00			
Connecticut river, Conn.....			20,000 00			
Housatonic river, Conn.....			10,000 00			
Hudson river, N. Y.....			57,500 00			
East river and Hell Gate.....			245,000 00			
East Chester creek, N. Y.....			2,000 00			
Channel between Staten Island and New Jersey.....			50,000 00			
Delaware river, N. J.....			14,000 00			
Passaic river, N. J.....			38,000 00			
Channel of Schuylkill river, Pa.....			32,000 00			
Delaware river at Fort Mifflin bar.....			58,500 00			
Delaware river at Horseshoe shoals.....			5,000 00			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Improving Rivers—Continued.</i>						
Elk river, Md.			\$10,000 00			
Chester river, Md.			10,000 00			
Wicomico river, Md.			15,000 00			
Rappahannock river, Va.			9,000 00			
Nansemond river, Va.			12,000 00			
James river, Va.			85,000 00			
Appomattox river, Va.			30,000 00			
Aquia creek, Va.			4,900 00			
Nomoni creek, Va.			8,000 00			
Occoquan river, Va.			7,000 00			
Elizabeth river, Va.			12,000 00			
Great Kanawha river, West Va.			30,000 00			
Upper Monongahela river, West Va.			20,000 00			
Cape Fear river, N. C.			70,000 00			
Roanoke river, N. C.			7,000 00			
Chattahoochie and Flint rivers, Ga.			20,000 00			
Oostenaula river, Ga.			10,000 00			
St. John's river, Fla.			2,000 00			
Apalachicola river, Fla.			10,000 00			
Choctawhatchie river, Ala. and Fla.			10,000 00			
Warrior and Tombigbee rivers, Ala.			10,000 00			
Yazoo river, Miss.			5,000 00			
Mouth of Mississippi river, La.			140,073 00			
Ouachita river, La. and Ark.			58,000 00			
Removing raft in Red river, La.			44,999 50			
White river, Ark.			50,000 00			
Red Fish bar, Galveston bay, Texas			11,500 00			
Cypress bayou, Texas			13,000 00			
Sabine pass, Texas			1,000 00			
Osage river, Mo.			25,000 00			
Tennessee river			135,000 00			
Cumberland river, Tenn.			25,000 00			
Ohio river			209,000 00			
Wabash river, Ind.			40,000 00			
Illinois river			74,000 00			
Rock Island rapids, Mississippi river			50,000 00			
Rock Island bridge			23,400 00			
Detroit river, Mich.			4,000 00			
St. Clair river, Mich.			15,000 00			
St. Clair Flats canal, Mich.			35,000 00			
St. Mary's river and St. Mary's Falls canal, Mich.			180,000 00			
Saginaw river, Mich.			15,000 00			
Fox and Wisconsin rivers, Wis.			375,000 00			
Des Moines rapids, Mississippi river			399,000 00			
Minnesota river, Minn.			15,000 00			
Falls of St. Anthony and navigation of Mississippi river			147,000 00			
Upper Willamette river, Oregon			7,500 00			
Upper Columbia river, Oregon			20,000 00			
Lower Willamette and Columbia rivers, Oregon			20,000 00			
Mississippi river			249,000 00			
Upper Mississippi			31,000 00			
Mississippi, Missouri, and Arkansas rivers			114,300 00			
Examinations and surveys on Pacific coast			1,400 00			
Surveys of northern and northwestern lakes			174,876 75			
Examinations, surveys, and contingencies of rivers and harbors			88,258 63			
Examinations and surveys on western and northwestern rivers			50 00			
Repair, preservation, extension, and completion of river and harbor works			20,719 88			
Surveys and estimates for improvements on transportation routes to the seaboard			193,500 00			
Survey of mouth of Mississippi river			24,845 88			
Exploration and survey of the territories west of one-hundredth meridian			30,000 00			
Deduct repayments to appropriations in excess of expenditures			4,129,323 64 118 68			
Total Rivers			4,129,204 96			\$4,129,204 96
Total Apparent Expenses			7,253,164 54	\$256,626 95		7,509,791 49
Deduct amount received and covered into the Treasury as proceeds of Government property			8,927 61			8,927 61
Total Actual Expenses under Chief Engineer			7,244,236 93	256,626 95		7,500,863 88
<i>Miscellaneous—</i>						
Expenses of Commanding General's office		\$5,000 00				
Expenses of recruiting		50,259 88				
Contingencies of Adjutant General's department		2,465 81				
Signal service		12,345 90				
Observation and report of storms		410,295 68				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Miscellaneous—Continued.</i>						
Travelling expenses of California and Nevada volunteers					\$10,185 15	
Travelling expenses of 1st Michigan cavalry					2,000 00	
Horses and other property lost in the military service					83,720 68	
Rogue River Indian war					17,068 70	
Commutation of rations to prisoners of war in rebel States					4,000 00	
Payment of stoppages or fines due the National Home for Disabled Volunteer Soldiers					911,505 12	
Support of Freedmen's Hospital and Asylum, Washington, D. C.					202 59	
Support of Bureau of Refugees, Freedmen, and Abandoned Lands, (transfer)					34,513 61	
Reimbursing Kentucky for expenses in suppressing the rebellion					35,490 65	
Refunding to States expenses incurred in raising volunteers					139,958 32	
Transportation, services, and supplies of Oregon and Washington volunteers, in 1855-'56					5,770 21	
Pay of Oregon and Washington volunteers, in 1855-'56					2,803 79	
Suppressing Indian hostilities in Montana					55,000 00	
Claims of loyal citizens for supplies furnished during the rebellion					1,265,170 40	
Suppressing Indian hostilities in Dakota					33,980 30	
Reimbursing Indiana for expenses incurred in enrolling her militia					11,218 96	
Salaries of civil commissioners on military-prison board	\$290 00					
Travelling expenses of military-prison board					559 93	
Military prison at Fort Leavenworth, Kansas			\$25,000 00			
Military bridge across North Platte river, near Fort Laramie			10,000 00			
Construction of a post on north fork of Loupe river, Neb.			50,000 00			
Construction and operation of a line of telegraph on the frontier settlements of Texas			100,000 00			
Telegraph from Prescott to Camp Verde and Camp Apache, Arizona			4,000 00			
Winter quarters for troops near Red Cloud and Whetstone Indian agencies			30,000 00			
Support of Soldiers' Home		\$154,604 01				
Report of exploration and survey of fortieth parallel				\$50,000 00		
Illustrations for report of geographical and geological surveys west of one-hundredth meridian				25,000 00		
Commission to investigate and report plan for the reclamation of alluvial basin of Mississippi river				20,000 00		
Purchase of the Brady collection of photographs of the war				25,000 00		
Publication of official records of the war of the rebellion				20,000 00		
Use of Dudley Observatory, Albany, N. Y.				20,000 00		
Contingencies of the Army, (regular)		35,310 67				
Contingencies of the Army, (transfer)		246 92				
Secret-service fund, (transfer)		72 00				
Expenses of military convicts		46,287 75				
Payment to Benn Pitman for copy of record in case of General D. C. Buell					990 50	
Payment to Captain James L. Fisk for protection of overland emigrants					7,862 37	
Payment to Louisville and Bardstown Turnpike Company, for construction of bridges					13,600 00	
Payment to John B. Eugene, late lieutenant 43d Wisconsin infantry					42 42	
Payment to Eunice Barcus for bounty and arrears due Henry Barcus					340 00	
<i>Relief of—</i>						
Certain settlers on the Fort Randall military reservation					3,186 90	
Persons suffering from the overflow of the Mississippi river					160,034 33	
Persons suffering from the ravages of grasshoppers					141,947 26	
William F. Kerr, of Indiana					131 50	
Ephraim P. Showalter					500 00	
Julius Griesenbeck, of Waco, Texas					212 50	
Selden Connor					200 00	
William J. McIntyre					199 20	
Thomas Simms					583 32	
John W. Divine					723 77	
Robert F. Winslow, of Illinois					813 82	
Kentucky Agricultural and Mechanical Association					25,000 00	
Oliver P. Mason					787 50	

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Relief of—</i>						
John J. Hayden					\$150 00	
Mrs. Louisa Eldis, of Sandusky, Ohio					691 83	
John Dold					1,525 83	
John N. Newman					623 40	
Henry P. Ingram and John H. Askins					668 65	
C. C. Spaid					555 11	
Captain James B. Thompson					606 21	
James M. True					380 89	
William A. Griffin					2,325 00	
Dewight Desilva					332 00	
Matthias Whitehead					154 17	
N. H. Dunphe					6,180 00	
John Fletcher					1,399 35	
M. Von Entress Fuersteneck, late 2d lieutenant 68th New York volunteers					1,455 20	
D. R. Haggard					4,000 00	
John L. Williams					1,460 00	
William M. Kimball					810 25	
Samuel S. Potter					750 00	
Washington Crosland					2,000 00	
		\$716,888 62	\$219,000 00		2,996,371 69	
Deduct repayments to appropriations in excess of expenditures		588 00	4,858 93		20,556 67	
Total Expenses, War Miscellaneous	\$290 00	716,300 62	214,141 07	\$160,000 00	2,975,815 02	\$4,066,546 71
Total Apparent Expenses, War Department	12,091,980 50	18,194,690 73	8,550,387 69	475,639 95	3,447,237 13	42,759,936 00
Total Actual Expenses, War Department	12,091,980 50	17,147,994 05	8,541,460 08	475,639 95	3,447,237 13	41,704,311 71
NAVY DEPARTMENT.						
<i>Salaries—</i>						
Office of Secretary of Navy	\$35,230 40					
Bureau of Yards and Docks	12,797 00					
Bureau of Equipment and Recruiting	11,978 80					
Bureau of Navigation	6,381 80					
Bureau of Ordnance	9,574 40					
Bureau of Construction and Repair	12,964 00					
Bureau of Steam Engineering	7,786 20					
Bureau of Provisions and Clothing	14,760 00					
Bureau of Medicine and Surgery	4,972 60					
Superintendent, &c., Navy-Department building	5,290 00					
<i>Contingent Expenses—</i>						
Office of Secretary of Navy		\$5,000 00				
Bureau of Yards and Docks		1,800 00				
Bureau of Equipment and Recruiting		850 00				
Bureau of Navigation		800 00				
Bureau of Ordnance		800 00				
Bureau of Construction and Repair		800 00				
Bureau of Steam Engineering		1,000 00				
Bureau of Provisions and Clothing		800 00				
Bureau of Medicine and Surgery		400 00				
Navy-Department building		7,000 00				
Postage		28,239 34				
Expenses incurred by reason of fire					\$12,000 00	
International Exhibition, Navy Department					1,300 00	
Total Apparent Expenses	121,735 20	47,489 34			13,300 00	\$182,524 54
Deduct amount received and covered into the Treasury as proceeds of Government property		270 22				270 22
Total Actual Expenses, Navy Department proper	121,735 20	47,219 12			13,300 00	182,254 32
NAVAL ESTABLISHMENT.						
<i>Marine Corps—</i>						
Pay of Marine Corps	\$719,917 01					
Provisions, Marine Corps		\$104,306 61				
Clothing, Marine Corps		83,020 09				
Fuel, Marine Corps		27,000 00				
Military stores, Marine Corps		9,006 00				
Transportation and recruiting, Marine Corps		4,500 00				
Repairs of barracks, Marine Corps		6,000 00				
Forage for horses, Marine Corps		6,000 00				
Quarters for officers, Marine Corps		14,500 00				
Contingent, Marine Corps		23,262 25				
Total Marine Corps	719,917 01	277,594 95				\$997,511 96

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Bureau of Yards and Docks—</i>						
Navy yard at Kittery, Maine.....			\$2,807 79			
Navy yard at Charlestown, Mass.....			1,478 22			
Navy yard at Brooklyn, N. Y.....			140 60			
Navy yard at Philadelphia, Pa.....			2,308 07			
Navy yard at Washington, D. C.....			1,749 35			
Navy yard at Norfolk, Va.....			50,470 86			
Navy yard at Pensacola, Fla.....			170,435 39			
Navy yard at Mare Island, Cal.....			350,417 84			
Navy yard at League Island, Pa.....			397,189 06			
Naval station at New London, Conn.....			49,999 44			
Naval station at Key West, Fla.....			7,244 64			
Naval asylum at Philadelphia, Pa.....			56,000 59			
Civil establishment, navy yard at Kittery, Maine.....		\$18,219 00				
Civil establishment, navy yard at Charlestown, Mass.....		22,754 00				
Civil establishment, navy yard at Brooklyn, N. Y.....		22,560 00				
Civil establishment, navy yard at Philadelphia, Pa.....		19,838 63				
Civil establishment, navy yard at League Island, Pa.....		2,753 02				
Civil establishment, navy yard at Washington, D. C.....		18,246 44				
Civil establishment, navy yard at Norfolk, Va.....		16,765 61				
Civil establishment, navy yard at Pensacola, Fla.....		6,455 00				
Civil establishment, navy yard at Mare Island, Cal.....		19,195 00				
Civil establishment, Yards and Docks.....		5,617 36				
Emergencies at naval stations.....		1 25				
Contingent, Yards and Docks.....		48,472 50				
General maintenance, Yards and Docks.....		753,556 98				
Repairs and preservation at navy yards.....			475,078 56			
Total Apparent Expenses.....		954,434 79	1,565,320 41			\$2,519,755 20
Deduct amount received and covered into the Treasury as proceeds of Government property.....		3,690 91				3,690 91
Total Actual Expenses, Bureau Yards and Docks.....		950,743 88	1,565,320 41			2,516,064 29
<i>Bureau of Equipment and Recruiting—</i>						
Equipment of vessels.....		\$1,099,601 75				
Contingent, Equipment and Recruiting.....		75,208 25				
Enlistment bounties to seamen.....		478 47				
		1,175,288 47				
Deduct repayments to appropriations in excess of expenditures.....		36 38				
Total Apparent Expenses.....		1,175,252 09				\$1,175,252 09
Deduct amount received and covered into the Treasury as proceeds of Government property.....		9,052 73				9,052 73
Total Actual Expenses, Bureau of Equipment and Recruiting.....		1,166,199 36				1,166,199 36
<i>Bureau of Navigation—</i>						
Navigation and navigation supplies.....		\$137,318 62				
Civil establishment, Navigation.....		543 68				
Contingent, Navigation.....		5,495 38				
Hydrographic work.....		90,835 73				
Naval Observatory.....		19,192 85				
Nautical Almanac.....		20,788 72				
Refracting telescope.....		5,231 67				
Tower for refracting telescope.....		1,982 91				
Pay, Naval Academy.....	\$118,213 47					
Contingent, Naval Academy.....		46,600 00				
Buildings and grounds, Naval Academy.....			\$14,000 00			
Deduct repayments to appropriations in excess of expenditures.....		327,989 56				
		6 04				
Total Apparent Expenses.....	118,213 47	327,983 52	14,000 00			\$460,196 99
Deduct amount received and covered into the Treasury as proceeds of Government property.....		4,118 46				4,118 46
Total Actual Expenses, Bureau of Navigation.....	118,213 47	323,865 06	14,000 00			456,078 53
<i>Bureau of Ordnance—</i>						
Ordnance and ordnance stores.....		\$359,054 79				
Civil establishment, Ordnance.....		236 14				
Contingent, Ordnance.....		850 83				
Torpedo corps.....		84,317 71				
Magazine at Washington.....			\$39,433 75			

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Bureau of Ordnance—Continued.</i>						
Magazine at Mare Island.....			\$916 00			
Magazine at Norfolk.....			23,938 00			
Deduct repayments to appropriations in excess of expenditures.....		\$444,459 47 2 31				
Total Apparent Expenses.....		444,457 16	64,287 75			\$508,744 91
Deduct amount received and covered into the Treasury as proceeds of Government property.....		6,257 98				6,257 98
Total Actual Expenses, Bureau of Ordnance.....		438,199 18	64,287 75			502,486 93
<i>Bureau of Construction and Repair—</i>						
Construction and repair.....		\$3,298,852 48				
Construction of eight steam vessels of war.....		186,565 47				
Protecting timber lands.....		5,155 47				
Repairs on double-turreted monitors.....		849,045 07				
Deduct repayment to appropriations in excess of expenditures.....		4,339,618 49 206 49				
Total Apparent Expenses.....		4,339,412 00				\$4,339,412 00
Deduct amount received and covered into the Treasury as proceeds of Government property.....		125,075 24				125,075 24
Total Actual Expenses, Bureau of Construc- tion and Repair.....		4,214,336 76				4,214,336 76
<i>Bureau of Steam Engineering—</i>						
Steam machinery.....		\$1,811,878 69				
Civil establishment, Steam Engineering.....		164 86				
Total Apparent Expenses.....		1,812,043 55				\$1,812,043 55
Deduct amount received and covered into the Treasury as proceeds of Government property.....		9,330 09				9,330 09
Total Actual Expenses, Bureau of Steam En- gineering.....		1,802,713 46				1,802,713 46
<i>Bureau of Provisions and Clothing—</i>						
Provisions, Navy.....		\$1,482,806 10				
Clothing, Navy.....		198,924 08				
Civil establishment, Provisions and Clothing.....		2,777 44				
Contingent, Provisions and Clothing.....		52,263 01				
Total Apparent Expenses.....		1,736,770 63				\$1,736,770 63
Deduct amount received and covered into the Treasury as proceeds of Government property.....		2,416 14				2,416 14
Total Actual Expenses, Bureau of Provisions and Clothing.....		1,734,354 49				1,734,354 49
<i>Bureau of Medicine and Surgery—</i>						
Surgeons' necessities and appliances.....		\$29,747 03				
Repairs and improvement of hospitals.....			\$10,976 33			
Naval-hospital fund.....		25,442 57				
Civil establishment, Medicine and Surgery.....		38,097 99				
Contingent, Medicine and Surgery.....		28,911 60				
Total Bureau of Medicine and Surgery.....		122,199 19	10,976 33			\$133,175 52
<i>Miscellaneous—</i>						
Pay of the Navy.....	\$6,445,001 91					
Contingent, Navy.....		\$97,519 70				
Prize-money to captors.....					\$479,982 22	
Bounty for destruction of enemy's vessels.....					50,419 32	
Indemnity for lost clothing.....		8,912 09				
Payments on contracts prior to March 4, 1869.....		57,330 68				
Observation of the transit of Venus.....					70,964 43	
Payment to officers and crew of the United States steamer "Kearsarge".....					2,040 87	
Navy pension fund.....					96,363 93	
Payment of shares in captures made by Admiral Farragut's fleet on Mississippi river.....					362,600 00	
Printing illustrations, Polaris expedition.....					2,554 50	
Statue of Admiral Farragut.....				\$5,000 00		
Relief of Mercy Ann Hall, widow of Capt. Charles F. Hall.....					16,936 00	
Relief of the heirs-at-law of William C. Brashear.....					6,904 75	
Relief of Francis Dodge, trustee for the owners of the schooner "Fairfax".....					6,000 00	
Relief of William J. Coite.....					953 33	
Relief of Daniel S. Mershon, jr.....					46,715 08	
Relief of Sarah B. Forest.....					800 00	

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Miscellaneous—Continued.</i>						
Relief of the survivors of the "Polaris".....					\$11,032 67	
Relief of certain officers of the Navy.....					50,625 14	
Relief of widows and orphans of officers, &c., of "Albany".....					168 00	
Relief of widows and orphans of officers, &c., of the "Levant".....					144 00	
Deduct repayments to appropriations in excess of expenditures.....					1,205,204 24 4,205 20	
Total Expenses, Navy Miscellaneous.....	\$6,445,001 91	\$163,762 47		\$5,000 00	1,200,999 04	\$7,814,763 42
Total Apparent Expenses, Navy Department..	7,404,867 59	11,401,399 69	\$1,654,584 49	5,000 00	1,214,299 04	21,680,150 81
Total Actual Expenses, Navy Department	7,404,867 59	11,241,187 92	1,654,584 49	5,000 00	1,214,299 04	21,519,939 04
INTERIOR DEPARTMENT.						
<i>Salaries—</i>						
Office of Secretary of the Interior.....	\$69,776 66					
General Land Office.....	234,552 53					
Office of Commissioner of Indian Affairs.....	65,660 62					
Office of Commissioner of Pensions.....	464,821 21					
Office of Commissioner of Patents.....	437,594 61					
Office of Commissioner of Education.....	18,354 25					
Secretary to sign land patents.....	1,622 20					
Additional pay to Wm. Syphax as assistant mes- senger.....	655 38					
Watchmen.....	21,350 69					
<i>Contingent Expenses—</i>						
Office of Secretary of the Interior.....		\$16,998 38				
General Land Office.....		29,999 76				
Office of Commissioner of Indian Affairs.....		8,000 00				
Office of Commissioner of Pensions.....		73,799 35				
Office of Commissioner of Patents.....		79,996 46				
Office of Commissioner of Education.....		17,208 28				
Fuel, lights, &c., Interior Department.....		20,000 00				
Repairs of building, Interior Department.....			\$20,000 00			
Rent of building for Interior Department.....		6,750 00				
Rent of rooms for Pension Office, &c.....		16,000 00				
Packing Congressional documents.....		7,500 00				
Postage, Interior Department.....		68,516 53				
Copies of drawings, office Commissioner of Patents.....		40,000 00				
Tracings of drawings, office Commissioner of Patents.....		35,000 00				
Photo-lithographing, office Commissioner of Patents.....		40,000 00				
Plates for Patent Office Official Gazette.....		39,948 30				
International Exhibition, Interior Department.....					\$3,000 00	
International Exhibition, Smithsonian Institution.....					10,000 00	
Total Apparent Expenses.....	1,314,388 15	499,717 06	20,000 00		13,000 00	\$1,847,105 21
Deduct from salaries, Patent Office, \$437,594 61; contingent expenses, Patent Office, \$79,996 46; copies of drawings, Patent Office, \$40,000; trac- ings of drawings, Patent Office, \$35,000; photo- lithographing, \$40,000; and from plates for Pat- ent Office Official Gazette, \$39,948 30, there having been received and covered into the Treasury, as a revenue from fees on letters-pat- ent, \$728,919 80, leaving \$56,380 43, as an excess of receipts over expenditures.....	\$672,539 37					
Deduct from salaries, Land Office, the amount received and covered into the Treasury as a revenue from exempli- fication of papers and records.....	5,170 85					
	442,765 46	234,944 76				677,710 22
Total Actual Expenses, Interior Department proper.....	871,622 69	264,772 30	20,000 00		13,000 00	1,169,394 99
PUBLIC LANDS.						
<i>Salaries—</i>						
Office surveyor general of Arizona.....	\$6,938 86					
Office surveyor general of California.....	24,635 83					
Office surveyor general of Colorado.....	9,077 48					
Office surveyor general of Dakota.....	8,237 74					
Office surveyor general of Florida.....	4,843 91					
Office surveyor general of Idaho.....	6,675 00					
Office surveyor general of Kansas.....	10,828 57					
Office surveyor general of Louisiana.....	5,920 47					
Office surveyor general of Minnesota.....	10,835 73					
Office surveyor general of Montana.....	8,001 92					
Office surveyor general of Nebraska and Iowa.....	8,300 00					

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Salaries—Continued.</i>						
Office surveyor general of Nevada	\$9,054 17					
Office surveyor general of New Mexico	9,274 54					
Office surveyor general of Oregon	8,966 80					
Office surveyor general of Utah	7,700 00					
Office surveyor general of Washington Territory ..	9,123 64					
Office surveyor general of Wyoming	9,428 65					
Recorder of land titles in Missouri	500 00					
Salaries and commissions of registers and receivers ..	358,011 06					
<i>Contingent Expenses—</i>						
Office surveyor general of Arizona		\$2,112 78				
Office surveyor general of California		7,508 86				
Office surveyor general of Colorado		1,498 43				
Office surveyor general of Dakota		1,895 24				
Office surveyor general of Florida		1,319 04				
Office surveyor general of Idaho		2,180 34				
Office surveyor general of Kansas		1,637 48				
Office surveyor general of Louisiana		1,754 77				
Office surveyor general of Minnesota		1,829 81				
Office surveyor general of Montana		2,347 89				
Office surveyor general of Nebraska and Iowa		2,414 55				
Office surveyor general of Nevada		3,884 21				
Office surveyor general of New Mexico		2,352 81				
Office surveyor general of Oregon		2,350 04				
Office surveyor general of Utah		1,732 85				
Office surveyor general of Washington Territory ..		1,846 87				
Office surveyor general of Wyoming		1,468 62				
Contingent expenses of land offices		47,819 56				
Expenses of depositing public moneys		4,173 32				
Depredations on public timber		3,398 05				
Surveying public lands in Arizona				\$17,504 21		
Surveying public lands in California				98,845 81		
Surveying public lands in Colorado				52,756 52		
Surveying public lands in Dakota				52,415 65		
Surveying public lands in Florida				14,378 30		
Surveying public lands in Idaho				26,085 71		
Surveying public lands in Kansas				88,032 67		
Surveying public lands in Louisiana				8,706 74		
Surveying public lands in Minnesota				34,126 97		
Surveying public lands in Montana				40,309 33		
Surveying public lands in Nebraska				53,633 74		
Surveying public lands in Nevada				45,131 21		
Surveying public lands in New Mexico				30,518 68		
Surveying public lands in Oregon				63,495 82		
Surveying public lands in Utah				22,283 85		
Surveying public lands in Washington Territory ..				55,910 25		
Surveying public lands in Wyoming				48,953 92		
Survey of southern boundary of Colorado				2,282 25		
Survey of northern boundary of Nebraska				8,069 49		
Survey of eastern boundary of New Mexico				1,380 00		
Survey of western boundary of Wyoming				13,850 00		
Survey of boundary between the Territories of Idaho and Washington				5,190 00		
Survey of exterior boundaries, Indian reservations ..				37,563 83		
Survey of Indian reservations				177,522 70		
Survey and appraisal of useless military reser- vations				4,898 57		
Surveying land of the Cherokees of North Carolina ..				791 35		
Examinations of the public surveys				3,791 17		
Geological survey of the Territories				165,000 00		
Deposits by individuals for expenses of surveying public lands				79,758 39		
Repayment for lands erroneously sold				35,036 55		
Indemnity for swamp lands purchased by indi- viduals				43,386 94		
Travelling expenses of commissioner to ascertain possessory rights of British subjects to certain lands in Northwestern Territory					\$1,000 00	
Illustrations for report on the geological survey of the Territories				35,000 00		
Reimbursement to Chicago and Northwestern Rail- road Company, on account of surveys in Dakota ..					10,600 00	
Examination as to occupancy of Rancho Panoche Grande					849 23	
Pay of commissioners to ascertain value of certain lands in Iowa held under homestead laws	5,166 00					
Five per cent. fund, State of Minnesota				5,067 93		
Five per cent. fund, State of Michigan				21,289 31		
Five per cent. fund, State of Oregon				1,245 75		
Five per cent. fund, State of Wisconsin				63,855 75		
Five per cent. fund, State of Nebraska				2,776 05		
Three per cent. fund, State of Missouri				121 04		
Two per cent. fund, State of Missouri				80 69		
Total Apparent Expenses	521,520 37	95,525 52		1,461,047 14	12,449 23	\$2,090,542 26

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Contingent Expenses—Continued.</i>						
Deduct the amounts under the heads of "Two, three, and five per cent. fund to States," being the per centum of the proceeds of public lands sold within their limits, and which has been covered into the Treasury as sales of public lands						\$94,436 52
Deduct amount of "Indemnity for swamp lands," it being a return of the purchase money paid for lands erroneously sold, covered into the Treasury as sales of public lands...						43,386 94
Deduct amount of "Deposits by individuals for expenses for surveying public lands," it being an excess of moneys deposited by individuals for expenses of surveying public lands.						79,758 39
Deduct amount of "Repayment for lands erroneously sold," it being refunded to purchasers for lands erroneously sold to them, covered into the Treasury as sales of public lands.						35,036 55
				\$252,618 40		
Deduct from "Salaries and commissions of registers and receivers," \$358,011 06; from "Contingent expenses land offices," \$47,819 56; and from "Expenses of depositing public moneys," \$4,173 32; there having been received and covered into the Treasury as a revenue from fees for services rendered by these officers, \$523,942 04, leaving an excess of receipts over the expenditures of \$113,938 10.....	\$358,011 06	\$51,992 88				\$662,622 34
Total Actual Expenses, Public Lands.....	163,509 31	43,532 64		1,208,428 74	\$12,449 23	1,427,919 92
<i>Beneficiaries—</i>						
Current expenses, Government Hospital for the Insane				\$152,151 00		
Buildings, Government Hospital for the Insane			\$62,956 00			
Current expenses, Columbia Hospital for Women and Lying-in Asylum				24,000 00		
Grounds, Columbia Hospital for Women and Lying-in Asylum			33,498 00			
Current expenses, Columbia Institution for the Deaf and Dumb				48,000 00		
Buildings, Columbia Institution for the Deaf and Dumb			29,000 00			
Current expenses, National Soldiers' and Sailors' Orphans' Home.....				23,350 97		
Maryland Institution for Instruction of the Blind				2,804 16		
Support of Children's Hospital				5,000 00		
Support of Freedmen's Hospital and Asylum, Washington, D. C				50,000 00		
National Association for relief of Colored Women and Children, District of Columbia.....				10,000 00		
Total Beneficiaries			125,454 00	315,306 13		\$440,760 13
<i>Miscellaneous—</i>						
Preservation of collections, Smithsonian Institution		\$30,000 00				
Capitol extension			\$6,322 65			
Annual repairs of Capitol			69,800 00			
Improving the Capitol grounds			220,000 00			
Purchase of site for fire-engine house in District of Columbia			18,000 00			
Engine-house near the Capitol			10,000 00			
Building and grounds, Reform School, District of Columbia			31,765 49			
Jail for the District of Columbia			128,500 00			
Expenses of valuation of Government property in District of Columbia				\$2,500 00		
New school-building, Georgetown, D. C			50,865 00			
Expenses of Eighth Census				13,074 38		
Statistical Atlas of the United States				10,500 00		
Map of the United States				5,000 00		
Statistics and historical data respecting Indians of the United States				3,500 00		
Payment to Binger Herman, late receiver, Roseburg, Oregon					\$545 77	
Relief of S. D. Houston					223 34	

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Miscellaneous—Continued.</i>						
Relief of Sebastian Reichert					\$600 00	
Relief of William Pelham, late surveyor general of New Mexico					518 90	
			\$535,253 14	\$34,574 38		
Deduct repayments to appropriations in excess of expenditures			9,582 65	4 98		
Total Apparent Expenses		\$30,000 00	525,670 49	34,569 40	1,888 01	\$592,127 90
Deduct amount received and covered into the Treasury as proceeds of Government property		3,605 69				3,605 69
Total Actual Expenses, Interior Miscellaneous		26,394 31	525,670 49	34,569 40	1,888 01	588,522 21
<i>Pensions—</i>						
Army pensions					\$29,360,447 78	
Navy pensions					122,265 60	
					29,482,713 38	
Deduct repayments to appropriations in excess of expenditures					26,670 49	
Total Pensions					29,456 042 89	\$29,456,042 89
INDIAN AFFAIRS.						
<i>Salaries and Allowances—</i>						
Pay of special agents	\$8,851 85					
Pay of superintendents and agents	120,713 25					
Pay of interpreters	34,160 30					
Pay of clerk to superintendent in California	435 00					
Pay of clerk for Central superintendency	3,400 00					
Pay of clerk for Northern superintendency	1,200 00					
Pay of Indian inspectors	12,126 68					
Salary of Ouray, head chief of the Ute nation	1,000 00					
Travelling expenses of Indian inspectors		\$5,488 61				
	181,887 08					
Deduct repayment to appropriations in excess of expenditures	611 13					
Total Salaries and Allowances	181,275 95	5,488 61				\$186,764 56
<i>Fulfilling Treaties with—</i>						
Apaches, Kiowas, and Comanches		\$93,217 62				
Assinaboines		26,204 96				
Blackfeet, Bloods, and Piegiens		50,213 18				
Calapooias, Molallas, and Clackamas of Willamette Valley		5,500 00				
Comanches, Kiowas, and Apaches of Arkansas river		12 83				
Cheyennes and Arapahoes		48,410 04				
Chickasaws		3,000 00				
Chippewas, Boise Fort band		16,985 79				
Chippewas of Lake Superior		27,627 59				
Chippewas of the Mississippi		61,543 98				
Chippewas, Pillager and Lake Winnebagoishish bands		29,243 96				
Chippewas of Red Lake and Pembina tribe of Chippewas		36,778 76				
Chippewas of Saginaw, Swan creek, and Black river		2,448 61				
Choctaws		30,032 89				
Confederated tribes and bands in Middle Oregon		14,379 30				
Creeks		71,437 72				
Crows		181,945 12				
Delawares		55,091 85				
D'Wamish and other allied tribes in Washington		13,700 00				
Flatheads and other confederated tribes		20,139 59				
Gros Ventres		30,326 82				
Iowas		2,875 00				
Kansas		10,000 00				
Kickapoos		98,745 61				
Klamaths and Modocs		13,971 48				
Makahs		8,375 19				
Menomonees		13,482 55				
Mixed Shoshones, Bannocks, and Sheep eaters		26,173 01				
Miamies of Eel river		1,100 00				
Miamies of Indiana		9,834 15				
Miamies of Kansas		38,586 03				
Molels		2,774 12				
Navajos		88,776 23				
Nez Percés		29,781 23				
Nisqually, Puyallup, and other tribes and bands		9,200 00				
Northern Cheyennes and Arapahoes		65,767 34				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Fulfilling Treaties with—</i>						
Omahas		\$25,499 90				
Osages		18,456 00				
Ottawas and Chippewas of Michigan		814 68				
Ottoes and Missourias		9,989 88				
Pawnees		55,756 91				
Poncas		22,379 68				
Pottawatomies		33,131 41				
Pottawatomies of Huron		400 00				
Quapaws		2,660 00				
Qui-nai-elts and Quil-leh-utes		6,968 37				
River Crows		18,021 15				
Rogue Rivers		4,134 79				
Sacs and Foxes of the Mississippi		50,990 50				
Sacs and Foxes of the Missouri		9,070 00				
Seminoles		67,530 15				
Senecas		2,660 00				
Senecas and Shawnees		2,060 00				
Senecas, Shawnees, Quapaws, Peorias, Ottawas, Wyandottes, and others		11,123 29				
Shawnees		5,000 00				
Shoshones—Eastern, Western, Northwestern, and Goship bands		21,257 37				
Shoshones and Bannocks		77,095 22				
Six Nations of New York		4,716 51				
Sioux of different tribes, including Santee Sioux in Nebraska		1,489,429 27				
Sioux, Yankton tribe		41,238 94				
Sisseton, Wahpeton, and Santee Sioux of Lake Traverse and Devil's Lake		85,187 01				
S'Klallams		10,000 00				
Snakes, Wall-pah-pe tribe		6,976 87				
Tabeguache, Muache, Capote, Weeminuche, Yam- pa, Grand River, and Uintah bands of Utes		42,915 66				
Umpquas, Cow Creek band		62 42				
Umpquas and Calipooias of Umpqua Valley, Oregon		5,027 43				
Utahs, Tabeguache band		2,391 10				
Walla-Walla, Cayuse, and Umatilla tribes		16,537 24				
Winnebagoes		99,739 58				
Yakamas		24,400 00				
Cherokees, proceeds of school lands		97 33				
Cherokees, proceeds of lands		66,770 08				
Menomonees, proceeds of lands		147 43				
Miamies of Kansas, proceeds of lands		550 00				
Osages, proceeds of trust lands		200,000 00				
Pottawatomies, proceeds of lands		137,785 32				
Stockbridges, proceeds of lands		105,516 31				
		4,022,170 35				
Deduct repayments to appropriations in excess of expenditures		9,716 92				
Total Apparent Expenses		4,012,453 43				\$4,012,453 43
Deduct from "Fulfilling treaties," (proceeds of lands,) the amount received and covered into the Treasury as revenue from sales of Indian trust lands		243,671 66				243,671 66
Total Actual Expenses, Fulfilling Treaties		3,768,781 77				3,768,781 77
<i>Trust-Fund Interest Due—</i>						
Cherokee asylum fund		\$4,509 71				
Cherokee national fund		57,491 93				
Cherokee school fund		32,431 15				
Cherokee orphan fund		16,057 26				
Chickasaw national fund		78,771 49				
Chippewa and Christian Indians		2,555 20				
Choctaw general fund		27,202 00				
Choctaw school fund		2,555 16				
Creek orphans		4,445 72				
Delaware general fund		48,353 00				
Delaware school fund		264 49				
Iowas		10,999 50				
Kaskaskias, Peorias, Weas, and Piankeshaws		5,598 97				
Kaskaskias, Peorias, Weas, and Piankeshaws, school fund		3,129 00				
Kickapoos, general fund		9,213 34				
Menomonees		7,618 66				
Osage schools		756 60				
Ottawas of Blanchard's Fork and Roche de Bœuf		1,460 35				
Pottawatomies, education		3,000 00				
Pottawatomies, general fund		3,225 00				
Pottawatomies, mills		981 06				
Sacs and Foxes of th Missouri		1,732 55				
Sacs and Foxes of the Mississippi		4,638 31				
Senecas		2,283 83				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Trust-fund Interest Due—</i>						
Senecas and Shawnees.....		\$963 23				
Shawnees.....		520 82				
Contingencies, trust funds.....		1,800 00				
Interest due Cherokee Indians on lands sold to Osages.....		21,692 79				
Interest due Osage Indians on avails of diminished reserve lands in Kansas, 1873 and prior years.....		32,704 12				
Interest due Tabequache, Muache, Capote, Weemi- nuche, Yampa, Grand River, and Uintah bands of Utes.....		24,490 59				
<i>Proceeds of Sale of Trust-fund Bonds—</i>						
Chickasaw national.....		100,000 00				
Kickapoos.....		4,267 95				
Total Apparent Expenses.....		515,713 78				\$515,713 78
Deduct from "Trust funds" the amounts received and covered into the Treasury as revenues from—						
Interest on stocks, (trust funds).....		\$239,312 48				
Stocks redeemed, (trust funds).....		122,881 03				
		362,193 51				362,193 51
Total Actual Expenses, Trust Funds.....		153,520 27				153,520 27
<i>Incidental Expenses, Indian Service in—</i>						
Arizona.....		\$111,777 45				
California.....		83,807 23				
Colorado.....		5,495 27				
Dakota.....		23,215 96				
Idaho.....		10,163 14				
Montana.....		43,291 10				
Nevada.....		27,326 07				
New Mexico.....		68,553 27				
Oregon.....		83,384 56				
Oregon and Washington.....		8,277 47				
Utah.....		33,976 23				
Washington.....		23,706 57				
Wyoming.....		5,797 83				
Total Incidental Expenses.....		528,772 15				\$528,772 15
<i>General and Miscellaneous Expenses—</i>						
Contingencies, Indian department.....		\$31,717 24				
Civilization of Indians.....		1,480 70				
Civilization fund.....		13,616 12				
Civilization and subsistence of Indians on the Malheur reservation.....		49,631 62				
Civilization and subsistence of Indians of Central superintendency.....		10,000 00				
Presents and provisions to Indians.....		3,529 00				
Buildings at agencies, and repairs.....			\$6,601 99			
Expenses of Indian commissioners.....		11,176 35				
Expenses of Indian delegations visiting Washing- ton.....		6,378 57				
Expenses of a general council of Indians in the Indian Territory.....		7,000 00				
Support of schools not otherwise provided for.....		31,933 40				
Payment to Flatheads removed to Jocko reserva- tion, Montana, reimbursable.....		5,000 00				
Payment to North Carolina Cherokees.....		50,874 96				
Pay and expenses of commissioners to appraise Round Valley Indian reservation, in California.....		585 31				
School-buildings for Ottoes and Missourias, in Ne- braska, reimbursable.....			13,000 00			
Support of schools in Central superintendency.....		10,000 00				
Colonizing and supporting the Wichitas and other affiliated bands.....		51,272 69				
Collecting and subsisting the Apaches of Arizona and New Mexico.....		1,257,554 03				
Collecting and subsisting roving bands of Kicka- poo and other Indians on border of Texas and Mexico.....		24,992 19				
Removal of stray bands of Winnebagoes and Pot- tawatomies in Wisconsin.....		894 23				
Removal of Winnebago Indians of Wisconsin to Indian Territory.....		3,842 65				
Removal and settlement of bands of the Chippe- was of Lake Superior, reimbursable.....		10,533 73				
Settlement, subsistence, and support of Shoshones, Bannocks, and other bands in Idaho and south- eastern Oregon.....		23,556 77				
Subsistence of the Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas.....		381,859 60				

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>General and Miscellaneous Expenses—Continued.</i>						
Subsistence and civilization of the Arickarees, Gros Ventres, and Mandans		\$105,444 73				
Subsistence and clothing of Sisseton, Wahpeton, Medawakanton, and Wahpakoota Sioux		407 59				
Subsisting the Sioux Indians on Milk River reservation		1,508 10				
Support and civilization of the Teton Sioux		50,720 25				
Support of Chippewas of Lake Superior		2,000 00				
Support of the Ottos and Missourias, reimbursable		12,000 00				
Support and civilization of the Sioux at Fort Peck agency		135,488 82				
Support, education, and civilization of captive Indians		18,681 00				
Subsistence of Navajoe Indians		42,364 71				
Subsistence of Kansas Indians, reimbursable		50,062 01				
Subsisting the Sioux Indians at the Red Cloud and Whetstone agencies		313,010 52				
Settlement, subsistence, and support of Modocs now residing within the Indian Territory		15,814 00				
Settlement and subsistence of Otter-Tail Pillagers on White Earth reservation, Minnesota		15,000 00				
Settlement of Pembina band of Chippewas on White Earth reservation, Minnesota		5,000 00				
Breadstuffs for Cherokee nation		200,000 00				
Transportation of North Carolina Cherokees		2,125 00				
Claims of settlers on Round Valley reservation in California. (Restored to Public Lands)		15,864 78				
Proceeds of Sioux reservations in Minnesota and Dakota		63,926 56				
Survey of exterior boundaries of Indian reservations		1,540 00				
Survey of Indian reservations		23,309 97				
Payment to L'Anse and Vieux de Sert Chippewas for lands		3,034 22				
Appraisal and sale of diminished reserved lands of the Kaw Indians in Kansas, (reimbursable)		25,287 86				
Insurance, transportation, and delivery of annuities and provisions to Indians in Minnesota and Michigan		4,220 18				
Wagon-road from Northern Pacific Railway to agency for Chippewa Indians of the Mississippi			\$10,000 00			
Commission to James W. Terrell on payments to North Carolina Cherokees					\$1,439 36	
Maintenance and education of Helen and Heloise Lincoln					250 00	
Relief of Henry A. Webster, V. B. McCollum, and A. Colby, of Washington Territory, pre-emptors on the Makah Indian reservation					23,257 44	
Relief of Siloma Deck					1,095 37	
Relief of the heirs of Mary B. Beltfield, of Virginia					173 33	
		3,094,239 46				
Deduct repayments to appropriations in excess of expenditures		8,930 72				
Total Actual Expenses, General and Miscellaneous Indian Affairs		3,085,308 74	29,601 99		26,215 50	\$3,141,126 23
Total Apparent Expenses, Indian Affairs	\$181,275 95	8,147,736 71	29,601 99		26,215 50	8,384,830 15
Total Actual Expenses, Indian Affairs	181,275 95	7,541,871 54	29,601 99		26,215 50	7,778,964 98
Total Apparent Expenses, Interior Department	2,017,184 47	8,772,979 29	700,726 48	\$1,810,922 67	29,509,595 63	42,811,408 54
Total Actual Expenses, Interior Department	1,216,407 95	7,876,570 79	700,726 48	1,558,304 27	29,509,595 63	40,861,605 12
POST OFFICE DEPARTMENT.						
<i>Salaries—</i>						
Post Office Department	\$446,612 39					
Contingent expenses		\$66,100 00				
Postage		664,775 50				
Purchase of law books				\$2,000 00		
Indemnity to Dempsey & O'Toole for loss in annulment of contract					\$29,433 89	
International Exhibition, Post Office Department					100 00	
Payment to Mrs. Nancy Day					792 46	
Payment to D. B. Allen & Co., for carrying the mails					21,543 00	

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Salaries—Continued.</i>						
Relief of Peter S. Patton					\$420 00	
Relief of E. Small and J. Tate & Co.					110 00	
Total Apparent Expenses	\$446,612 39	\$730,875 50		\$2,000 00	52,399 35	\$1,231,887 24
Deduct amount received and covered into the Treasury as proceeds of Government property ..		200 00				200 00
Total Actual Expenses, Post Office Department proper	446,612 39	730,675 50		2,000 00	52,399 35	1,231,687 24
<i>Postal Service—</i>						
Deficiency in postal revenues		\$6,562,216 30				
Steamship service between San Francisco, Japan, and China		500,000 00				
Steamship service between United States and Brazil		150,000 00				
		7,212,216 30				
Deduct repayment to appropriations in excess of expenditures		570 20				
Total Postal Service		7,211,646 10				\$7,211,646 10
Total Actual Expenses, Post Office Department.	\$446,612 39	7,942,321 60		\$2,000 00	\$52,399 35	8,443,333 34
DEPARTMENT OF AGRICULTURE.						
<i>Salaries—</i>						
Department of Agriculture	\$77,059 12					
Collecting agricultural statistics	12,000 00					
Purchase and distribution of valuable seeds		\$66,204 89				
Museum		2,216 45				
Furniture, cases, and repairs		3,602 40				
Library		1,059 10				
Laboratory		1,390 49				
Experimental garden		7,856 83				
Contingent expenses		10,915 91				
Improvement of grounds			\$17,974 91			
Publishing report of Commissioner of Agriculture.				\$46,700 00		
Postage		42,959 09				
Special distribution of seeds to sufferers from grasshopper ravages					\$30,000 00	
International Exhibition, Department of Agricul- ture					3,000 00	
Total Department of Agriculture	89,059 12	136,205 16	17,974 91	46,700 00	33,000 00	\$322,939 19
DEPARTMENT OF JUSTICE.						
<i>Salaries—</i>						
Department of Justice	\$107,880 75					
Rent of building		\$13,999 96				
Contingent expenses		15,976 23				
Salaries and expenses of commissioners to codify the laws	6,475 03					
Salary, warden of jail, District of Columbia	2,000 00					
Defending claims under convention with Mexico ..		500 00				
Prosecution of crimes		28,273 58				
Defending suits and claims for seizure of captured and abandoned property					\$26,124 00	
Prosecution and collection of claims					2,460 00	
Current expenses, Reform School		11,060 67				
Buildings and grounds, Reform School			\$11,750 00			
Punishing violation of intercourse acts and frauds ..		10,703 92				
Postage		3,770 11				
Penitentiary building at Deer Lodge, Montana			6,000 00			
Penitentiary building at Steilacoom, Wash. Ter ..			6,136 83			
Penitentiary building in Wyoming Territory			2,914 30			
Publishing opinions of Attorney General				\$1,000 00		
Costs adjudged against Eastern band of Cherokees ..					9,444 25	
Payment to administrator of A. F. Reynolds					1,282 35	
Payment to John G. Hosmer					338 00	
			26,801 13			
Deduct repayment to appropriations in excess of expenditures			32 71			
Total Apparent Expenses	116,355 78	84,284 47	26,768 42	1,000 00	39,648 60	\$268,057 27
Deduct amount received and covered into the Treasury as proceeds of Government property ..		686 00				686 00
Total Actual Expenses, Department of Justice.	116,355 78	83,598 47	26,768 42	1,000 00	39,648 60	267,371 27

DISBURSEMENTS.

	Salaries.	Ordinary ex- penses.	Public works.	Miscellaneous.	Unusual and ex- traordinary.	Total.
<i>Metropolitan Police—</i>						
Salaries and expenses		\$208,006 62				\$208,006 62
Total Apparent Expenses, Executive	\$28,617,927 29	67,353,043 60	\$22,292,497 43	\$3,143,137 32	\$144,366,194 34	265,772,799 98
Total Actual Expenses, Executive	26,796,541 13	59,481,943 09	22,283,569 82	2,890,518 92	142,832,159 19	254,284,732 15
JUDICIAL.						
<i>Salaries—</i>						
Justices, &c., Supreme Court	\$98,000 00					
Circuit judges	54,000 00					
District judges	178,780 33					
District attorneys	18,994 60					
District marshals	11,852 70					
Justices and judges of the supreme court, District of Columbia	20,500 00					
Expenses of United States courts		\$3,322,182 27				
Support of convicts		8,874 77				
Total Apparent Expenses	382,127 63	3,331,057 04				\$3,713,184 67
Deduct from expenses of United States courts \$52,314 91, received from judicial officers, and covered into the Treasury as an excess of emol- ument fees, and \$82,240 92, recovered from par- ties as costs, &c., in suits, and covered into the Treasury as fines, penalties, and forfeitures		140,555 83				140,555 83
Total Actual Expenses, Judicial	382,127 63	3,190,501 21				3,572,628 84
Grand Total Apparent Expenses	31,491,273 53	73,205,312 57	\$22,296,388 17	\$3,171,837 32	\$144,458,581 25	274,623,392 84
Grand Total Actual Expenses	29,646,648 82	65,177,211 77	22,287,460 56	2,919,218 92	142,924,546 10	262,955,086 17

RECAPITULATION OF DISBURSEMENTS.

<i>Legislative—</i>						
Apparent expenses	\$2,491,218 61	\$2,521,211 93	\$3,890 74	\$28,700 00	\$92,386 91	\$5,137,408 19
Actual expenses	2,467,980 06	2,504,767 47	3,890 74	28,700 00	92,386 91	5,097,725 18
<i>Executive proper—</i>						
Apparent expenses	71,800 00	7,365 30				79,165 30
Actual expenses	71,800 00	7,365 30				79,165 30
<i>State Department—</i>						
Apparent expenses	948,786 65	397,444 36			2,054,478 53	3,400,709 54
Actual expenses	483,831 97	248,657 83			2,054,478 53	2,786,968 33
<i>Treasury Department—</i>						
Apparent expenses	5,431,280 79	20,208,146 38	11,342,055 44	801,874 70	108,015,536 06	145,798,893 37
Actual expenses	4,875,625 83	14,590,035 35	11,342,055 44	801,874 70	106,481,500 91	138,091,092 23
<i>War Department—</i>						
Apparent expenses	12,091,980 50	18,194,690 73	8,550,387 69	475,639 95	3,447,237 13	42,759,936 00
Actual expenses	12,091,980 50	17,147,994 05	8,541,460 08	475,639 95	3,447,237 13	41,704,311 71
<i>Navy Department—</i>						
Apparent expenses	7,404,867 59	11,401,399 69	1,654,584 49	5,000 00	1,214,299 04	21,680,150 81
Actual expenses	7,404,867 59	11,241,187 92	1,654,584 49	5,000 00	1,214,299 04	21,519,939 04
<i>Interior Department—</i>						
Apparent expenses	2,017,184 47	8,772,979 29	700,726 48	1,810,922 67	29,509,595 63	42,811,408 54
Actual expenses	1,216,407 95	7,876,570 79	700,726 48	1,558,304 27	29,509,595 63	40,861,605 12
<i>Post Office Department—</i>						
Apparent expenses	446,612 39	7,942,521 60		2,000 00	52,399 35	8,443,533 34
Actual expenses	446,612 39	7,942,321 60		2,000 00	52,399 35	8,443,333 34
<i>Agricultural Department—</i>						
Apparent expenses	89,059 12	136,205 16	17,974 91	46,700 00	33,000 00	322,939 19
Actual expenses	89,059 12	136,205 16	17,974 91	46,700 00	33,000 00	322,939 19
<i>Department of Justice—</i>						
Apparent expenses	116,355 78	292,291 09	26,768 42	1,000 00	39,648 60	476,063 89
Actual expenses	116,355 78	291,605 09	26,768 42	1,000 00	39,648 60	475,377 89
<i>Judiciary—</i>						
Apparent expenses	382,127 63	3,331,057 04				3,713,184 67
Actual expenses	382,127 63	3,190,501 21				3,572,628 84
Total Apparent Expenses	31,491,273 53	73,205,312 57	22,296,388 17	3,171,837 32	144,458,581 25	274,623,392 84
Total Actual Expenses	29,646,648 82	65,177,211 77	22,287,460 56	2,919,218 92	142,924,546 10	262,955,086 17

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Y.

TABULAR STATEMENTS

OF

DISBURSEMENTS

MADE FROM

THE APPROPRIATIONS FOR THE INDIAN DEPARTMENT

FOR THE

FISCAL YEAR ENDING JUNE 30, 1875,

AND OF

THE SALARIES AND INCIDENTAL EXPENSES PAID AT EACH AGENCY
IN THE INDIAN SERVICE DURING SAID PERIOD,

SHOWING

THE APPROPRIATIONS FROM WHICH PAID AND THE NUMBER OF INDIANS
AT EACH AGENCY.



TABLE OF STATISTICS

DISTRIBUTION

THE APPROPRIATIONS FOR THE INDIAN DEPARTMENT

FINANCIAL YEAR ENDING JUNE 30, 1873.

THE SALARIES AND INCIDENTAL EXPENSES PAID TO EACH AGENT
IN THE INDIAN SERVICE DURING SAID PERIOD

THE APPROPRIATIONS FROM WHICH PAID AND THE NUMBER OF INDIANS
IN EACH AGENT

WASHINGTON

GOVERNMENT PRINTING OFFICE
1873

DEPARTMENT OF THE INTERIOR, OFFICE OF INDIAN AFFAIRS,
Washington, D. C., October 28, 1875.

SIR: In accordance with the provisions of the 8th section of an act entitled "An act making appropriations for the current and contingent expenses of the Indian Department, and for fulfilling treaty-stipulations with various Indian tribes, for the year ending June 30, 1876, and for other purposes," approved March 3, 1875, I have the honor to present herewith tabular statements of disbursements made from the appropriations for the Indian Department for the fiscal year ending June 30, 1875, and of the salaries and incidental expenses paid at each agency in the Indian service during said period, showing the appropriations from which paid, and the number of Indians at each agency.

Very respectfully, your obedient servant,

EDW. P. SMITH, *Commissioner.*

The Hon. SECRETARY OF THE INTERIOR.

STATEMENT OF DISBURSEMENTS MADE UP TO NOVEMBER 1, 1875, FROM THE APPROPRIATIONS

Hheads of appropriation.	Amount appropriated.	OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.											
		Pay of superintendents and agents.	Pay of special agents.	Pay of subagents.	Pay of interpreters.	Pay of clerks to superintendents and agents.	Buildings at agencies and repairs.	Vaccination of Indians.	Medicines and medical supplies.	Annuity-goods.	Subsistence-supplies.	Agricultural and miscellaneous supplies.	Expenses of transportation and storage.
Fulfilling treaty with Apaches, Kiowas, and Comanches, 1875	\$67,700 00						\$150 00		\$746 96	\$26,972 96	\$11,846 52	\$141 44	\$6,809 99
Fulfilling treaty with Assinaboines, 1875	30,000 00						835 46		230 71	3,750 43	20,541 28	1,058 90	152 74
Fulfilling treaty with Blackfeet, Bloods, and Piegians, 1875	50,000 00								190 09	7,334 03	17,653 64	4,111 44	4,027 36
Fulfilling treaty with Calapooias, Molallas, and Clackamas of Willamette Valley, 1875	5,500 00								367 54		1,220 79	2,042 44	
Fulfilling treaty with Cheyennes and Arapahoes, 1875	47,200 00								1,140 95	25,547 59			4,154 58
Fulfilling treaty with Chickasaws, 1875	3,000 00												
Fulfilling treaty with Chippewas, (Boisé Fort band,) 1875	15,100 00									5,825 87		534 69	
Fulfilling treaty with Chippewas of Lake Superior, 1875	30,220 00									7,076 41		4,966 78	1,048 59
Fulfilling treaty with Chippewas of the Mississippi, 1875	45,902 01									3,303 96	907 75	3,163 35	606 26
Fulfilling treaty with Chippewas, (Pillager and Lake Winnebagoishish bands,) 1875	25,666 66								476 25	6,999 12	1,375 27	1,051 85	258 67
Fulfilling treaty with Chippewas of Red Lake and Pembina tribe of Chippewas, 1875	35,400 00									8,824 79		852 30	565 46
Fulfilling treaty with Choctaws, 1875	30,032 89												
Fulfilling treaty with confederated tribes and bands in Middle Oregon, 1875	13,100 00								179 77	857 79	432 87	2,442 02	
Fulfilling treaty with Creeks, 1875	70,968 40												
Fulfilling treaty with Crows, 1875	168,873 00								368 41	24,950 87	98,364 23	3,849 67	2,483 34
Fulfilling treaty with Delawares, 1875	56,368 99												
Fulfilling treaty with D'Wamish and other allied tribes in Washington, 1875	13,700 00						300 00		255 00	951 90	1,030 97	2,521 03	
Fulfilling treaty with Flatheads and other confederated tribes, 1875	18,500 00						227 50		1,023 72		4,436 74	1,124 00	154 30
Fulfilling treaty with Gros Ventres, 1875	35,000 00						835 46		204 42	3,716 28	25,482 36	1,058 90	152 73
Fulfilling treaty with Iowas, 1875	2,875 00										84 54	621 49	
Fulfilling treaty with Kansas, 1875	10,000 00												
Fulfilling treaty with Kickapoos, 1875	97,162 15						51 00		21 60		5,644 79	55 17	515 07
Fulfilling treaty with Klamaths and Modocs, 1875	17,100 00						684 89		444 97	1,937 92	2,052 69	1,756 93	277 77
Fulfilling treaty with Makahs, 1875	8,600 00						122 30			69 60	154 36	958 59	
Fulfilling treaty with Menomonees, 1875	16,179 06												
Fulfilling treaty with Miamies of Eel River, 1875	1,100 00												
Fulfilling treaty with Miamies of Indiana, 1875	11,062 89												
Fulfilling treaty with Miamies of Kansas, 1875	11,540 00												
Fulfilling treaty with Moels, 1875	3,000 00												
Fulfilling treaty with Mixed Shoshones, Bannocks, and Sheepeaters, 1875	20,000 00		\$750 00				1,210 00				8,961 30	2,608 90	
Fulfilling treaty with Navajoes, 1875	80,675 00								217 57	18,359 12	45,447 71	1,339 21	4,748 19
Fulfilling treaty with Nez Percés, 1875	27,800 00						1,296 97		180 84	2,717 12	282 88	2,260 76	
Fulfilling treaty with Nisqually, Puyallup, and other tribes and bands, 1875	9,200 00									415 67	192 56	655 34	
Fulfilling treaty with Northern Cheyennes and Arapahoes, 1875	83,700 00									13,374 33	52,059 02		11,123 40
Fulfilling treaty with Omahas, 1875	25,100 00											5,530 47	24 00
Fulfilling treaty with Osages, 1875	18,456 00												
Fulfilling treaty with Ottos and Missourias, 1875	9,000 00										68 63	1,495 82	23 09
Fulfilling treaty with Pawnees, 1875	56,900 00									4,739 60	7,096 07	5,511 97	657 35
Fulfilling treaty with Poncas, 1875	18,000 00									3,669 10	271 00	3,538 25	445 36
Fulfilling treaty with Pottawatomies, 1875	25,647 65										1,243 16	247 23	
Fulfilling treaty with Pottawatomies of Huron, 1875	400 00												
Fulfilling treaty with Quapaws, 1875	2,660 00												
Fulfilling treaty with Quinaielts and Quillehutes, 1875	8,100 00									492 44	311 75	898 81	
Fulfilling treaty with River Crows, 1875	30,000 00								232 71		5,679 80	2,965 34	
Fulfilling treaty with Rogue Rivers, 1875	3,000 00									413 16	351 62	1,654 77	
Fulfilling treaty with Sacs and Foxes of the Mississippi, 1875	51,000 00												

* Removal of

ATIONS FOR THE INDIAN DEPARTMENT FOR THE FISCAL YEAR ENDING JUNE 30, 1875.

OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.

Inspection of annuity goods and supplies.	Advertising-expenses.	Payments of annuities in money.	Pay of regular employes at agencies.	Pay of temporary employes at agencies.	Support of schools.	To promote civilization among Indians generally.	Traveling-expenses of superintendents and agents.	Traveling-expenses of special agents.	Incidental expenses of agencies.	Expenses of annual council of Indians in the Indian Territory.	Presents to Indians.	Pay and expenses of Indian inspectors.	Agricultural improvements.	Miscellaneous.	Not accounted for by agents.	Total amount expended from each appropriation.	Balance unexpended.
\$125 00			\$9,656 36	\$3,203 06	\$650 00	\$1,615 30	\$114 20		\$807 50					\$317 69	\$3,306 57	\$63,156 98	\$1,236 45
19 13			2,515 72				75 00		663 03						157 61	29,842 39	
70 00	\$500 57		3,479 18	2,385 94	1,161 19		40 50		2,019 65						1,271 21	42,973 59	5,755 20
				1,869 23												5,500 00	
140 00			6,399 09	675 75	408 93	233 08			225 90					327 00	7,395 79	39,252 87	551 34
		\$3,000 00														3,000 00	
		3,500 00	450 00	915 53	263 53										3,610 38	11,489 62	
		2,087 00	2,200 04	1,033 31	1,603 25		351 12				\$89 85				9,763 65	20,456 35	
		4,231 50	353 42		486 82								\$1,098 33		31,554 58	14,151 39	196 04
		8,101 66	2,057 91	1,105 86	1,606 14									19 86	2,565 00	23,052 59	49 07
9 10		10,000 00	2,920 00	1,233 49											10,994 86	24,405 14	
		30,032 89														30,032 89	
		375 00	5,250 00	33 33	1,187 55										2,175 00	10,758 33	166 67
210 00	260 25	70,968 40	4,608 90	3,091 10	522 25											70,968 40	
		54,549 49												303 18	6,391 27	139,012 20	23,469 53
																54,549 49	1,819 50
			4,400 00	291 68	3,000 00									20 00	929 42	12,770 58	
		1,250 00	6,495 38		2,100 00										1,188 36	16,811 64	500 00
18 50			2,515 71				75 00		663 03						157 61	34,752 39	90 00
			1,571 10		326 10										95 27	2,779 73	
		8,000 00			713 36										1,286 64	8,713 36	
			906 38	589 50	781 50	598 77	121 38		155 00					26,861 13	60,860 86	36,301 29	
			8,308 34	222 79	906 78				36 66					180 00	290 26	16,809 74	
			4,104 36	222 01	2,725 95										242 83	8,357 17	
		13,482 55												2,696 51		16,179 06	
															1,100 00		
		7,721 36												1,000 00	11,062 89		
					3,000 00										2,818 64	8,721 36	
																3,000 00	
			800 00	431 90				\$128 50	109 40					5,000 00		20,000 00	
			1,537 08	957 88	8,068 24											80,675 00	
		1,500 00	10,000 00	4,978 83	3,408 92				35 88						1,107 45	26,662 20	30 35
			4,464 19	267 75	2,070 28											8,065 79	1,134 21
410 85																76,967 60	6,732 40
		6,500 00	4,713 87	3,025 83					27 05					1,034 71	4,244 07	20,855 93	
		7,500 00													15,956 00	7,500 00	
		1,500 00	1,362 97	1,872 95	800 00				82 01					396 64	1,336 81	61 08	8,938 92
		15,000 00	6,469 88	4,936 63	8,656 65				340 90				1,425 49	1,236 21	735 00	56,070 75	94 25
		2,000 00	270 00	1,411 75		454 00								51 00	5,889 54	12,110 46	
		19,638 66	1,185 00	47 50	1,290 87				185 13					1,091 64	718 46	24,929 19	
		400 00														400 00	
			690 00		1,575 74										394 26	2,265 74	
			3,949 90	42 50	2,404 60											8,100 00	
				545 77	950 00		327 27		134 76						8,497 28	10,835 55	10,667 17
				98 50	233 03										248 92	2,751 08	
		50,102 67	200 00						148 25					75 00	474 08	50,525 92	

Kickapoos.

Heds of appropriations.

Heads of appropriations.	Amount appropriated.	OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.											
		Pay of superintendents and agents.	Pay of special agents.	Pay of subagents.	Pay of interpreters.	Pay of clerks to superintendents and agents.	Buildings at agencies and repairs.	Vaccination of Indians.	Medicines and medical supplies.	Annuity-goods.	Subsistence-supplies.	Agricultural and miscellaneous supplies.	Expenses of transportation and storage.
Fulfilling treaty with Sacs and Foxes of the Missouri, 1875.....	\$9,070 00												
Fulfilling treaty with Seminoles, 1875.....	68,500 00												
Fulfilling treaty with Senecas, 1875.....	2,660 00												
Fulfilling treaty with Senecas of New York, 1875.....	11,902 50												
Fulfilling treaty with Senecas, Shawnees, Quapaws, Peorias, Kaskaskias, Ottawas, Wyandotts, and others, 1875.....	11,123 29												
Fulfilling treaty with Senecas and Shawnees, 1875.....	2,060 00												
Fulfilling treaty with Shawnees, 1875.....	5,000 00												
Fulfilling treaty with Shoshones, 1875.....	21,000 00									\$6,020 22	\$1,891 75	\$2,489 90	
Fulfilling treaty with Shoshones and Bannocks, 1875.....	78,111 00								\$264 50	\$19,417 45	34,027 35	775 71	3,529 16
Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1874.....	1,639,800 00			\$1,066 66			\$1,196 60		2,311 72	150,871 01	1,096,830 25	26,209 39	165,842 69
Fulfilling treaty with Sioux, (Yankton tribe,) 1875.....	41,200 00								651 76	15,112 41		5,227 90	1,453 72
Fulfilling treaty with Sisseton and Wabpeton and Santee-Sioux of Lake Traverse and Devil's Lake, 1875.....	80,000 00						224 57		391 04	19,800 34	26,808 91	4,973 42	2,054 45
Fulfilling treaty with Six Nations of New York, 1875.....	4,500 00								330 82	3,197 74			
Fulfilling treaty with S'Klallams, 1875.....	10,000 00									604 74	525 65	1,769 87	
Fulfilling treaty with Snakes, (Wall-pah-pee tribe,) 1875.....	1,200 00										1,169 90	30 10	
Fulfilling treaty with Tabeguache, M'uche, Capote, Weeminuche, Yampa, Grand River, and Uintah bands of Utes, 1875.....	63,815 13				\$66 00				214 95	7,454 30	12,446 94	4,413 64	7,799 21
Fulfilling treaty with Umpquas and Calapooias of Umpqua Valley, Oregon, 1875.....	2,450 00										213 27	46 52	
Fulfilling treaty with Utahs, (Tabeguache band,) 1875.....	720 00												
Fulfilling treaty with Walla-Walla, Cayuse, and Umatilla tribes, 1875.....	17,500 00						1,934 79			1,455 92	277 72	2,449 36	
Fulfilling treaty with Winnebagoes, 1875.....	144,431 84						6,569 73		380 72	3,267 13	6,405 86	22,799 75	964 15
Fulfilling treaty with Yakamas, 1875.....	24,400 00						309 00		483 31	419 10	773 46	5,282 77	850 50
Breadstuffs for Cherokee Nation, 1875.....	200,000 00												
Insurance, transportation, &c., of annuities, &c., to Indians in Minnesota and Michigan, 1875.....	4,000 00												1,413 95
Incidental expenses Indian service in Arizona, 1875.....	65,000 00						113 86		572 97		13,654 96	3,544 47	1,105 54
Incidental expenses Indian service in California, 1875.....	70,000 00		\$339 01						693 91	18,649 57	12,142 89	9,738 88	3,720 03
Incidental expenses Indian service in Colorado, 1875.....	5,000 00										912 53	252 96	202 33
Incidental expenses Indian service in Dakota, 1875.....	20,000 00		120 00		180 00		260 94		59 55		275 40	1,537 46	710 60
Incidental expenses Indian service in Idaho, 1875.....	10,000 00						22 71		390 61		664 46	2,172 90	112 16
Incidental expenses Indian service in Montana, 1875.....	20,000 00		750 00				16 50		127 73		994 90	3,610 54	116 75
Incidental expenses Indian service in Nevada, 1875.....	15,000 00								22 52		3,499 36	1,713 86	116 33
Incidental expenses Indian service in New Mexico, 1875.....	40,000 00								84 60		13,004 23	4,916 91	317 07
Incidental expenses Indian service in Oregon, 1875.....	40,000 00		1,000 00		50 00		14 16		342 14	2,554 87	4,032 96	6,150 91	3,020 93
Incidental expenses Indian service in Utah, 1875.....	30,000 00								64 30	4,084 39	4,784 88	1,786 64	702 62
Incidental expenses Indian service in Washington, 1875.....	25,000 00				27 75		24 42		626 82		734 31	4,444 03	2,626 68
Incidental expenses Indian service in Wyoming, 1875.....	5,000 00											66 74	209 07
Civilization and subsistence of Indians on the Malheur reservation, 1875.....	35,000 00								118 46	825 41	21,873 68	5,011 36	
Collecting and subsisting Apaches of Arizona and New Mexico, 1875.....	620,000 00						3,221 35		3,625 92	11,066 27	438,737 63	22,431 82	15,632 90
Colonizing and supporting the Wichitas and other affiliated bands, 1875.....	50,000 00						3,190 65		714 83	10,372 82	9,019 73	875 32	2,438 37
Payment to Flatheads removed to Jocko reservation, Montana, 1875.....	5,000 00												
Settlement, subsistence, and support of Shoshones and Bannocks and other bands in Idaho and Southeastern Oregon, 1875.....	20,000 00								111 29	3,260 94	9,090 95	951 58	973 07
Settlement, subsistence, and support of Modocs now residing within Indian Territory, 1875.....	10,000 00										1,819 80	256 25	55 50
Subsistence of Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas, 1875.....	300,000 00										261,500 76	39 15	11,763 43
Subsisting Sioux Indians at the Red Cloud and Whetstone agencies, 1875.....	120,000 00										120,000 00		
Subsistence and civilization of Arickarees, Gros Ventres, and Mandans, 1875.....	85,000 00								425 43	9,740 71	37,500 61	12,253 48	4,243 52
Support and civilization of the Sioux at Fort Peck agency, 1875.....	150,000 00								724 55	26,213 21	86,083 14	19,764 43	4,594 12
Subsistence of Navajoe Indians, 1875.....	17,364 71										17,364 71		
Civilization and subsistence of Indians of Central Superintendency, 1875.....	10,000 00										137 50		
Support of schools in Central Superintendency, 1875.....	10,000 00						2,000 00						
Settlement and subsistence of Otter Tail Pillagers on White Earth reservation, Minnesota, 1875.....	15,000 00										435 02	589 21	
Settlement of Pembina band of Chippewas on White Earth reservation, Minnesota, 1875.....	15,000 00										700 00	563 20	57 25
Subsistence of Kansas Indians, 1875.....	40,000 00						2,420 00		198 07		8,373 22		196 51
Support of Ottoes and Missourias, 1875.....	12,000 00						538 00				4,116 07	682 74	8 00
School-buildings for Ottoes and Missourias in Nebraska, 1875.....	13,000 00												
Support of Chippewas of Lake Superior, 1875.....	2,000 00											1,129 16	
Wagon-road from Northern Pacific Railway to agency for Chippewa Indians of the Mississippi, 1875.....	10,000 00										801 26	342 75	379 82
School-building for Sac and Fox agency, Iowa, 1875.....	1,200 00												

DISBURSEMENTS MADE FROM APPROPRIATIONS FOR INDIAN DEPARTMENT.

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for the Indian Department for the fiscal year ending June 30, 1875—Continued.

OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.																Total amount expended from each appropriation.	Balance unexpended.
Inspection of annuity-goods and supplies.	Advertising-expenses.	Payments of annuities in money.	Pay of regular employes at agencies.	Pay of temporary employes at agencies.	Support of schools.	To promote civilization among Indians generally.	Traveling-expenses of superintendents and agents.	Traveling-expenses of special agents.	Incidental expenses of agencies.	Expenses of annual council of Indians in the Indian Territory.	Presents to Indians.	Pay and expenses of Indian inspectors.	Agricultural improvements.	Miscellaneous.	Not accounted for by agents.	Total amount expended from each appropriation.	Balance unexpended.
		\$7,870 00													\$1,200 00	\$7,870 00	
		28,500 00													40,000 00	28,500 00	
		1,000 00	\$720 00												940 00	1,720 00	
															11,902 50		
		10,000 00	550 00											\$20 00	553 29	10,570 00	
		1,000 00	475 00												585 00	1,475 00	
		5,000 00														5,000 00	
			1,900 00	\$133 67			\$151 65		\$81 60						1,036 73	12,668 79	\$7,294 48
			8,356 42	2,125 00					405 75		\$500 00				318 54	69,401 34	8,391 12
\$1,612 84	\$5,335 98		33,359 09	37,799 52	\$188 33	\$3,892 77			712 67				\$1,745 00	7,841 48	67,732 89	1,536,806 00	35,261 11
		7,560 92	3,000 00	7,639 05									71 75	482 46		41,200 00	
	65 75		9,597 47	5,601 89	9,406 61	217 50	144 25							803 80		80,000 00	
			3,527 17	789 69	2,782 88										200 00	3,528 56	771 44
																10,000 00	
																1,200 00	
70 00	66 50		8,843 08	1,083 25			118 74		16 00		421 40				725 52	43,014 01	20,075 60
				115 00	1,383 63										691 52	1,758 48	
			720 00													720 00	
		1,500 00	8,100 00	780 00	981 02										21 19	17,478 81	
		15,758 98	4,800 10	6,437 22	9,211 60	7,208 55			1,364 23				3,144 08	1,250 59	20,791 12	89,562 69	34,078 03
		500 00	9,489 88	1,929 99	3,175 87								1,195 09			24,400 00	
		200,000 00														200,000 00	
	538 11		416 37				171 95								1,459 62	2,540 38	
			8,646 99	947 64	5,602 40		2,511 45		5,832 65				740 71	2,381 11	17,238 77	45,654 75	2,106 48
			15,404 62	1,041 03	920 42	2,184 30	533 88	\$226 72	25 44					1,642 41	1,370 42	67,263 11	1,366 47
	577 93		334 06				785 36		61 26					451 52	1,399 05	3,577 95	23 00
	553 88		4,407 00	3,606 59	114 00	92 00	1,834 66		2,150 06				47 23	2,616 82	1,285 41	18,566 19	148 40
		800 00	5,457 29				85 13		164 95					20 46	109 33	9,890 67	
	538 11		78 33	3,116 71	997 25	360 52	1,887 51		2,360 96					1,585 51	2,800 52	16,541 29	658 19
			7,450 00	27 77			244 32		233 23					512 69	1,000 00	13,820 08	179 92
	588 13		9,064 45	1,009 67	219 90	490 91	1,507 81		1,564 33					1,822 66	5,188 51	34,590 67	220 82
	53 31		7,102 26	5,543 27	358 67		1,250 66		398 60					1,621 37	3,347 18	33,494 11	3,158 71
	538 11		6,239 59	150 00			785 45		745 49					2,757 50	7,319 53	22,638 97	41 50
			4,328 27	420 07	3,335 05	87 50	1,517 83	141 46	1,695 73				150 00	1,202 28	1,045 27	21,362 20	2,592 53
	573 13		1,723 29	102 50			416 35		943 96					818 8	93 09	4,853 84	53 07
			4,826 12	1,138 18					1,206 79							35,000 00	
	908 27		24,053 15	8,792 39	866 20	6,976 43	910 24		2,450 95				11,684 60	94 50	23,663 67	551,452 62	44,883 71
			9,296 65	1,847 24	4,951 37	1,964 71			1,797 99				2,374 44	1,155 88		50,000 00	
		4,186 06													813 94	4,186 06	
	238 68		2,280 15	26 66	609 33				537 84						1,475 28	18,080 49	444 23
			300 00		1,095 14	535 20			91 70					3,000 00	2,846 41	7,153 59	
	597 85	1,040 98		585 82	731 23		129 45								4,250 75	276,388 67	19,360 58
																120,000 00	
	195 00	872 82	8,544 27	2,599 37	300 00	578 85			251 80				225 59	2,303 61		80,035 06	4,964 94
	282 50	1,193 86	7,797 42	2,932 77												149,616 00	384 00
																17,364 71	
					300 00	794 35									8,768 15	1,231 85	
					1,410 02	890 35			324 09						5,375 54	4,624 46	
					131 34									51 50	13,792 93	1,207 07	
				219 95			141 15							45 50	13,272 95	1,727 05	
		700 00	916 43			3,210 66								808 51	23,176 60	16,823 40	
														785 24	5,869 95	6,130 05	
					1,588 04				462 25						10,949 71	2,050 29	
															870 84	1,129 16	
				4,061 95											4,414 22	5,585 78	
															1,200 00		

DISBURSEMENTS MADE FROM APPROPRIATIONS FOR INDIAN DEPARTMENT.

Statement of disbursements made up to November 1, 1875, from the appropriations

Heads of appropriations.	Amount appropriated.	OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.											
		Pay of superintendents and agents.	Pay of special agents.	Pay of subagents.	Pay of interpreters.	Pay of clerks to superintendents and agents.	Buildings at agencies and repairs.	Vaccination of Indians.	Medicines and medical supplies.	Annuity goods.	Subsistence supplies.	Agricultural and miscellaneous supplies.	Expenses of transportation and storage.
Expenses of Indian commissioners, 1875.....	\$15,000 00												
Interest due Osage Indians on avails of diminished reserve-lands in Kansas, 1875.....	36,037 45												\$3 50
Pay and expenses of commissioners to appraise Round Valley reservation, California, 1875.....	4,000 00												
Expenses of investigating alleged frauds in paying bounties to Indian Home Guards, 1875.....	2,834 15												
Salary of Ouray, head chief of the Ute Nation.....	1,000 00												
Presents to the Sioux of the Red Cloud and Whetstone agencies.....	25,000 00											\$20,600 00	
Payment to the creditors of Upper and Lower bands of Sioux Indians.....	70,000 00												
Buildings at agencies and repairs, 1875.....	10,000 00						\$4,612 44						
Presents and provisions to Indians, 1875.....	5,000 00										\$500 00		
Vaccination of Indians, 1875.....	2,000 00							\$13 10	\$42 00				
Contingencies of trust-fund, 1875.....	1,500 00												
Expenses of general council of Indians in Indian Territory, 1875.....	7,000 00										396 10		
Pay of Indian inspectors, 1875.....	15,000 00												
Traveling-expenses of Indian inspectors, 1875.....	7,500 00												
Pay of clerks for Central Superintendency, 1875.....	3,400 00					\$3,400 00							
Pay of clerks for Northern Superintendency, 1875.....	1,200 00					1,200 00							
Pay of special agents, 1875.....	10,500 00		\$8,026 85										
Pay of superintendents and agents, 1875.....	106,500 00	\$82,880 68											
Pay of interpreters, 1875.....	33,900 00				\$27,784 75								
Contingencies, Indian Department, 1875.....	30,000 00										103 57	2 25	59 88
Expenses of Indian delegations visiting Washington, 1875.....	5,000 00												
Grand total.....	6,131,869 77	82,880 68	10,985 86	\$1,066 66	28,108 50	4,600 00	32,374 30	13 10	20,136 06	\$480,728 42	2,571,938 46	262,316 97	277,991 96

* Includes pay and expenses of special commissioners.

DISBURSEMENTS MADE FROM APPROPRIATIONS FOR INDIAN DEPARTMENT.

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for the Indian Department for the fiscal year ending June 30, 1875—Continued.

OBJECTS AND PURPOSES FOR WHICH THE APPROPRIATIONS HAVE BEEN EXPENDED.															Total amount expended from each appropriation.	Balance unexpended.
Inspection of annuity-goods and supplies.	Advertising-expenses.	Payments of annuities in money.	Pay of regular employes at agencies.	Pay of temporary employes at agencies.	Support of schools.	To promote civilization among Indians generally.	Traveling-expenses of superintendents and agents.	Traveling-expenses of special agents.	Incidental expenses of agencies.	Expenses of annual council of Indians in the Indian Territory.	Presents to Indians.	Pay and expenses of Indian inspectors.	Agricultural improvements.	Miscellaneous.		
														\$13,293 55	\$13,293 55	\$1,131 45
														32,700 62	3 50	3,333 33
														751 81	751 81	3,248 19
		\$1,000 00													1,000 00	2,834 15
															20,600 00	4,400 00
				\$93 87					\$1,155 05					67,559 23	67,559 23	2,440 77
				207 71							\$1,180 65			202 06	5,861 36	984 02
														803 50	2,090 42	872 87
														1,495 90	1,495 90	1,171 40
									80 70	\$6,523 20					7,000 00	4 10
												\$12,126 68			12,126 68	2,766 18
												4,098 22			4,098 22	2,011 39
															3,400 00	
															1,200 00	
															1,125 00	1,348 15
															8,026 85	1,586 55
															22,032 77	27,784 75
	\$660 57		\$409 20	1,599 00			\$4,375 57	\$1,140 75	6,164 55		20 00			5,698 66	20,217 09	416 59
														*5,681 74	20,217 09	579 39
								100 00						3,700 00	1,200 00	
\$3,760 77	15,104 94	606,017 14	319,404 10	146,913 07	\$94,320 23	\$40,453 99	20,607 88	1,737 43	38,914 77	6,523 20	2,211 90	16,224 90	\$24,472 45	170,314 23	583,668 71	268,079 04

telegrams, coloring maps for Interior Department, &c.

H. Ex. 6—2

Statement of the salaries and incidental expenses paid at each agency in the Indian service during the year ending June 30, 1875, showing the appropriations from which paid and the number of Indians at each agency.

Names of agencies.	State or Territory.	Number of Indians at each agency.	Appropriations from which salaries of employes and incidental expenses of agencies have been paid.	Incidental expenses.				Total of incidental expenses.	Pay of employes.		Total pay of employes.
				Traveling expenses of agents.	Office-rent, fuel, light, and stationery.	Forage and stable expenses.	Miscellaneous.		Regular.	Temporary.	
Camp Apache	Arizona	1,800	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	.....	.....	.....	.....	\$3,433 27	\$1,342 66	\$4,775 93
Chiricahua	do	965	Incidental expenses Indian service in Arizona, 1875.	\$350 00	\$194 40	\$29 00	\$13 55	\$586 95	.....	.....	.....
Colorado River	do	1,170	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	13 75	.....	.....	13 75	2,568 34	143 54	2,711 88
Moquis Pueblo	do	1,700	Incidental expenses Indian service in Arizona, 1875.	.....	53 85	51 66	.....	105 51	853 20	96 00	949 20
Papago	do	6,000	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	86 25	2,500 25	.....	2,586 50	7,194 20	2,384 31	9,578 51
Pima and Maricopa	do	4,300	Incidental expenses Indian service in Arizona, 1875.	710 24	24 75	691 10	25 00	1,451 09	24 46	.....	24 46
Rio Verde	do	2,058	do .....	.....	10 41	4 00	10 50	24 91	.....	.....	.....
San Carlos	do	1,100	do	435 87	698 49	305 62	.....	1,439 98	2,212 90	90 00	2,302 90
Hoopa Valley	California	716	do	121 58	2,404 70	1,830 75	.....	4,357 03	5,089 75	682 25	5,772 00
Mission	do	5,026	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	.....	.....	.....	.....	1,618 12	320 67	1,968 79
Round Valley	do	1,200	Incidental expenses Indian service in Arizona, 1875.	231 98	35 20	169 71	.....	436 89	.....	.....	.....
Tule River	do	276	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	4 70	.....	31 55	36 25	5,035 32	2,570 00	7,605 32
Los Pinos	Colorado	3,000	Incidental expenses Indian service in Arizona, 1875.	440 50	127 50	919 68	273 35	1,761 03	.....	.....	.....
White River	do	900	Incidental expenses Indian service in California, 1875.	88 96	.....	.....	.....	88 96	5,790 94	812 10	6,603 04
Cheyenne River	Dakota	7,586	do	296 72	.....	.....	.....	296 72	.....	.....	.....
Crow Creek	do	3,000	do	391 62	.....	.....	.....	391 62	5,982 15	.....	5,982 15
Devil's Lake	do	1,037	do	53 30	25 44	.....	.....	78 74	3,631 53	228 93	3,860 46
Flandreau, (special)	do	359	Fulfilling treaty with Tabequache, Muache, Capote, Weeminuche, Yampa, Grand River, and Uintah bands of Utes, 1875.	118 74	1 50	.....	14 50	134 74	6,000 00	491 89	6,491 89
Fort Berthold	do	1,820	Incidental expenses Indian service in Colorado, 1875.	648 77	4 50	.....	8 75	662 02	.....	314 51	314 51
Ponca	do	730	Fulfilling treaty with Tabequache, Muache, Capote, Weeminuche, Yampa, Grand River, and Uintah bands of Utes, 1875.	.....	.....	.....	.....	.....	2,843 08	241 67	3,084 75
Sisseton	do	1,700	Fulfilling treaty with Utahs, (Tabequache band,) 1875.	.....	.....	.....	.....	.....	720 00	.....	720 00
Spotted Tail	do	8,550	Incidental expenses Indian service in Colorado, 1875.	136 59	24 01	24 00	.....	184 60	.....	19 55	19 55
Standing Rock	do	6,440	Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	.....	28 35	.....	.....	28 35	5,990 00	3,801 90	9,791 90
Yankton	do	2,000	Incidental expenses Indian service in Dakota, 1875.	.....	133 45	.....	.....	133 45	.....	.....	.....
Fort Hall	Idaho	1,500	Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	.....	42 50	150 00	.....	192 50	5,621 42	6,300 94	11,922 36
			Incidental expenses Indian service in Dakota, 1875.	.....	32 45	.....	.....	32 45	.....	325 00	325 00
			Fulfilling treaty with Sisseton and Wahpeton and Santee-Sioux of Lake Traverse and Devil's Lake, 1875.	.....	.....	.....	.....	.....	6,005 00	1,742 73	7,747 73
			Incidental expenses Indian service in Dakota, 1875.	244 12	.....	.....	55 88	300 00	.....	.....	.....
			Subsistence and civilization of Arickarees, Gros Ventres, and Mandans, 1875.	.....	652 80	130 70	152 55	936 05	8,544 27	2,686 87	11,231 14
			Incidental expenses Indian service in Dakota, 1875.	60 00	.....	.....	27 81	87 81	.....	138 00	138 00
			Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	.....	.....	.....	.....	.....	568 42	950 50	1,518 92
			Fulfilling treaty with Poncas, 1875.	.....	.....	.....	.....	.....	270 00	1,411 75	1,681 75
			Incidental expenses Indian service in Dakota, 1875.	199 15	235 45	.....	134 00	588 60	1,407 00	729 45	2,136 45
			Fulfilling treaty with Sisseton and Wahpeton and Santee-Sioux of Lake Traverse and Devil's Lake, 1875.	.....	.....	.....	.....	.....	3,592 47	3,759 16	7,351 63
			Incidental expenses Indian service in Dakota, 1875.	271 59	.....	.....	17 80	289 39	.....	.....	.....
			Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	27 22	44 50	.....	.....	71 72	2,454 18	957 89	3,412 07
			Incidental expenses Indian service in Dakota, 1875.	248 00	.....	.....	.....	248 00	.....	.....	.....
			Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	.....	6 00	.....	.....	6 00	6,000 00	4,311 49	10,311 49
			Incidental expenses Indian service in Dakota, 1875.	197 40	86 80	.....	.....	284 20	.....	.....	.....
			Fulfilling treaty with Sioux, (Yankton tribe,) 1875.	.....	110 00	34 00	.....	144 00	3,000 00	7,371 22	10,371 22
			Incidental expenses Indian service in Dakota, 1875.	.....	373 82	22 85	57 00	453 67	3,000 00	.....	3,000 00
			Settlement, subsistence, and support of Shoshones, Bannocks, and other bands in Idaho and Southeastern Oregon, 1875.	.....	73 80	64 76	399 28	537 84	2,280 15	.....	2,280 15
			Fulfilling treaty with Shoshones and Bannocks, 1875.	.....	.....	24 29	381 46	405 75	3,000 00	.....	3,000 00
			Incidental expenses Indian service in Idaho, 1875.	85 13	.....	.....	75 13	160 26	.....	4,015 75	4,015 75

Statement of the salaries and incidental expenses paid at each agency in the Indian service, &c.—Continued.

Names of agencies.	State or Territory.	Number of Indians at each agency.	Appropriations from which salaries of employes and incidental expenses of agencies have been paid.	Incidental expenses.				Total of incidental expenses.	Pay of employes.		Total pay of employes.
				Traveling - expenses of agents.	Office-rent, fuel, light, and stationery.	Forage and stable-expenses.	Miscellaneous.		Regular.	Temporary.	
Lemhi, (special)	Idaho	600	Fulfilling treaty with Mixed Shoshones, Bannocks, and Sheep-eaters, 1875.	\$128 50	\$33 60		\$109 40	\$271 50	\$1,550 00	\$431 90	\$1,981 90
			Incidental expenses Indian service in Montana, 1875.		29 30	\$243 00	80 09	352 39	750 00	1,167 85	1,917 85
			Incidental expenses Indian service in Idaho, 1875.				200 00	200 00	800 00		800 00
Nez Percé	do	2,800	Fulfilling treaty with Nez Percés, 1875.				35 88	35 88	10,000 00	4,978 83	14,978 83
			Incidental expenses Indian service in Idaho, 1875.		112 53	172 90	89 45	374 88		1,441 54	1,441 54
Cheyenne and Arapahoe	Indian Territory	3,838	Fulfilling treaty with Cheyennes and Arapahoes, 1875.						6,399 09	675 75	7,074 84
			Contingencies Indian Department, 1875.	200 00				200 00			
			Subsistence of Arapahoes, Cheyennes, Apaches, Kiowas, Comanches, and Wichitas, 1875.	129 45				129 45		585 82	585 82
Kickapoo	do	280	Contingencies Indian Department, 1875.		1 75		32 45	34 20			
Kiowa and Comanche	do	2,965	Fulfilling treaty with Apaches, Kiowas, and Comanches, 1875.	114 20				114 20	9,656 36	3,203 06	12,859 42
			Contingencies Indian Department, 1875.		137 75			137 75			
Osage	do	3,517	Subsistence of Kansas Indians, 1875.	166 05	54 30			220 35			
Quapaw	do	1,301	Fulfilling treaty with Quapaws, 1875.						916 43		916 43
			Fulfilling treaty with Senecas and Shawnees, 1875.						690 00		690 00
			Fulfilling treaty with Senecas, Shawnees, Quapaws, Peorias, Ottawas, &c., 1875.						210 00		210 00
			Fulfilling treaty with Senecas, 1875.						420 00		420 00
			Fulfilling treaty with Senecas, Shawnees, Quapaws, Peorias, Ottawas, &c., 1875.						550 00		550 00
Sac and Fox	do	1,419	Contingencies Indian Department, 1875.	180 05	63 85			243 90			
			do		58 68			58 68			
Wichita	do	1,577	Fulfilling treaty with Kickapoos, 1875.						246 66	10 50	257 16
			Colonizing and supporting the Wichitas and other affiliated bands, 1875.						9,096 65	1,847 24	10,943 89
			Contingencies Indian Department, 1875.		88 80			88 80			
Sac and Fox	Iowa	341	Fulfilling treaty with Sacs and Foxes of Mississippi, 1875.						200 00		200 00
			Contingencies Indian Department, 1875.		40 00			40 00			
Central Superintendency	Kansas		Buildings at agencies and repairs, 1875.		450 00			450 00			
Pottawatomie	Kansas	450	Contingencies Indian Department, 1875.	1,042 20	227 55	266 00		1,535 75			
			Fulfilling treaty with Pottawatomies, 1875.						840 00	7 50	847 50
			Contingencies Indian Department, 1875.	29 00	15 00	130 00		174 00			
Mackinac	Michigan	8,920	Fulfilling treaty with Kickapoos, 1875.						659 72		659 72
			Buildings at agencies and repairs, 1875.		55 95			55 95			
			Contingencies Indian Department, 1875.	686 80			87 90	774 70		911 00	911 00
Leech Lake	Minnesota	2,384	Fulfilling treaty with Chippewas, (Pillager and Lake Winnebagoishish bands,) 1875.						2,057 91	1,105 86	3,163 77
			Buildings at agencies and repairs, 1875.							51 87	51 87
			Contingencies Indian Department, 1875.	171 59	80 69		14 15	266 43		30 00	30 00
Red Lake	do	1,141	Fulfilling treaty with Chippewas of Red Lake and Pembina tribe of Chippewas, 1875.						2,920 00	1,233 49	4,153 49
			Contingencies Indian Department, 1875.	98 75	11 86			110 61		36 00	36 00
White Earth	do	2,732	Fulfilling treaty with Chippewas of the Mississippi, 1875.						353 42		353 42
			Buildings at agencies and repairs, 1875.							42 00	42 00
			Contingencies Indian Department, 1875.	100 40	39 26	1 25		140 91			
Blackfeet	Montana	7,031	Fulfilling treaty with Blackfeet, Bloods, and Piegiens, 1875.		85 35	101 95	1,832 35	2,019 65	3,395 85	2,385 94	5,781 79
			Incidental expenses Indian service in Montana, 1875.	389 70			400 00	789 70			
Crow	do	4,200	Fulfilling treaty with Crows, 1875.						4,608 90	3,091 10	7,700 00
			Fulfilling treaty with River Crows, 1875.	327 27			134 76	462 03		545 77	545 77
			Incidental expenses Indian service in Montana, 1875.	153 49	55 34	143 15	643 00	994 98		1,948 86	1,948 86
Flathead	do	1,610	Fulfilling treaty with Flatheads and other confederated tribes, 1875.						6,495 38		6,495 38
			Incidental expenses Indian service in Montana, 1875.	23 00	155 78	154 25	709 90	1,042 93			
Fort Belknap, (special)	do	4,450	Fulfilling treaty with Assinaboines, 1875.	75 00		130 00		205 00	2,515 71		2,515 71
			Fulfilling treaty with Gros Ventres, 1875.	75 00		130 00		205 00	2,515 71		2,515 71
			Incidental expenses Indian service in Montana, 1875.	442 80	94 93		362 27	900 00			
Fort Peck	do	7,307	Support and civilization of the Sioux at Fort Peck agency, 1875.		279 00	467 86		746 86	7,797 42	2,384 02	10,181 44
			Incidental expenses Indian service in Montana, 1875.	878 52			442 45	1,320 97		78 33	78 33
Northern Superintendency	Nebraska		Buildings at agencies and repairs, 1875.		411 00			411 00			
			Contingencies Indian Department, 1875.	300 60	85 84	354 86	349 20	1,090 50			
Great Nemaha	do	323	Fulfilling treaty with Iowas, 1875.						1,571 10		1,571 10
			Contingencies Indian Department, 1875.	25 95	7 73	44 50	11 87	90 05			
Omaha	do	951	Fulfilling treaty with Omahas, 1875.						4,713 87	3,025 83	7,739 70
			Contingencies Indian Department, 1875.	151 33	23 53		31 89	206 75			
Otoe	do	453	Fulfilling treaty with Otoes and Missourias, 1875.						1,362 97	1,872 95	3,235 92
			Contingencies Indian Department, 1875.	121 90	112 23		6 80	240 93			
Pawnee	do	1,788	Fulfilling treaty with Pawnees, 1875.						6,469 88	4,936 63	11,406 51
			Contingencies Indian Department, 1875.	97 84	239 55			337 39			
Red Cloud	do	14,033	Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.		49 60	73 12		122 72	5,867 42	7,514 82	13,382 24

Statement of the salaries and incidental expenses paid at each agency in the Indian service, &c.—Continued.

Names of agencies.	State or Territory.	Number of Indians at each agency.	Appropriations from which salaries of employes and incidental expenses of agencies have been paid.	Incidental expenses.				Total of incidental expenses.	Pay of employes.		Total pay of employes.
				Traveling - expenses of agents.	Office-rent, fuel, light, and stationery.	Forage and stable-expenses.	Miscellaneous.		Regular.	Temporary.	
Red Cloud—Continued..	Nebraska	14,033	Incidental expenses Indian service in Dakota, 1875.	\$614 40	\$57 35	\$123 00	\$43 65	\$838 40	.....	\$16 00	\$16 00
			Incidental expenses Indian service in Wyoming, 1875.	.....	481 75	.....	.....	481 75	\$1,723 29	.....	1,723 29
Santee-Sioux	do	791	Fulfilling treaty with Sioux of different tribes, including Santee-Sioux of Nebraska, 1875.	.....	.....	.....	.....	.....	6,857 65	3,693 68	10,551 33
Winnebago	do	2,322	Contingencies Indian Department, 1875	53 35	106 83	.....	84 90	245 08	.....	.....	.....
			Fulfilling treaty with Winnebagoes, 1875.	.....	.....	.....	.....	.....	4,800 10	6,537 22	11,337 32
Pyramid Lake, or Walker River.	Nevada	6,000	Contingencies Indian Department, 1875	104 55	106 17	.....	555 91	766 63	.....	.....	.....
			Fulfilling treaty with Shoshones, 1875.	151 65	7 50	.....	61 60	220 75	400 00	43 42	443 42
			Incidental expenses Indian service in Nevada, 1875.	244 32	53 67	.....	179 56	477 55	4,750 00	27 77	4,777 77
Southeast Nevada	do	2,027	do .....	.....	.....	.....	.....	.....	2,700 00	.....	2,700 00
			Incidental expenses Indian service in Utah, 1875.	.....	.....	.....	438 28	438 28	2,456 26	.....	2,456 26
			Incidental expenses Indian service in Arizona, 1875.	1,053 10	.....	.....	.....	1,053 10	.....	12 00	12 00
Abiquiu	New Mexico	1,300	Buildings at agencies and repairs, 1875	.....	100 00	.....	.....	100 00	.....	.....	.....
			Incidental expenses Indian service in New Mexico, 1875.	281 10	169 58	38 35	93 00	582 03	1,248 32	289 62	1,537 94
Cimarron	do	900	Buildings at agencies and repairs, 1875.	.....	150 00	.....	.....	150 00	.....	.....	.....
			Incidental expenses Indian service in New Mexico, 1875.	61 50	176 50	178 25	.....	416 25	706 65	.....	706 65
Mescalero Apache	do	1,800	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	37 75	.....	.....	37 75	.....	.....	.....
			Incidental expenses Indian service in New Mexico, 1875.	107 00	40 00	68 50	.....	215 50	1,550 00	.....	1,550 00
Navajoe	do	11,068	Fulfilling treaty with Navajoes, 1875.	142 67	.....	9 50	.....	152 17	.....	1,537 08	1,537 08
			Incidental expenses Indian service in New Mexico, 1875.	.....	.....	88 50	.....	88 50	3,232 25	222 72	3,454 97
Pueblo	do	10,000	Buildings at agencies and repairs, 1875	.....	291 66	.....	.....	291 66	.....	.....	.....
			Incidental expenses Indian service in New Mexico, 1875.	479 35	287 25	140 80	5 35	912 75	600 00	.....	600 00
Southern Apache	do	2,100	Collecting and subsisting Apaches of Arizona and New Mexico, 1875.	.....	6 25	.....	.....	6 25	1,876 06	60 00	1,936 06
			Incidental expenses Indian service in New Mexico, 1875.	436 19	120 75	.....	.....	556 94	1,727 23	.....	1,727 23
New York	New York	4,955	Contingencies Indian Department, 1875	248 12	120 80	.....	.....	368 92	.....	57 00	57 00
Alsea, (subagency)	Oregon	325	Incidental expenses Indian service in Oregon, 1875.	.....	8 17	106 81	.....	114 98	451 00	864 75	1,315 75
Grande Ronde	do	743	Fulfilling treaty with Calapooias, Molallus, and Clackamas of Willamette Valley, 1875.	.....	.....	.....	.....	.....	.....	1,869 23	1,869 23
			Fulfilling treaty with Umpquas and Calapooias of Umpqua Valley, 1875.	.....	.....	.....	.....	.....	.....	115 00	115 00
			Incidental expenses Indian service in Oregon, 1875.	26 65	11 77	.....	28 04	66 46	2,599 60	.....	2,599 60
Klamath	do	890	Fulfilling treaty with Klamaths and Modocs, 1875.	.....	36 66	.....	180 00	216 66	8,308 34	222 79	8,531 13
			Incidental expenses Indian service in Oregon, 1875.	130 54	15 14	.....	180 00	325 68	.....	177 87	177 87
Malheur	do	743	Civilization and subsistence of Indians on the Malheur reservation, 1875.	.....	64 18	1,142 61	.....	1,206 79	4,826 12	1,138 18	5,964 30
			Incidental expenses Indian service in Oregon, 1875.	533 24	.....	.....	451 54	984 78	.....	150 00	150 00
Siletz	do	1,058	do	132 72	100 23	.....	311 46	544 41	4,051 66	3,153 27	7,204 93
Umatilla	do	837	Fulfilling treaty with Walla Walla, Cayuse, and Umatilla tribes, 1875.	.....	.....	.....	.....	.....	8,100 00	780 00	8,880 00
			Incidental expenses Indian service in Oregon, 1875.	207 33	53 75	.....	.....	261 08	.....	1,007 21	1,007 21
Warm Springs	do	680	Fulfilling treaty with confederated tribes and bands in Middle Oregon, 1875.	.....	.....	.....	.....	.....	5,250 00	.....	5,250 00
			Incidental expenses Indian service in Oregon, 1875.	230 18	43 18	59 55	21 64	354 55	.....	190 17	190 17
Uintah Valley	Utah	650	Incidental expenses Indian service in Utah, 1875.	785 45	32 01	.....	275 20	1,092 66	3,783 33	150 00	3,933 33
Colville	Washington	3,117	Incidental expenses Indian service in Washington, 1875.	16 00	125 57	162 35	175 50	479 42	1,650 00	.....	1,650 00
Neah Bay	do	560	Fulfilling treaty with Makahs, 1875.	.....	.....	.....	.....	.....	4,104 36	222 01	4,326 37
			Incidental expenses Indian service in Washington, 1875.	63 22	103 39	31 85	117 20	315 66	100 00	75 00	175 00
Puyallup	do	1,200	Fulfilling treaty with Nisquallies, Puyallups, and other tribes and bands, 1875.	.....	.....	.....	.....	.....	4,464 19	267 75	4,731 94
			Incidental expenses Indian service in Washington, 1875.	575 36	533 79	345 35	140 04	1,594 54	1,978 27	314 75	2,293 02
Quinalt	do	573	Fulfilling treaty with Quinalts and Quillehutes, 1875.	.....	.....	.....	.....	.....	3,949 90	42 50	3,992 40
			Incidental expenses Indian service in Washington, 1875.	26 50	83 44	26 68	136 62	273 24	.....	30 32	30 32
S'Kokomish	do	850	Fulfilling treaty with S'Klallams, 1875.	.....	.....	.....	.....	.....	3,527 17	789 69	4,316 86
			Incidental expenses Indian service in Washington, 1875.	218 90	71 93	.....	9 00	299 83	.....	.....	.....
Tulalip	do	3,250	Fulfilling treaty with D'Wamish and other allied tribes in Washington, 1875.	.....	.....	.....	20 00	20 00	4,400 00	291 68	4,691 68
			Incidental expenses Indian service in Washington, 1875.	114 96	45 00	60 00	238 67	458 63	.....	.....	.....
Yakama	do	3,650	Fulfilling treaty with Yakamas, 1875.	.....	.....	.....	.....	.....	9,489 88	1,929 99	11,419 87
			Incidental expenses Indian service in Washington, 1875.	644 35	106 38	.....	13 89	764 62	630 00	.....	600 00
Green Bay	Wisconsin	2,854	Buildings at agencies and repairs, 1875.	.....	82 00	.....	.....	82 00	.....	.....	.....
			Contingencies Indian Department, 1875.	602 28	.....	.....	107 50	709 78	.....	310 50	310 50

Statement of the salaries and incidental expenses paid at each agency in the Indian service, &c.—Continued.

Names of agencies.	State or Territory.	Number of Indians at each agency.	Appropriations from which salaries of employes and incidental expenses of agencies have been paid.	Incidental expenses.				Total of incidental expenses.	Pay of employes.		Total pay of employes.
				Traveling - expenses of agents.	Office-rent, fuel, light, and stationery.	Forage and stable-expenses.	Miscellaneous.		Regular.	Temporary.	
La Pointe	Wisconsin	4,534	Buildings at agencies and repairs, 1875	.....	\$125 95	.....	.....	\$125 95	.....	.....	.....
			Insurance, transportation, &c., of annuities, &c., to Indians in Minnesota and Michigan, 1875.	.....	.....	.....	.....	.....	.....	\$351 37	\$351 37
			Fulfilling treaty with Chippewas of Lake Superior, 1875.	.....	.....	.....	.....	.....	\$2,200 04	1,033 31	3,233 35
			Fulfilling treaty with Chippewas, (Boise Fort band,) 1875.	.....	.....	.....	.....	.....	450 00	915 53	1,365 53
Shoshone and Bannock..	Wyoming	1,800	Contingencies Indian Department, 1875	\$166 37	35 00	.....	.....	201 37	.....	.....	.....
			Fulfilling treaty with Shoshones, 1875	.....	.....	.....	.....	.....	.....	90 25	90 25
			Fulfilling treaty with Shoshones and Bannocks, 1875.	.....	.....	.....	.....	.....	5,356 42	2,125 00	7,481 42
			Incidental expenses Indian service in Wyoming, 1875.	416 35	12 15	\$219 88	\$65 60	713 98	.....	102 50	102 50
		212,921		20,142 99	10,370 50	12,741 14	13,016 82	56,271 45	314,658 71	124,995 32	439,654 03

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COMMISSIONER OF PATENTS

THE YEAR 1875.

WASHINGTON,
GOVERNMENT PRINTING OFFICE,
1876.

44TH CONGRESS, }
1st Session. }

HOUSE OF REPRESENTATIVES.

{ Ex. Doc.
{ No. 107.

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR

THE YEAR 1875.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1876.

REPORT OF THE COMMISSIONER OF PATENTS
FOR THE YEAR 1871

ANNUAL REPORT

COMMISSIONER OF PATENTS

THE YEAR 1871

WASHINGTON
GOVERNMENT PRINTING OFFICE
1871

LETTER
FROM THE
COMMISSIONER OF PATENTS,

TRANSMITTING

The Annual Report of the Patent Office for the year 1875.

FEBRUARY 1, 1876.—Referred to the Committee on Patents and ordered to be printed.

UNITED STATES PATENT-OFFICE,
Washington, D. C., January 19, 1876.

SIR: I have to transmit to you my annual report of the operations of the Patent Office for 1875, to be laid before Congress.

Very respectfully,

R. H. DUELL,
Commissioner of Patents.

Hon. M. C. KERR,
Speaker of the House of Representatives.

LETTER

TO THE

COMMISSIONER OF PATENTS

WASHINGTON

For a copy of the Patent Office for the year 1871

Respectfully, Sir, I have the honor to acknowledge the receipt of your letter of the 14th inst.

I have the honor to acknowledge the receipt of your letter of the 14th inst.

Washington, D. C., January 11, 1871

Enclosed I have the honor to send you a copy of the report of the Commissioner of Patents for the year 1870, as the full Patent Office.

Very respectfully,
Hon. M. U. Ryan

For a copy of the
Patent Office for the year 1871

Very respectfully,
Hon. M. U. Ryan

ANNUAL REPORT

OF THE

COMMISSIONER OF PATENTS

FOR THE YEAR 1875.

To the Senate and House of Representatives of the United States of America in Congress assembled :

In compliance with section 494 Revised Statutes, I submit the following report for the year ending December 31, 1875.

1. Statement of moneys received.

Amount received on applications for patents, reissues, designs, extensions, caveats, disclaimers, appeals, and trade-marks.....	\$670, 180 00
Amount received for copies of specifications, drawings, and other papers.....	45, 380 85
Amount received for recording assignments.....	18, 912 18
Amount received for subscriptions to the Official Gazette.....	6, 646 33
Amount received for registration of labels.....	2, 334 00
Total	743, 453 36

2. Statement of moneys expended.

Amount paid for salaries.....	\$430, 218 00
Amount paid for photolithographing current issues.....	46, 986 59
Amount paid for photolithographing back issues.....	67, 322 91
Amount paid for illustrations for Gazette.....	49, 428 34
Amount paid for tracings of drawings.....	34, 972 90
Amount paid for contingent and miscellaneous expenses, viz :	
Stationery.....	\$16, 599 27
Painting, glazing, varnishing, paper-hanging, &c.....	1, 067 21
Furniture, carpeting, &c.....	8, 593 96
Fitting up cases in model-rooms, carpenter's work, and repairing furniture.....	20, 073 33
Plumbing and gas-fitting.....	1, 054 17
English patents and foreign periodicals.....	1, 793 44
Hardware.....	2, 269 61
Pay of temporary employes.....	29, 512 52
Miscellaneous items, viz : Books for library, ice, subscriptions to journals, freight, washing towels, withdrawals, money refunded paid by mistake, repairing carriage and harness, keeping horse, advertising, &c.....	11, 765 46
Total	92, 728 97
Total	721, 657 71

3. Statement of the balance in the Treasury of the United States on account of the patent fund.

Amount to the credit of the patent fund January 1, 1875.....	\$865, 113 97
Amount of receipts during the year 1875.....	743, 453 36
Total	1, 608, 567 33
From which deduct expenditures for the year 1875....	721, 657 71
Balance January 1, 1876.....	886, 909 62

4. Statement of the business of the Office for the year 1875.

Number of applications for patents during the year 1875..	21, 638
Number of patents issued, including reissues and designs.	14, 837
Number of applications for extension of patents.....	2
Number of patents extended.....	38

Number of caveats filed during the year.....	3, 094
Number of patents expired during the year.....	1, 323
Number of patents allowed but not issued for want of final fee	3, 518
Number of applications for registering of trade-marks....	1, 055
Number of trade-marks registered.....	1, 138
Number of applications for registering of labels.....	566
Number of labels registered.....	313

Of the patents granted there were to—

Citizens of the United States.....	14, 274
Subjects of Great Britain.....	358
Subjects of France.....	83
Subjects of other foreign governments.....	122

5. Number of patents issued by the United States Patent Office to residents of the different States, Territories, and Foreign Countries, from January 1, 1875, to December 31, 1875.

[The proportion of patents to population is shown in last column.]

States, &c.	No. of patents.	One to every—
Alabama.....	31	32, 161
Arizona Territory.....	2	4, 829
Arkansas.....	11	44, 042
California.....	399	1, 404
Colorado Territory.....	36	1, 107
Connecticut.....	706	761
Dakota Territory.....	3	4, 727
Delaware.....	44	2, 841
District of Columbia.....	214	615
Florida.....	7	26, 821
Georgia.....	63	18, 795
Idaho Territory.....	1	14, 999
Illinois.....	1, 098	2, 313
Indiana.....	378	4, 462
Iowa.....	315	3, 790
Kansas.....	66	5, 521
Kentucky.....	142	9, 303
Louisiana.....	103	7, 057
Maine.....	158	3, 964
Maryland.....	260	3, 203
Massachusetts.....	1, 846	787
Michigan.....	405	2, 923
Minnesota.....	146	3, 011
Mississippi.....	38	21, 787
Missouri.....	362	4, 754
Montana Territory.....	4	9, 974
Nebraska.....	22	5, 833
Nevada.....	16	3, 669
New Hampshire.....	127	2, 506
New Jersey.....	656	1, 534
New Mexico Territory.....	3	37, 101
New York.....	3, 771	1, 163
North Carolina.....	37	28, 956
Ohio.....	1, 091	2, 443
Oregon.....	22	4, 031
Pennsylvania.....	2, 034	1, 724
Rhode Island.....	229	943
South Carolina.....	46	17, 513
Tennessee.....	117	10, 765
Texas.....	118	6, 939
Utah Territory.....	5	19, 916
Vermont.....	122	2, 709
Virginia.....	101	12, 130

5. Number of patents issued by the United States Patent Office to residents of different States, &c.—Continued.

States, &c.	No. of patents.	One to every—
Washington Territory.....	3	12,710
West Virginia.....	48	9,209
Wisconsin.....	284	3,743
Wyoming Territory.....	2	5,759
Great Britain.....	371	.....
France.....	91	.....
Other foreign countries.....	128	.....
United States Army.....	5	.....
United States Navy.....	1	.....
United States in general.....	.....	2,412

6. Comparative statement of the business of the Office from 1837 to 1875, inclusive.

Year.	Applica- tions.	Caveats filed.	Patents issued.	Cash received.	Cash expended.
1837.....	.....	.....	435	\$29,289 08	\$13,506 98
1838.....	.....	.....	520	42,123 54	37,402 10
1839.....	.....	.....	425	37,260 00	34,543 51
1840.....	765	228	473	38,056 50	39,020 67
1841.....	847	312	495	40,413 01	52,666 87
1842.....	761	391	517	36,505 68	31,241 48
1843.....	819	315	531	35,315 81	30,776 96
1844.....	1,045	380	502	42,509 26	36,244 73
1845.....	1,246	452	502	51,076 14	39,395 65
1846.....	1,272	448	619	50,264 16	46,158 71
1847.....	1,531	553	572	63,111 19	41,878 35
1848.....	1,628	607	660	67,576 69	58,905 84
1849.....	1,955	595	1,070	80,752 98	77,716 44
1850.....	2,193	602	995	86,927 05	80,100 95
1851.....	2,258	760	869	95,738 61	86,916 93
1852.....	2,639	996	1,020	112,656 34	95,916 91
1853.....	2,673	901	958	121,527 45	132,869 83
1854.....	3,324	868	1,902	163,789 84	167,146 32
1855.....	4,435	906	2,024	216,459 35	179,540 33
1856.....	4,960	1,024	2,502	192,588 02	199,931 02
1857.....	4,771	1,010	2,910	196,132 01	211,582 09
1858.....	5,364	934	3,710	203,716 16	193,193 74
1859.....	6,225	1,097	4,538	245,942 15	210,278 41
1860.....	7,653	1,084	4,819	256,352 59	252,820 80
1861.....	4,643	700	3,340	137,354 44	221,491 91
1862.....	5,038	824	3,521	215,754 99	182,810 39
1863.....	6,014	787	4,170	195,593 29	189,414 14
1864.....	6,932	1,063	5,020	240,919 98	229,868 00
1865.....	10,664	1,937	6,616	348,791 84	274,199 34
1866.....	15,269	2,723	9,450	495,665 38	361,724 28
1867.....	21,276	3,597	13,015	646,581 92	639,263 32
1868.....	20,420	3,705	13,378	681,565 86	628,679 77
1869.....	19,271	3,624	13,986	693,145 81	486,430 78
1870.....	19,171	3,273	13,321	669,456 76	557,149 19
1871.....	19,472	3,366	13,033	678,716 46	560,595 08
1872.....	18,246	3,090	13,590	699,726 39	665,591 36
1873.....	20,414	3,248	12,864	703,191 77	691,178 98
1874.....	21,602	3,181	13,599	739,278 17	679,288 41
1875.....	21,638	3,094	16,288	743,453 36	721,657 71

EXAMINING CORPS.

The examining corps of the Patent Office consists of twenty-four Principal Examiners, each having a First, Second, and Third Assistant Examiner to aid him in the examination of applications for patents. Inventions of as nearly a homogeneous character as possible are grouped in classes and assigned to each Principal Examiner. The great increase in the number of applications for patents prevents as early action upon them as is desirable, and the delays occasion much annoyance, and frequently great loss to inventors. In order to relieve this burden upon the Office, it will be necessary from time to time to subdivide the present classification, and to assign the examination of some well defined groups of a less complicated character to the charge of a First Assistant Exam-

iner. To do this it will be proper, and I would recommend, an addition to the examining corps of the Office of six First Assistant and six Second Assistant Examiners, to be detailed by the Commissioner of Patents to such work as the best interests of the Office and the public require.

I also recommend that the clause in the act of March 3, 1875, United States Statutes at Large, vol. 18, page 365, abolishing the grade of Third Assistant Examiner be repealed, and have inserted a clause to that effect in a draft of a bill which I shall have the honor to present for your consideration.

I suggest that the abolition of the grade of Third Assistant is at the least premature, as the duplication of the back drawings, which was expected to so much facilitate the work, has not been completed, the appropriation and the time having both proved inadequate. I am of opinion that even when the back drawings are thus reproduced, although their importance can hardly be overestimated, it will not be advisable to reduce the examining corps as proposed, for with each year another 20,000 new applications for patents are presented, and the region of search is proportionately increased, while the constant production of books, disclosing new processes and machinery at home and abroad is another domain of accumulation, whose magnitude one must view with dismay unless the corps be maintained at an adequate strength.

The patent law has never defined the duties of Principal Examiners and their assistants, and as the duties assigned them are of a judicial character, involving great responsibility, and in most instances their action is, practically, final, and not subject to review by any higher authority, I beg leave to suggest an additional section to the patent law, which I have embodied in the draft of a bill referred to.

OFFICIAL GAZETTE OF THE PATENT OFFICE.

This publication is now in its fifth year, having been commenced in January, 1872. It was designed to take the place of the reports, which ceased with the year 1871; in fact, no illustrated reports had been published since June, 1869.

The GAZETTE is issued weekly, and consists of a *letter-press* and a *heliographic* portion stitched together.

The *letter-press* portion contains the text of the decisions of the United States courts in

patent and trade-mark causes, and the decisions of the Commissioner of Patents; also alphabetical lists (patentee and subject-matter) of the issues of the week, and lists of designs, trade-marks, and labels.

The *heliographic* portion consists of the claims, brief description, and a portion of the drawing in each patent and reissue granted during the week.

The GAZETTE forms two volumes yearly of about one thousand pages each, and is accompanied by a yearly volume of four hundred pages, which contains inventor and subject-matter indexes of the patents and trade-marks of the year.

The GAZETTE is sold to subscribers at six dollars per annum unbound. One copy is furnished free to each member of Congress, and eight copies to as many public libraries designated by him.

I desire to draw attention to two facts in regard to the substitution of the GAZETTE for the former reports:

First. The reports issued from 1843 to 1869 were congressional documents, of which the Senate and House bore the expense; none of it, except the preparation of copy for the yearly index, being chargeable upon the force of the Patent Office, or upon the yearly appropriations therefor; and, further, all sums received from sales (\$6,646.33 in 1875) are covered into the Treasury of the United States, and do not swell the appropriation. These facts should be noticed in considering the official estimates of the coming year.

Secondly. The greater scope, fuller information, and the introduction of the new feature of reporting the decisions of the United States courts and of the Commissioner of Patents, indexes to and digests of which reports are prepared for and bound up in each half-yearly volume.

For the purpose of securing early and complete reports of the decisions of the United States courts in patent and trade-mark causes, I have addressed letters to the clerks of these courts requesting them to furnish copies of these decisions and decrees. Prompt replies have been made by some, and from others no communications have been received.

I would respectfully suggest that the clerks of said courts be required, by law, to furnish certified copies of such decisions and decrees to be published by the Patent Office in the manner described, and that when so published

they may have the same force and effect as the reports of cases published by authority of said courts; and, further, that authority be given to the Commissioner of Patents to appoint or detail a suitable person to supervise such publication, and prepare proper digests of the same.

Such a publication can be furnished to inventors and the legal profession at a very moderate price, and the whole subject of patents and patent-law decisions presented in a compact form for reference, and with a promptness never attempted in any country before the issue of the OFFICIAL GAZETTE.

PUBLICATION OF PATENTS.

All circumstances have combined to prove the wisdom of the change made some years since in the mode of issuing patents, namely, by printing the specifications and reproducing in fac-simile, by a heliographic method, the original drawings. The printing of the specifications was commenced November 20, 1866, and the reproduction of the drawings, at first by photography and then by photolithography, July 6, 1869.

Since July 1, 1869, one hundred and fifty copies of each specification and drawing of patents have been printed and stored for sale. Complete sets or single copies are now furnished at about one-twentieth of the former price, and at a profit to the Office. Complete copies of uniform size of the specifications and drawings since July 1, 1871, have been bound in issues of weeks and kept as records. These volumes, under regulations prescribed by Congress, were supplied to the United States courts and to other libraries, but the bulk soon became so onerous that a more compact form was devised.

MONTHLY VOLUMES OF PATENTS.

By omitting the displayed heads, running the specifications into ordinary book-form, and by reproducing the drawings on a scale of one-half linear, the work of a month is compacted into a volume the size of the weekly volumes previously issued. This has proved very satisfactory, and now complete copies within the period of four and a half years last past have been in the most important libraries of the country, where they can be consulted without expense to the searcher.

As stated in reference to the OFFICIAL GAZETTE, all sums received for copies of patents,

drawings, and volumes of issues and indexes, are covered into the Treasury, (\$45,380.85 in 1875, exclusive of sums received for OFFICIAL GAZETTE.)

REPRODUCTION OF BACK ISSUES.

The facility for examining patents granted between July 1, 1871, and the present time has proved so convenient to inventors and litigants, and has done so much to spread a knowledge of the scope and value of the Patent Office duties and work, that it was some time since determined by Congress that the issues for the period 1836-1871 should be placed in like condition, including a period of two years (July, 1869, to July, 1871) when the work of production was in a transition state, and several modes and sizes were adopted, which were discontinued after running for a while.

The reproduction of the work back of July, 1871, so far as the drawings are concerned, has been in progress for several years under the specific yearly appropriations for that purpose.

Unusual progress under the impulse of a generous appropriation has been made in this matter during the latter half of the past year, during which period alone the increased appropriation has been available.

During the past year 19,743 original drawings have been photolithographed, 154 copies of each being made. The total number of sheets thus obtained is 3,040,422. There are 16,250 sheets already traced ready for lithographing, and there remain 30,370 to be traced and photolithographed. The number not yet commenced is but one-fourth part of the whole number of issues back of July 1, 1871. The amount estimated for in the coming fiscal year will, it is believed, complete this work of reproducing the drawings.

I earnestly hope that Congress will see fit to authorize and provide for the reprinting of the back specifications to the year 1836, at which period the unfortunate fire destroyed the previous records beyond the possibility of reproduction. Until that is done the records of the patents of this country are only in manuscript, and of those manuscripts but two copies are in existence, while of the English patents all of the specifications are in print from the earliest period, (A. D. 1609,) and, by the liberality of the English government, we procure better records of the English patents than of our own. The proceeds of the sale of

such printed specifications would be largely re-imbursed to the Government. At present all specifications back of November, 1866, are furnished in manuscript. Anything short of the proposed mode of establishing and publishing the records of the Office must be considered but a temporary expedient, and really unworthy of the dignity of the Government, the importance of the subject, and the security of the interests involved.

GENERAL INDEXES OF PATENTS.

A general alphabetical index of patents from 1790 to 1873, embracing about 171,000 patents and trade-marks, arranged in separate sets under two heads (*subject-matter* and *inventors*) has been some time in preparation. The completed subject-matter index occupies 1,950 pages quarto, is electrotyped, and bound volumes have been for sale at \$20 per copy for some time past. The index of inventors is in a forward condition, and will be a work of similar size and price.

The work has been done out of the current appropriations. The sums received on sales are covered into the Treasury, as stated above.

LIBRARY.

For many years the library has been supplied by occasional drafts upon the "contingent fund." The amount received from this source has been quite insufficient to furnish it with the books actually necessary, and, relatively to the largely-increased volume of technical literature, the library is constantly running behindhand.

The earliest legislation found on this subject is, I think, contained in the act of March 3, 1839, chap. 88, sec. 5, in which an appropriation of \$1,000 was made from the patent fund, to be expended under the direction of the Commissioner for the purchase of books for the library of the Patent Office, (5 Statutes at Large, 353.) This may be regarded, perhaps, as the organizing act for the library, although some books may have been procured earlier (under contingent expenses) in administration of the act of 1836, chap. 357, sec. 7, requiring in each application for letters patent "an examination of the alleged new invention or discovery" as to its originality and novelty.

The consolidated act of July 8, 1870, chap. 230, sec. 15, provides "that there shall be purchased, for the use of said Office, a library of such scientific works and periodicals, both

foreign and American, as may aid the officers in the discharge of their duties, not exceeding the amount *annually appropriated* by Congress for that purpose." (16 Stat. at Large, 200.) This assumes that annual estimates and appropriations will be made specifically for the library.

In view of the fact that the growth of the library, by the continual accession of new and needful works, is, by law, as much a standing necessity of the present organization of the Patent Office as the support of a corps of examiners required to investigate such works, it would seem inappropriate to class its interests with fluctuating contingencies not capable of special indication. A practical evil resulting from the failure of special recognition by Congress has been the lack of means to purchase many technical journals and representative works on the mechanic arts which should be found on the shelves of a library invested with such important functions.

The medical library of the Surgeon-General's Office, which, as a special-reference library, most nearly resembles that of the Patent Office, although a younger library and much less consulted, now numbers upward of 37,000 volumes, while the Patent Office library does not exceed 23,000 volumes. The annual appropriation for the former library is \$5,000 out of the revenue of the Government.

An appropriation of \$5,000 from the fund collected by the Patent Office from the inventors of our country would be a moderate provision for supplying the deficiencies of the library, and maintaining its character as an exposition of the most recent state of the constantly-growing arts and manufactures.

Works of the character indicated are required to be examined in nearly every application that may be filed for an American patent. Inventors and counsel in patent causes come to this library from every portion of the United States, and have a right to expect that it shall be the best technical library in the country, and fully abreast with the most advanced thought of the world within the limits of its special domain.

INCREASED ACCOMMODATION.

The increase in the business of this Bureau is so great that I am impelled to urge most earnestly, as have my predecessors, your aid in supplying more enlarged accommodations for the employés, and additional room for

drawings, models, books, and papers that are required to be preserved for the use of the Office. From five to twelve persons are now obliged to occupy each of the twenty-four rooms assigned to the Principal Examiners, in size averaging twenty feet square. The necessary desks, tables, chairs, and cases for holding files and models so reduce the above area as to materially hinder and delay the work of the Office and impair the health of the employés.

The increasing demand for additional room for the arrangement and display of patented models, averaging over thirteen thousand yearly for the past eight years, has made it necessary to remove rejected models, to the number of about 10,000, to an open space under the roof of the west wing of the Patent Office building. The floor of this attic and the model-shelves are composed of rough boards, and the place itself is very difficult of access. The trouble increases yearly, and if no provision can be made for relief in this regard, it will be necessary to do away entirely with models. This would be very unfortunate, because they are in many cases absolutely necessary to the complete understanding of the inventions presented.

I am certain that an inspection by the Patent Committees of the Senate and House will assure them that the statements above made are not exaggerated.

The same remarks apply to the accommodations for drawings, printed records, books of reference, and patented files.

THE CENTENNIAL.

The Patent Office is to be represented at the Centennial Celebration, and a space of 10,000 square feet has been assigned for the exhibition of models of American inventions, illustrating the more important and useful industries. Models to the number of about 5,000 are being selected for this purpose, being about three per cent. of the aggregate number in the possession of the Patent Office. These, while illustrating in part the progress of our country in "mechanical and manufacturing industries," and the development of American genius and skill, represent in one way only the results attained. Another mode of presentation of the facts and figures in the case is obtainable from the Census Report of 1870, and the general subject-matter indexes of Patent Office reports since the year 1790.

In referring to the Census, under the head of "manufactories in operation in 1870 exclusively for agricultural implements," it is found that the—

Number of establishments in operation was.....	2, 076
Number of steam-engines at work.....	676
Horse-power.....	15, 873
Number of water-wheels at work.....	426
Horse-power.....	10, 209
Number of hands employed.....	25, 249
Capital invested.....	\$34, 834, 600
Wages paid.....	\$12, 151, 504
Material used, value.....	\$21, 473, 925

The Census shows an increase of \$34,578,825 in the value of agricultural implements manufactured over the amount reported in 1860, and of \$45,224,174 over the amount reported in 1850, while the total value for the year 1870 of the "mechanical and manufacturing industries" aggregates the sum of \$4,232,335,442.

The following are the products of agricultural implements of the manufactories first above referred to, being the articles manufactured and number made :

Cane-mills.....	108
Clover-hullers.....	5, 206
Corn-planters.....	21, 709
Corn-shellers.....	12, 941
Cotton-planters.....	2, 000
Cultivators.....	88, 740
Fanning-mills.....	19, 772
Grain-cradles.....	103, 646
Grain-drills.....	32, 033
Hand-rakes.....	207, 310
Harrows.....	9, 150
Harvesters.....	3, 566
Hay and straw cutters.....	30, 879
Hay-forks.....	1, 293, 260
Hoes.....	135, 139
Horse-powers.....	4, 541
Horse-rakes.....	80, 919
Lawn-mowers.....	2, 536
Mowers.....	39, 486
Plows.....	864, 947
Reapers.....	60, 388
Reapers and mowers combined.....	59, 645
Rollers and scrapers.....	4, 803
Seed-sowers.....	6, 900
Scythes.....	881, 244
Sythe-snaths.....	17, 680
Separators.....	1, 131
Shovels.....	25, 756
Sickles.....	300
Stump-pullers.....	124
Thrashers.....	22, 934
Other products.....	5, 206, 789

For the articles above enumerated, there have been granted between the years 1790 and 1873, inclusive—that is to say, since the organization of this Office, (1790)—the following patents :

Cane-mills.....	66
Clover-hullers.....	100
Corn-planters.....	647
Corn-shellers.....	378
Cotton-planters.....	173
Cultivators.....	1, 617
Fanning-mills.....	127
Grain-cradles.....	18
Grain-drills.....	186
Hand-rakes.....	9
Harrows.....	329
Harvesters.....	2, 244

Hay-forks.....	382
Hoes.....	201
Horse-powers.....	415
Horse-rakes.....	373
Lawn-mowers.....	38
Mowers.....	173
Plows.....	2, 451
Reapers.....	69
Reapers and mowers combined.....	61
Rollers and scrapers.....	141
Seed-sowers.....	579
Scythes.....	50
Scythe-snaths.....	26
Separators.....	334
Shovels.....	58
Sickles.....	13
Stump-pullers.....	191
Thrashers.....	732

I have further selected from the list of patents 1790–1873 the number of patents granted in some other classes or subjects of invention. These indicate the scope and versatility of the inventive genius of our country, and all enter more or less into the "mechanical and manufacturing industries" that have been referred to. They are as follows :

Bee-hives.....	645
Bending-machines for wood and metal.....	144
Boots and shoes, manufacture of, and articles used therein.....	817
Brick-kilns and brick-machines.....	808
Bridges.....	425
Brooms and brushes, and their attachments.....	750
Buckles.....	388
Burglar-alarms.....	165
Burners, gas, lamp, and vapor.....	793
Car-brakes.....	485
Car-couplings.....	961
Car-wheels.....	314
Carriages and their appendages.....	1, 495
Churns and their appendages.....	1, 391
Clothes driers and wringers.....	984
Curtain-fixtures.....	364
Fire-arms.....	1, 203
Gas and gas apparatus.....	1, 399
Grain, cutting, binding, and drying.....	135
Grinding and grist mills.....	371
Lamps and appurtenances.....	1, 483
Looms and appurtenances.....	1, 210
Paper, manufacture of.....	269
Pavements.....	404
Photography.....	346
Planing-machines, wood and metal.....	384
Propellers, and apparatus for.....	570
Printing-presses, apparatus and material.....	756
Railway apparatus and connections.....	1, 552
Roofs and roofing.....	506
Rotary engines.....	170
Saw-mills and machines.....	1, 981
Sewing-machines and their attachments.....	2, 295
Steam-engines and apparatus.....	1, 013
Stoves.....	2, 400
Straw-cutters and machines.....	401
Sugar mills and machinery.....	343
Telegraph and instruments.....	566
Toys.....	300
Tobacco-presses and manufactures.....	197
Valves.....	1, 497

Total number of patents issued since 1790.....	171, 640
Total number of reissues.....	6, 830
Total number of designs.....	8, 883
Total number of trade-marks.....	3, 287
Total number of labels.....	464

Respectfully submitted.

R. H. DUELL,
Commissioner of Patents.

DEPARTMENT OF THE INTERIOR,
U. S. PATENT OFFICE, January 19, 1876.

ALPHABETICAL LIST

OF

PATENTEEES FOR THE YEAR 1875.

[Claims and drawings of Designs, Extensions, and Disclaimers are not carried into the Monthly Volumes or the Gazette.]
[Trade-marks are in a separate index.]

Number.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Specification.	Drawing.	Volume.	Page.
167, 486	Aaron, Charles H., San Francisco, Cal. Amalgamator.....	Sept. 7, 1875	91	28	8	419
158, 562	Aaron, David, Marysville, Cal. Blind-slat adjuster.....	Jan. 12, 1875	201	69	7	53
164, 120	Abbot, Isaac A., New Orleans, La. Sewing-machine fan-attachment.....	June 8, 1875	270	92	7	978
166, 055	Abbott, Arthur A., Chicago, Ill. Sleigh.....	July 27, 1875	915	283	8	170
	Abbott, Essex S. (See Addy & Abbott.)					
170, 147	Abbott, John B., San José, Ill. Corn-planter.....	Nov. 23, 1875	837	263	8	867
167, 422	Abbott, Jonathan P., Cleveland, Ohio. Eave-trough hanger.....	Sept. 7, 1875	42	12	8	412
171, 253	Same.....	Dec. 21, 1875	596	195	8	1045
	Abbott, Nathan B. (See Crawford, John P., assignor.)..... (Reissue.)					
167, 423	Abbott, Nathan B., and John P. Crawford, Brooklyn, N. Y. Pavement.....	Sept. 7, 1875	43	12	8	412
167, 487	Abbott, Samuel M., Wilmington, Ill. Windmill.....	Sept. 7, 1875	92	29	8	419
167, 599	Abbott, William H., Fryeburgh, Me. Toe-weight for horses.....	Sept. 14, 1875	209	65	8	443
166, 056	Abell, Irvin H., assignor to East Hampton Bell Company, East Hampton, Conn. Alarm-bell.....	July 27, 1875	916	283	8	171
166, 835	Abell, Olif, Wolcott, Vt. Paper-stock grinder.....	Aug. 17, 1875	628	195	8	306
165, 524	Abell, Olif, Wolcott, Vt., assignor to Joseph Potter, Whitehall, N. Y. Machine for dressing stone and marble.....	July 13, 1875	388	115	8	69
161, 191	Abendroth, William P., Port Chester, N. Y. Fire-place.....	Mar. 23, 1875	877	288	7	494
166, 842	Same..... Cooking-range.....	Aug. 3, 1875	52	17	8	206
	Abernethy, Willard P., et al. (See Gibson, Jacob H., assignor.)					
	Abernethy, Willard P., et al. (See Kempshall, Eleazer, assignor.)					
166, 057	Abrahams, Isaac B., New York, N. Y. Jewelry-pin.....	July 27, 1875	917	283	8	171
163, 129	Abrams, Addison W., Springfield, Mass. Flue-cleaner.....	May 11, 1875	382	123	7	805
	Abrams, George H. (See Hewey & Abrams.)					
164, 409	Abrams, Lorenzo D., Tuscola, Ill. Wind-wheel.....	June 15, 1875	557	181	7	1025
162, 596	Acker, Allen S., Lockport, N. Y. Hoe.....	Apr. 27, 1875	951	306	7	720
164, 703	Acker, Stephen, and Nelson L. Robinson, Batchellerville, N. Y. Corner for vehicle-bodies.....	June 22, 1875	827	269	7	1070
158, 772	Ackerman, Bernard, New York, N. Y. Preparation of fertilizers.....	Jan. 19, 1875	407	137	7	97
	Ackerman, George J. (See Ackerman, John N. and George J.)					
159, 057	Ackerman, John N. and George J., Hackensack, N. J. Chain-gripe and tightener.....	Jan. 26, 1875	700	230	7	142
168, 953	Acklom, John E., Cheltenham, England. Refrigerator-car.....	Oct. 19, 1875	609	202	8	667
165, 971	Acton, John H., Jackson C. H., Ohio. Car-coupling.....	July 27, 1875	838	258	8	160
153, 350	Adair, James, Pittsburgh P. O., Pa. Buckle.....	Jan. 5, 1875	1	1	7	9
165, 194	Same..... Fire-place.....	July 6, 1875	53	15	8	16
167, 049	Adam, John G., Newport, Ky. Beer-faucet.....	Aug. 24, 1875	848	264	8	345
162, 330	Adams, Adolphus A., Pittsburgh, Pa. Manufacture of glassware.....	Apr. 20, 1875	683	223	7	678
160, 806	Adams, Alden J., New York, N. Y. Neck-tie.....	Mar. 16, 1875	533	172	7	439
	Adams, Alonzo P. (See Wiles, Thomas S., assignor.)					
	Adams & Co., John. (See Gill, James C., assignor.)					
169, 755	Adams, Calvin, assignor to Stephen Jarvis and S. J. Adams, Pittsburgh, Pa. Pump-handle link.....	Nov. 9, 1875	437	133	8	800
160, 635	Adams, David L., Buffalo, N. Y. Car-coupling.....	Mar. 9, 1875	349	118	7	408
167, 380	Adams, Ephraim H., Lykens, Ohio. Land-roller.....	Sept. 7, 1875	1	1	8	407
167, 968	Adams, Franklin F., Erie, Pa., assignor to self and Alonzo Farrer, Brookline, Mass. Draw-bar for street-cars.....	Sept. 21, 1875	540	173	8	499
159, 880	Adams, George B., Newark, N. J., assignor of one-half interest to Edwin Putnam and John J. Cowell. Fastener for meeting-rails of sashes.....	Feb. 16, 1875	619	204	7	282
165, 651	Adams, George D., Worcester, Mass. Ice-cream refrigerator.....	July 20, 1875	521	159	8	105
160, 636	Adams, Henry B., New York, N. Y. Cuff-holder.....	Mar. 9, 1875	351	118	7	408
170, 501	Adams, Henry P., Cleveland, Ohio. Butter-package.....	Nov. 30, 1875	1173	370	8	922
170, 148	Adams, Henry W., jr., Philadelphia, Pa. Brick-kiln.....	Nov. 23, 1875	838	263	8	867
170, 149	Adams, Henry W., Philadelphia, Pa. Valve-box for engines.....	Nov. 23, 1875	840	263	8	867
6, 313	Adams, Isaac, jr., assignor to American Nickel Plating Co. Coating metals with metal..... (Reissue.)	Mar. 2, 1875	228	77	7	381
6, 402	Adams, Isaac, jr., Boston, Mass., assignor to United Nickel Company, New York, N. Y. Coating metals with metal..... (Reissue.)	Apr. 27, 1875	1100	.....	7	738
167, 288	Adams, James L., and Joseph G. Blondin, Montreal, Canada; said Blondin assignor to said Adams. Tobacco-cutter.....	Aug. 31, 1875	1087	341	8	385
170, 696	Adams, James S., Olathe, Kans. Cooking-stove.....	Dec. 7, 1875	40	12	8	956
166, 836	Adams, John F., Irvington, assignor to John V. and Bloomfield Brower, New York, N. Y. Paper-weight.....	Aug. 17, 1875	629	195	8	306
169, 665	Same..... Kaleidoscope.....	Nov. 9, 1875	344	109	8	788
169, 882	Same..... Kaleidoscope.....	Nov. 16, 1875	577	179	8	825
165, 972	Adams, John P., Brooklyn, assignor of one-half interest to James A. Ruthven, New York, N. Y. Manufacture of metal knob-shanks.....	July 27, 1875	839	258	8	160
167, 050	Adams, John Q., Marseilles, Ill. Windmill.....	Aug. 24, 1875	848	264	8	345
167, 488	Adams, Joseph, Washington, D. C. Gas-regulator.....	Sept. 7, 1875	92	29	8	419
	Adams, Lewis M., et al. (See Edwards, George W., assignor.)					
166, 445	Adams, Lewis V., Rock Island, Ill. Station-indicator.....	Aug. 10, 1875	269	81	8	245
167, 489	Adams, Luther, Mattoon, Ill. Rotary engine.....	Sept. 7, 1875	93	29	8	419
	Adams, Michel. (See Bolton & Adams.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
169, 883	Adams, Nathan, Altoona, Pa. Hand-truck	Nov. 16, 1875	578	179	8	825
158, 664	Adams, Orwin, Battle Creek, Mich. Rotary engine	Jan. 12, 1875	294	99	7	65
170, 695	Adams, Robert A., Pittsburgh, Pa. Frame for graining plates	Dec. 7, 1875	39	11	8	956
	Adams, Samuel. (See Johnsen & Adams.)					
161, 729	Adams, Samuel, assignor to Joseph W. Ross, Boston, Mass. Self-supporting hinges	Apr. 6, 1875	121	42, 43	7	586
167, 289	Adams, Samuel M., New York, N. Y. Process for ornamenting china, glass, &c.	Aug. 31, 1875	1088		8	385
159, 058	Adams, Sebastian C., Cincinnati, Ohio. Map-exhibitor	Jan. 26, 1875	701	230	7	142
	Adams, S. J., et al. (See Adams, Calvin, assignor.)					
170, 797	Adams, S. William C., North Lansing, Mich. Sawing-machine	Dec. 7, 1875	130	43	8	968
160, 989	Adams, William, Long Island, Kans. Plow	Mar. 23, 1875	695	229	7	471
170, 798	Adams, William, Pittsburgh, Pa. Device for removing the blow-over from glassware	Dec. 7, 1875	131	43	8	968
163, 718	Adams, William H., Mount Gilead, Va. Car-coupling	May 25, 1875	949	301	7	902
169, 939	Adams, Willis, Neelyville, Ill. Clothes-drier	Nov. 16, 1875	626	194	8	831
160, 251	Adamson, James M., Prairie City, Iowa. Medical compound	Mar. 2, 1875	1		7	349
	Adamson, William, et al. (See Black, William K., assignor.)					
163, 130	Adamson, William, Philadelphia, Pa. Extracting fatty matters from tanner's scraps, &c.	May 11, 1875	382		7	805
6, 220	Adamson, William, and Charles F. A. Simonin, assignors to William Adamson, Philadelphia, Pa. Treatment of grain for the manufacture of starch, spirits, &c. (Reissue) ..	Jan. 12, 1875	397		7	79
163, 906	Addison, Thomas, and James T. Yates, Ellicott City, Md. Washing-machine	June 1, 1875	57	19	7	938
167, 816	Addy, Charles J., and Essex S. Abbott, Boston, Mass. Shoe-edge-trimming machine	Sept. 21, 1875	417	133	8	481
169, 884	Addy, Charles J., Boston, assignor to Tapley Heel Burnishing Machine Association, } Lynn, Mass. Heel-burnishing machine	Nov. 16, 1875	579	179	8	825
				180		
163, 331	Adee, Frederick, and James Foley, Brooklyn, N. Y. Trap for basins, &c.	Apr. 20, 1875	684	223	7	678
168, 121	Same	Sept. 28, 1875	718	226	8	530
160, 860	Adgate, Joseph J., Stevensville, N. Y. Lifting-jack	Mar. 16, 1875	575	187	7	445
160, 861	Same	Mar. 16, 1875	575	187	7	445
160, 862	Same	Mar. 16, 1875	576	187	7	445
158, 665	Adgate, Joseph J., Stevensville, N. Y., assignor to John Maitland, J. H. Sternbergh, and Caleb Wheeler, Reading, Pa. Spike	Jan. 12, 1875	296	100	7	65
150, 136	Adgate, Joseph J., Stevensville, N. Y., assignor of three-fourths interest to John Maitland, J. H. Sternbergh, and Caleb Wheeler, Reading, Pa. Nut-lock	Jan. 26, 1875	768	253	....	152
	Adler, Abraham S., et al. (See Hussey, John H., assignor.)					
	Adler, Bär. (See Lanzweert, Louis, assignor.)					
	Adler, Clement & Weil. (See Hussey, John H., assignor.)					
	Adler, Clement & Wiel, et al. (See Hussey, John H., assignor)					
158, 881	Adler, Henry, Pittsburgh, Pa. Metallic ceiling	Jan. 19, 1875	506	170	7	110
	Adrian, John P. (See Cranston, Samuel F., assignor.)					
	Adrian, Walter. (See Velie, Henry C., assignor.)					
164, 506	Adsitt, Eugene F., assignor of two-thirds interest to Alonzo H. Terwilliger and Sanford R. Ten Eyck, Waterloo, N. Y. Pump	June 15, 1875	639	207	7	1035
162, 991	Adt, John, New Haven, assignor to Stanley Works, New Britain, Conn. Machine for pointing staples	May 11, 1875	257	83	7	789
	Agens, Thomas. (See Lockard & Agens.)					
	Same					
8, 386	Agens, Thomas, and John C. Post, Newark, N. J. Chapeau-block	June 15, 1875			7	1013
167, 969	Agular, Joseph, Baltimore, Md. Soldering-iron	Sept. 21, 1875	541	174	8	499
	Ahearn, Maurice. (See Walsh & Ahearn.)					
170, 041	Ahlstrom, Jesper O., Williamsburgh, N. Y. Screw-fastening	Nov. 16, 1875	709	225	8	843
169, 396	Ahlstrom, Oscar G., New York, N. Y. Swimming-shoe	Nov. 2, 1875	72	21	8	744
	Ahrens, Bernard. (See Russell & Sax, assignors.)					
160, 562	Ahrens, George, Crete, Ill. Extension-table	Mar. 9, 1875	289	98	7	399
	Aiken, James, et al. (See Eichbaum, Frederick H., assignor.)					
	Aiken, John, et al. (See Perry, William V., assignor.)					
160, 990	Aiken, Walter, Franklin, N. H. Screw-blank feeder	Mar. 23, 1875	695	229	7	471
162, 137	Same	Apr. 20, 1875	509	168	7	657
162, 453	Same	Apr. 27, 1875	829	267	7	705
164, 410	Aikman, John, Norwich, Canada. Lock-hinge	June 15, 1875	557	181	7	1025
164, 704	Aitken, Andrew, Wells River, Vt. Ironing and kitchen table	June 22, 1875	828	270	7	1070
169, 756	Aitken, Henry, Falkirk, North Britain. Coke-oven	Nov. 9, 1875	437	139	8	800
165, 195	Albaugh, William A., and John Toole, Baltimore, Md. Brush	July 6, 1875	53	15	8	16
165, 973	Albee, George E., Minneapolis, Minn. Riding and pack saddle	July 27, 1875	839	258	8	160
166, 058	Same	July 27, 1875	918	283	8	171
160, 136	Albert, Charles F., Philadelphia, Pa. Chin-rest for violins	Feb. 23, 1875	863	286	7	323
160, 069	Albertson, Albert, Jersey City, N. J., assignor to Philip Corrigan, New York City. Lamp	Feb. 23, 1875	811	266	7	315
168, 822	Albertson, Albert, Jersey City, N. J. Candlestick	Oct. 19, 1875	493	161	8	651
170, 428	Albertson, Albert, Jersey City, N. J., assignor to Philip Corrigan, New York City. Wick-raiser for lamps	Nov. 23, 1875	1089	343	8	902
	Albertson, C. H., et al. (See Burnett, Oswald, assignor.)					
6, 247	Albertson, James M., New London, Conn. Horse-power	Jan. 26, 1875	869	283	7	166
162, 786	Same	May 4, 1875	48	15	7	753
166, 677	Same	Aug. 17, 1875	487	149	8	285
168, 954	Albrecht, Hermann, Philadelphia, Pa. Fluting-machine	Oct. 19, 1875	610	202	8	667
169, 327	Same	Nov. 2, 1875	1	1	8	735
	Albright, Andrew. (See Dunham, Ralph C., assignor)					
	Same					
167, 600	Albright, Andrew, Newark, N. J. Horseshoe	Sept. 14, 1875	209	65	8	443
168, 703	Alden, Charles, Newburgh, N. Y. Preparing clams and oysters for food	Oct. 11, 1875	374		8	625
	Alden, Charles E. (See Buist & Alden.)					
	Alden, Farrelly. (See Alexander, Abram, assignor.)					
169, 940	Alden, William W., Providence, R. I. Braided jewelry	Nov. 16, 1875	627	194	8	831
160, 137	Alderman, Frank R., assignor of one-half interest to Fred B. Perkins, Grand Rapids, Mich. Machine for indexing books	Feb. 23, 1875	864	286	7	323
160, 501	Alderson, Franklin B., San José, Cal. Bill-file	Mar. 9, 1875	235	81	7	391
162, 876	Same	May 4, 1875	126	42	7	763
165, 401	Same	July 13, 1875	273	81	8	53
160, 293	Aldrich, Frank B., Chicago, Ill. Butter-worker	Mar. 2, 1875	33	13	7	353
158, 773	Aldrich, George W., assignor of one-half interest to William H. Bond, Syracuse, N. Y. Fluid can and measure	Jan. 19, 1875	408	137	7	97
161, 921	Same	Apr. 13, 1875	306	102	7	623
167, 601	Aldrich, George W., Syracuse, assignor of one-half interest to Isaac R. Pharis, Geddes, N. Y. Liquid-measure	Sept. 14, 1875	210	65	8	443
169, 941	Aldrich, James T., Norwich, Conn. Registering-gate	Nov. 16, 1875	627	195	8	831

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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164, 955	Aldrich, Martin V., and George F. Huggins, East Saginaw, Mich. Car-brake	June 29, 1875	1077	347	7	1109
166, 678	Aldrich, Wales, assignor of one-half interest to Dayton Machine Company, Dayton, Ohio. Force-feed apparatus for grain-drills	Aug. 17, 1875	488	149	8	285
166, 739	Aldrich, Wales, assignor to Dayton Machine Company, Dayton, Ohio. Grain-drill	Aug. 17, 1875	547	168	8	293
169, 328	Aldrich, Wales, assignor of one-half interest to Henry C. Herchelrode, Dayton, Ohio. Horse hay-rake	Nov. 2, 1875	2	1	8	735
169, 329	Same..... Horse-rake	Nov. 2, 1875	3	1	8	735
165, 292	Aldrich, William H., Beloit, Wis. Windmill	July 6, 1875	134	40	8	27
169, 942	Aldridge, Liberty, Boston, assignor to self and E. Baker Welch, Cambridge, Mass. Watchman's time-check	Nov. 16, 1875	628	195	8	831
163, 348	Alexander, Abram, Pittsburgh, assignor to Farrelly Alden, Allegheny, Pa. Compound steam-engine	May 18, 1875	606	193	7	850
164, 121	Alexander, Alfred M., Indianapolis, Ind. Folding umbrella	June 8, 1875	271	93	7	979
164, 507	Alexander, Charles H., Henry W., and Edward P., Philadelphia, Pa. Leather belting ..	June 15, 1875	640	207	7	1036
169, 222	Alexander, Charles L., Washington, D. C. Sash-fastener	Oct. 26, 1875	879	286	8	712
170, 503	Alexander, Charles M., Washington, D. C. Reclining-chair	Nov. 30, 1875	1174	371	8	922
	Alexander, C. M., et al. (See Kacerovsky, Joseph, assignor.)					
	Alexander, Edward P. (See Alexander, Charles H., Henry W., and Edward P.)					
	Alexander, George F. (See Berry & Alexander.)					
	Alexander, Henry W. (See Alexander, Charles H., Henry W., and Edward P.)					
165, 049	Alexander, J. Park, Akron, Ohio. Process in the manufacture of fire-brick	June 29, 1875	1154		7	1120
170, 502	Same..... Manufacture of fire-brick	Nov. 30, 1875	1174		8	922
	Alexander, Margaret. (See Alexander, Urbana D., assignor.)					
	Alexander, Thomson H. (See Uindeleff, Dmitry, assignor)					
162, 454	Alexander, Urbana D., assignor to Margaret Alexander, Chicago, Ill. Coal-hod	Apr. 27, 1875	830	267	7	705
165, 698	Same..... same	July 20, 1875	562	172	8	110
159, 059	Algeo, William G., sr., and William G., jr., Rochester, Pa. Burial-casket	Jan. 26, 1875	702	231	7	142
163, 907	Alger, Freeman. (See Morris, Thomas M., assignor.)					
	Alger, George A., Manchester, assignor to Samuel G. Parker and John M. Farrar, Nashua, N. H. Combined carpet-stretcher and tack-driver	June 1, 1875	58	20	7	938
169, 757	Alisoff, Michael, St. Petersburg, Russia. Type-writing machine	Nov. 9, 1875	440	{ 139 } 140	8	800
170, 978	Allain, Alphonse, Paris, and Alfred R. Dejean, Alais, France. Ore-washer	Dec. 14, 1875	310	103	8	999
170, 799	Allaire, Pierre L., Paris, France. Illuminating-gas apparatus	Dec. 7, 1875	132	44	8	968
7, 986	Allan, Robert, assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet	Jan. 5, 1875			7	5
8, 045	Same..... same	Feb. 9, 1875			7	222
8, 046	Same..... same	Feb. 9, 1875			7	222
8, 428	Same..... same	June 29, 1875			7	1098
8, 429	Same..... same	June 29, 1875			7	1098
8, 430	Same..... same	June 29, 1875			7	1098
8, 431	Same..... same	June 29, 1875			7	1098
8, 432	Same..... same	June 29, 1875			7	1098
8, 433	Same..... same	June 29, 1875			7	1098
8, 434	Same..... same	June 29, 1875			7	1098
8, 435	Same..... same	June 29, 1875			7	1098
8, 436	Same..... same	June 29, 1875			7	1098
8, 437	Same..... same	June 29, 1875			7	1098
8, 438	Same..... same	June 29, 1875			7	1098
8, 439	Same..... same	June 29, 1875			7	1098
159, 137	Allard, Darerick, Saint Albans, Vt. Spark-arrester	Jan. 26, 1875	769	253	7	152
171, 594	Allard, Darerick, Saint Albans, Vt. Spark-arrester	Dec. 28, 1875	925	303	8	1098
164, 705	Allen, Addis E., Perch River, N. Y. Rock-drilling mechanism	June 22, 1875	828	270	7	1070
167, 490	Allen, Almerrin P., Denmark, Iowa. Roller and harrow	Sept. 7, 1875	94	29	8	420
6, 332	Allen, Anthony B., assignor, by mesne assignments, to Rufus Dutton and Richard H. Allen. Mowing-machine	Mar. 16, 1875	686	225		461
160, 863	Allen, Arthur M., assignor to Mary S. Allen, New York, N. Y. Exercising-machine ..	Mar. 16, 1875	576	187	7	445
163, 622	Allen, Benjamin, Trenton, N. J. School-seat	May 25, 1875	872	275	7	892
158, 351	Allen, Benjamin F., Boston, Mass. Printers' quoin	Jan. 5, 1875	1	1	7	9
162, 001	Same..... Chair	Apr. 13, 1875	367	124	7	631
162, 514	Same..... Varnish or coating for printers' inking-rolls	Apr. 27, 1875	883		7	712
	Allen, Burton, 2d., et al. (See Long, George S., assignor.)					
6, 706	Allen, Campbell, Albany, N. Y. Copy-slip for teaching penmanship	Oct. 19, 1875	733	241	8	684
161, 192	Same..... same	Mar. 23, 1875	878	288	7	494
	Allen, Charles G. (See Lufkin & Allen.)					
	Allen, Columbus H. (See Rupert, John B., assignor.)					
	Allen, Cotton H. (See Crenshaw, Thomas C., assignor.)					
161, 193	Allen, David, assignor to John M. Heath, Allegan, Mich. Plow-wheel	Mar. 23, 1875	879	288	7	494
	Allen, Edwin. (See Hills & Allen.)					
	Allen Fire Department Supply Company. (See Westland, Charles S., assignor.) ..					
168, 549	Allen, Frank H., Norwich, Conn. Locking-catch for revolvers	Oct. 11, 1875	233	77	8	605
171, 254	Allen, George A., Newark, N. J. Sleeve-button	Dec. 21, 1875	597	196	8	1045
	Allen, George H. (See Marshall, Horace B., assignor.)					
160, 377	Allen, H. Julien, Sturgis, Mich. Fruit-drier	Mar. 2, 1875	105	38	7	363
164, 706	Allen, Horace R., Indianapolis, Ind. Body-brace	June 22, 1875	830	270	7	1070
170, 217	Same..... Limb-receiver	Nov. 23, 1875	900	281	8	875
170, 655	Same..... Back and shoulder brace	Dec. 7, 1875	1	1	8	951
170, 656	Same..... Hip and thigh brace	Dec. 7, 1875	2	1	8	951
166, 243	Allen, Hosea, Titusville, Pa. Railway-rail joint	Aug. 3, 1875	53	17	8	206
168, 704	Same..... same	Oct. 11, 1875	374	{ 122 } 123	8	625
166, 740	Allen, Hosea, Titusville, Pa., assignor of part interest to G. Shamburg, E. G. Patterson, Jonathan Watson, and Robert L. Kernochan. Oil-stove	Aug. 17, 1875	549	168	8	293
167, 724	Allen, James A., Albion, assignor to self and Henry Osborn, Shendah, Mich. Wind-mill	Sept. 14, 1875	314	100	8	458
161, 373	Allen, James M., Baltimore, Md., assignor to Franklin B. Colton, Philadelphia, Pa. Explosive pile-driver	Mar. 30, 1875	1075	348	7	527
168, 314	Allen, John F., New York, N. Y. Riveting-machine	Oct. 5, 1875	1	1	8	565
167, 865	Allen, John F., New York, assignor to George T. Hope, Bay Ridge, and Charles T. Porter, New York, N. Y. Balanced valve	Sept. 21, 1875	463	146	8	487
	Allen, John H. (See Read & Allen.)					
165, 050	Allen, John R., Pittsburgh, Pa. Carbureter	June 29, 1875	1155	372	7	1120
167, 725	Allen, Joseph B., assignor of one-half interest to Bradford O. Irons, Linesville, Pa. Burglar-alarm	Sept. 14, 1875	315	{ 100 } 101	8	548

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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6, 269	Allen, Levi O., Gardiner, Me., assignor to James F. Almy and Jefferson B. Brackett, Salem, Mass. Sewing-machine caster (Reissue.)	Feb. 2, 1875	241	79	7	218
162, 332	Allen, Luther L., Monmouth, Me., assignor to Eastern Manufacturing Company, Elizabeth, N. J. Machine for coating fabrics	Apr. 20, 1875	684	223	7	678
162, 515	Allen, Mary S. (See Allen, Arthur M., assignor.)					
171, 206	Allen, Michael, Natick, Mass. Machine for lining pipes with cement	Apr. 27, 1875	884	283	7	712
163, 623	Same..... Hydrant.....	Dec. 21, 1875	553	181	8	1039
163, 959	Allen, Nelson R., Norwich, Conn. Camp-stool	May 25, 1875	873	275	7	892
161, 852	Allen, Nicholas I., assignor to George Draper & Son, Hopedale, Mass. Spool.....	June 1, 1875	100	34	7	945
167, 726	Allen, Norman, <i>et al.</i> (See Long, George S., assignor.)					
171, 335	Allen, Oscar M., Kalamazoo, Mich. Burial-casket	Apr. 13, 1875	239	80	7	615
168, 206	Allen, Richard H., <i>et al.</i> (See Allen, Anthony B., assignor) (Reissue.)					
169, 397	Allen, Robert T. P., Farmdale, Ky. Type-setting machine.....	Sept. 14, 1875	316	101	8	458
167, 051	Same..... Type-writing machine	Dec. 21, 1875	666	230	8	1054
165, 652	Allen, Samuel M., Dillsburgh, Pa. Clothes-pounder.....	Sept. 28, 1875	795	252	8	542
6, 288	Allen, S. H., <i>et al.</i> (See Schoonover, James S., assignor.)					
6, 289	Allen, Timothy, Fort Madison, Iowa. Washing-machine.....	Nov. 2, 1875	73	22	8	744
169, 397	Allen, Willard R., Galesburgh, Ill. Broom-making machine	Aug. 24, 1875	850	264	8	345
165, 652	Allen, William K., assignor to Benjamin F. Hill, Kansas City, Mo. Plow	July 20, 1875	522	159	8	105
6, 289	Allender, John, deceased, Thomas Allender, executor, and assignor, by mesne assignments, to Bailey Washing and Wringing Machine Company, Woonsocket, R. I. Wringing-machine..... (Reissue.)	Feb. 9, 1875	481	161	7	260
165, 653	Same..... same..... (Reissue.)	Feb. 9, 1875	482	161	7	260
159, 138	Allendorf, Lewis N., Poughkeepsie, N. Y. Automatic gate	July 20, 1875	523	159	8	105
165, 780	Allensworth, William. (See Argerbright & Allensworth.)					
166, 738	Allensworth, William, Troy, Ohio. Boiler-furnace.....	Jan. 26, 1875	770	253	7	152
169, 398	Alley, James P. (See Cordesman, Henry J., jr., assignor.)					
165, 780	Alley, Stephen, Glasgow, Scotland. Heat-indicator for journal-bearings.....	July 20, 1875	635	195	8	120
166, 738	Alliger, Richard D. (See Moore, Daniel and Edwin, assignors.)					
159, 881	Allis, Abram Q., Cleveland, Ohio. Oil-stove	Aug. 17, 1875	547	168	8	293
169, 398	Allison, Joseph W. (See Jones, George R. G., assignor.)					
163, 565	Allison, J. Wesley, <i>et al.</i> (See Browning, Joseph, assignor.)					
169, 398	Allison, T. Elwood, <i>et al.</i> (See Browning, Joseph, assignor.)					
163, 565	Allison, T. Elwood, Philadelphia, Pa. Advertising-apparatus	Feb. 16, 1875	619	205	7	282
158, 615	Allison, Wilham C., <i>et al.</i> (See Browning, Joseph, assignor.)					
162, 597	Allport, Walter W. (See Williams & Allport.)					
169, 398	Allred, John J., assignor to self and Alson G. Jordan, Charlotte, N.C. Eyeletting-machine	Nov. 2, 1875	74	22	8	744
163, 565	Alluisti, Venzazio. (See Barselotti & Alluisti) (Design.)					
158, 615	Allyn, Gordon S., Groton, Conn. Apparatus for treating or drying scraps or offal.....	May 25, 1875	817	259	7	885
162, 597	Allyn, Timothy F., Nyack, N. Y. Spring for railway-cars (Extension) ..	Jan. 14, 1875			7	180
160, 864	Almond, Thomas R., Fitchburgh, Mass. Traveler's lamp.....	Jan. 12, 1875	250	84	7	59
169, 398	Same..... Combined flask and packing-box	Apr. 27, 1875	952	306	7	720
163, 565	Almy, James F., <i>et al.</i> (See Allen, Levi O., assignor) (Reissue.)					
169, 398	Altheide, Joseph H. (See Moll & Altheide.)					
163, 565	Althouse, John A., New Harmony, Ind. Millstone-balance	Mar. 16, 1875	578	188	7	445
169, 398	Althouse, Milo J. (See Raymond, Albert and George, assignors.)					
159, 374	Altman, David, Nashville, Tenn. Shingle	Nov. 9, 1875	345	109	8	788
160, 741	Alverson, Andrew H., New Haven, Conn. Hook	Feb. 2, 1875	119	41	7	200
163, 131	Alvord, Clark, Binghamton, N. Y. Blacking for boots, &c.....	Mar. 16, 1875	465		7	431
164, 122	Alvord, Cornelius L., New York, N. Y. Spring-bed	May 11, 1875	383	124	7	805
160, 252	Alvord, Mary A., New York, N. Y. Spout-attachment for dumping-carts	June 8, 1875	272	93	7	979
158, 616	Alwood, Josiah K., Metz, Ind. Washing-machine.....	Mar. 2, 1875	1	1	7	340
160, 991	Amann, Charles H., Columbus, Ohio. Sectional dinner-pail	Jan. 12, 1875	251	84, 85	7	59
168, 076	Amazeen, Christopher, Boston, Mass. Paper bag	Mar. 23, 1875	696	229	7	471
169, 399	Same..... Carpet-lining	Sept. 28, 1875	669	213	8	525
169, 667	Same..... Paper bag	Nov. 2, 1875	75	22	8	745
171, 495	Amberg, William A., Chicago, Ill. Temporary binder.....	Nov. 9, 1875	346	109	8	7-8
	Same..... Letter-file cabinet	Dec. 28, 1875	833	{ 273 } { 274 }	{ 8 } { 8 }	1085
	Ambrose, David R. (See Jacobus & Ambrose.)					
	Am Ende, Charles G. (See Gahn, Henrik.)					
	American Art Foundry. (See Grasser & Steppasson.)					
	Same..... (See Grasser, Charles, assignor.)					
	American Butt Company. (See Sweetland, Nathan, assignor.)					
	American Button-Hole, Overseaming, and Sewing Machine Company. (See Rehfuß, George, assignor.)					
	American Cable Screw Wire Company. (See Goddu, Louis, assignor.)					
	Same..... same..... (Reissue.)					
	Same..... (See Rogers, Willard A., assignor.)					
	American Car-Fare Register Company. (See Imlay, Charles G., assignor.)					
	American Fire-Kindler Company. (See Husbands, Joseph D., jr., assignor) .. (Reissue.)					
	American Hot Rolled Shafting Company. (See Thomas, Leopold, assignor) .. (Reissue.)					
	American Invention Company. (See Mefford, David M., assignor.)					
	Same..... same..... (Reissue.)					
	American Linoleum Manufacturing Company. (See Walton, Frederick, assignor.)					
	American Mill and Metallurgical Company. (See Eames & Patchen, assignors.)					
	American Nickel Plating Company. (See Adams, Isaac, assignor) (Reissue.)					
	American Ring Company. (See Parker, Edward, assignor) (Reissue.)					
	Same..... (See Tucker, George W., assignor.)					
	American Screw Company. (See Worsley, Samuel L., assignor.)					
	American Steam and Water Recorder Company. (See Steele, Ferdinand, assignor.)					
	American Tube Works. (See Whitehouse, Thomas, assignor.)					
	American Watch Company. (See Woerd, Charles V., assignor.)					
164, 123	Amerman, Charles A., Hartford, Conn. Valve-gear for steam-engines	June 8, 1875	273	93	7	979
165, 525	Ames, Adelbert, Natchez, Miss. Fireman's extension-ladder	July 13, 1875	388	116	8	70
163, 433	Ames Iron Works. (See Morgan, William F., assignor.)					
164, 707	Ames, Josephine N., New York, N. Y. Corset	May 18, 1875	677	216	7	859
161, 086	Ames, William R., Nebraska City, Nebr. Hog-catching implement.....	June 22, 1875	831	270	7	1070
159, 375	Amidon, Charles H., Miller's Falls, Mass. Child's carriage.....	Mar. 23, 1875	781	257	7	482
170, 504	Amis, George. (See Barber & Amis.)					
	Amish, William C., Hainesport, N. J. Core-forming machine.....	Feb. 2, 1875	119	42	7	201
	Amole, John, Buckley, Ill. Milk-pail.....	Nov. 30, 1875	1175	371	8	923

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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163, 908	Amory, Jonathan, Boston, Mass. Car-heater and ventilator	June 1, 1875	59	20	7	938
165, 293	Amrock, Edward, and Chester Judson, West Newton, Mass. Mail-bag catch.....	July 6, 1875	135	41	8	27
169, 668	Ams, Max, New York, N. Y. Process of preserving caviar	Nov. 9, 1875	347	.....	8	788
162, 992	Amsden, Fayette M., Middleborough, and Marcus E. Amsden, Clinton, Mass. Indicator.....	May 11, 1875	258	83	7	789
	Amsden, Marcus E. (See Amsden, Fayette M. and Marcus E.)					
169, 506	Anders, George L., Boston, assignor to E. B. Welch, Cambridge, Mass. Magneto-printing telegraph	Nov. 2, 1875	163	54, 55	8	757
161, 194	Andersen, Christian, Brooklyn, N. Y. Filter.....	Mar. 23, 1875	879	289	7	494
170, 800	Anderson, Abraham, and Leander W. Goldy, Camden, N. J. Soldering-iron	Dec. 7, 1875	133	44	8	968
162, 877	Anderson, Adolph V., assignor of one-half interest to Manuel Ascheim, Virginia City, Nev. Car-coupling.....	May 4, 1875	127	42	7	763
165, 146	Anderson, August W., Lyon County, Nevada. Quartz-mortar.....	July 6, 1875	1	1	8	9
	Anderson, Charles. (See McCullough & Anderson.)					
164, 411	Anderson, Charles, Fettykil, North Britain, assignor of two-thirds interest to Pusey, Jones & Co., Wilmington, Del., and Carl Hofmann, Karlsruhe, Germany. Regulating and adjusting bands in driving machinery. (See Power & Anderson.)	June 15, 1875	558	{ 181 182 }	{ 7 7 }	1026
158, 822	Anderson, Edward W., Washington, D. C. Vehicle seat and body	Jan. 19, 1875	154	{ 151 152 }	{ 7 7 }	103
164, 956	Same..... Combined fork and skewer-pull	June 29, 1875	1078	347	7	1409
160, 070	Anderson, Hector, Durand, Wis. Sheer-boom	Feb. 23, 1875	812	267	7	315
169, 330	Anderson, Henry, Vallejo, Cal. Mandrel for broom-machines.....	Nov. 2, 1875	4	1	8	735
6, 275	Anderson, Henry, San Francisco, and James F. Houghton, Sacramento, Cal., assignors, by mesne assignments, to Henry Anderson and John B. Robinson. Broom-machine. (Reissue).....	Feb. 9, 1875	468	157	7	258
160, 502	Anderson, Isaac L., Lancaster, Mo. Wagon-axle and thimble-skein	Mar. 9, 1875	235	81	7	391
159, 293	Anderson, James, New York, N. Y. Ticket-printing machine.....	Feb. 2, 1875	45	17	7	191
162, 212	Anderson, James, Allegheny, Pa. Soda-water generator.....	Apr. 20, 1875	576	189	7	665
158, 563	Anderson, James A., Cleveland, Ohio. Car-truck	Jan. 12, 1875	202	69	7	53
164, 957	Anderson, James C., Pittsburgh, Pa. Spring bed-bottom.....	June 29, 1875	1079	347	7	1109
168, 122	Anderson, James T. L., Brooklyn, N. Y. Eyeglasses	Sept. 28, 1875	719	226	8	530
159, 139	Anderson, John, New York, N. Y. Gas-regulator	Jan. 26, 1875	770	253	7	152
163, 434	Anderson, John P., Philadelphia, Pa. Mill for grating cocoa-nuts	May 18, 1875	678	216	7	859
158, 823	Anderson, Magnus, Chicago, Ill. Corner for show-cases	Jan. 19, 1875	156	152	7	103
168, 077	Anderson, Valerius D., Springfield, Ohio. Boiler-feeder	Sept. 28, 1875	669	213	8	525
169, 758	Same..... Sectional steam-boiler	Nov. 9, 1875	445	{ 140 141 }	{ 8 8 }	800
166, 446	Anderson, William H., assignor of one-half interest to A. J. Pouch, Brooklyn, N. Y. Man-hole for oil-tanks.....	Aug. 10, 1875	270	81	8	245
170, 697	Same..... Man-hole cover for oil-tanks	Dec. 7, 1875	40	12	8	956
	Anderson, Wolf H. (See Jones, Harvey P., assignor.)					
6, 737	Anderton, John. (See Warfield, Oliver D., assignor.)					
166, 955	Andrew, William E., New York, N. Y. Process of rendering animal fats ... (Reissue) ..	Nov. 16, 1875	814	.....	8	856
	Same..... Method of making a substitute for butter from the oils of animal fats ..	Aug. 24, 1875	759	.....	8	332
164, 247	Andrews, Alfred H., et al. (See Jackson, David, assignor.)					
	Andrews, Benjamin, Philadelphia, Pa. Shawl or carrying strap-handle	June 8, 1875	385	131	7	994
	Andrews, Charles B., et al. (See Hauck, Samuel, Jr., assignor.)					
	Andrews, Cyrus F. (See Thurber, Albert E., assignor.)					
170, 324	Andrews, Edward P. S., Lisbon, Me. Swinging ship's berth	Nov. 23, 1875	996	312	8	889
158, 453	Andrews, Edwin F., assignor of two-thirds interest to Alfred W. Roper, Saint Louis, and Joseph D. Keebaugh, Glasgow, Mo. Brick machine.	Jan. 5, 1875	86	30, 31	7	21
170, 928	Andrews, Edwin F., assignor of three-fourths interest to Alfred W. Roper, Saint Louis, Joseph D. Keebaugh, Glasgow, and Sam. J. Conley, Columbia, Mo. Brick drier.....	Dec. 7, 1875	241	82, 83	8	982
	Andrews, Elisha W. (See Lockwood, Robert M., assignor.)					
159, 140	Andrews, Emanuel, Williamsport, Pa. Saw-handle	Jan. 26, 1875	771	254	7	152
165, 051	Same..... Handle for cross cut-saws	June 29, 1875	1156	372	7	1120
166, 837	Andrews, Emery, Welchville, Me. Machine for stripping leather-board, &c.....	Aug. 17, 1875	629	196	8	306
6, 276	Andrews, Emery, and William Tucker, Fiskedale, Mass., assignors, by mesne assignments, to Andrew and Samuel E. Spring and James C. Jordan, Portland, Me. Manufacture of matches..... (Reissue) ..	Feb. 9, 1875	469	157	7	258
158, 452	Andrews, H., New Haven, Conn. Parallel-ruler	Jan. 5, 1875	85	30	7	21
	Andrews, Herbert L., et al. (See Jackson, David, assignor)					
164, 124	Andrews, Herbert L., Chicago, Ill. Trunk-stay	June 8, 1875	274	93	7	979
164, 248	Same..... School desk and seat.....	June 8, 1875	386	131	7	994
	Andrews, Isaac R., et al. (See West, Augustine C., assignor.)					
	Andrews, James. (See Eads & Andrews.)					
163, 960	Andrews, James, Detroit, Mich. Burglar-alarm	June 1, 1875	100	34	7	945
	Andrews, John T., 2d. (See Tarbox, Jerome L. and H. L., assignors)					
171, 496	Andrews, Randal T., assignor to Seth Thomas Clock Company, Thomaston, Conn. Lock-work attachment to clocks	Dec. 28, 1875	836	274	8	1085
163, 132	Andrews, Thomas, Jr., New York, N. Y., and Samuel C. Talcott, Ashtabula, Ohio. Device for holding artificial flowers in boxes	May 11, 1875	383	124	7	805
168, 596	Andrews, Tyler, assignor to self and Absalom Osbourne, Boston, Mass. Machinery for skiving counters for boots and shoes	Oct. 11, 1875	280	91	8	611
166, 838	Andrews, William H., assignor to Mallory, Wheeler & Co., New Haven, Conn. Padlock ..	Aug. 17, 1875	631	196	8	306
169, 074	Andrus, William, and Samuel J. Wallace, Keokuk, Iowa. Feed-water heater for steam-generators	Oct. 26, 1875	743	243	8	693
162, 516	Angel, Frank R., Los Angeles, Cal. Combined blotter, paper-cutter, and ruler	Apr. 27, 1875	885	283	7	712
169, 223	Angell, John G., New Orleans, La. Sugar cooling and draining apparatus	Oct. 26, 1875	879	286	8	712
160, 992	Angers, John, Dallas, Tex. Rattooning-cutting machine	Mar. 23, 1875	697	229	7	471
162, 787	Angle, Lewis M., Chicago, Ill. Foot-rest	May 4, 1875	49	15	7	753
	Anglin, Calton G. (See Lunday & Anglin)					
167, 866	Angus, John, assignor of two-thirds interest to James S. and Frederick H. Hall, Calais, Me. Process of tanning hides and skins	Sept. 21, 1875	464	.....	8	487
168, 955	Annin, James B., Rochester, N. Y. Differential gear for traction-engines	Oct. 19, 1875	611	203	8	667
169, 759	Annin, James B., and John A. Nutt, Rochester, N. Y., assignors to Elihu J. Granger, Brooklyn, N. Y. Veneer-cutting machine	Nov. 9, 1875	446	141	8	801
162, 735	Annin, Joseph, Brooklyn, N. Y. Spring-hinge	May 4, 1875	1	1	7	747
159, 626	Ansart, Charles B., Oil City, Pa. Tooth-polishing attachment for dental engines.....	Feb. 9, 1875	361	120	7	243
159, 013	Ansley, George W., Marshall, Mich. Cartridge-loading device.....	Jan. 26, 1875	663	217	7	137
	Anthes, Frederick. (See Brown, Charles H., assignor.)					
160, 807	Anthes, Frederick, assignor to Theodore Wenk and Samuel Leber, New York, N. Y. Ash-sifter	Mar. 16, 1875	533	173	7	439
171, 255	Anthoine, James W., Miller's Falls, Mass. Angular bit-stock	Dec. 21, 1875	598	196	8	1045

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Anthony & Co., E. & H. T. (See Anthony, Henry T., assignor.)					
	Same..... (See Barker, Erastus B., assignor.)					
	Same..... (See Lewis, William H., assignor.)					
8, 272	Anthony, Benjamin M., assignor to Michigan Stove Co., Detroit, Mich. Stove. (Design)	Apr. 20, 1875			7	651
161, 730	Anthony, Edward, and Jesse Beadle, Shickshinny, assignors of one-third interest to Edward Price, jr., Scranton, Pa. Compound for welding steel	Apr. 6, 1875	122		7	586
170, 042	Anthony, Henry T., assignor to E. & H. T. Anthony & Co., New York, N. Y. Photograph-album	Nov. 16, 1875	710	225	8	843
	Anthony, Rowland C. (See Yerington, Henry W., assignor.)					
171, 465	Appleby, John F., Beloit, Wis. Grain-binder	Dec. 28, 1875	799	263	8	1081
162, 002	Appleby, John F., assignor of one-half interest to E. D. Bishop, Mazomania, Wis. Harvester-rake	Apr. 13, 1875	368	124	7	632
161, 651	Appleby, Remsen, Perth Amboy, N. J. Cigar-mold	Apr. 6, 1875	55	20	7	577
165, 911	Appleby, Remsen, New York, N. Y. Cigar-machine	July 27, 1875	779	239	8	153
160, 138	Appleby, Stephen V., Spotswood, N. J. Treating chewing-tobacco	Feb. 23, 1875	866		7	324
161, 087	Applegate, John H., and Charles B. Webb, Philadelphia, Pa. Sewing-machine	Mar. 23, 1875	782	257	7	482
169, 331	Appleton, Charles J., Philadelphia, Pa. Knitting-machine	Nov. 2, 1875	5	2	8	735
169, 943	Same..... Knitting-machine needle	Nov. 16, 1875	630	195	8	831
171, 466	Appleton, Charles J., Elizabeth, N. J. Knitting-machine	Dec. 28, 1875	801	264	8	1081
164, 125	Appley, Franklin G., Providence, R. I. Mousing-hook	June 8, 1875	274	94	7	979
163, 291	Ara, Alberto, and Mario Del Bubba, Florence, Italy. Preserving metals from oxidation	May 18, 1875	551		7	843
163, 719	Arandall, Charles, and William C. Runyan, Marathon, Ohio. Fly-trap	May 25, 1875	949	301	7	902
158, 666	Archbold, Samuel, Chester, Pa. Compound engine	Jan. 12, 1875	296	160	7	65
	Archer, George A., et al. (See Archer, William S., assignor.)					
8, 440	Archer, George W., Rochester, N. Y. Piano-stool. (Design)	June 29, 1875			7	1098
158, 880	Archer, George W., Rochester, N. Y. Dentist's chair	Jan. 19, 1875	505	169	7	109
171, 207	Archer, Horace S., assignor to George W. Wentworth, Haverhill, Mass. Combined shoulder-braces and suspenders	Dec. 21, 1875	554	181	8	1039
161, 993	Archer, William S., assignor of three-fourth interest to Charles B. Clegg, E. Morgan Wood, and George A. Archer. Horse hay-rake	Mar. 23, 1875	667	230	7	471
	Ardry, John. (See Darling, William H., assignor.)					
168, 443	Arend, George, Brooklyn, N. Y. Manufacture of sugar toy watches and chains	Oct. 5, 1875	108	37	8	581
159, 627	Argerbright, Daniel, Troy, Ohio. Ladder	Feb. 9, 1875	362	120	7	243
163, 436	Same..... Vehicle-seat lock	May 18, 1875	679	217	7	859
159, 141	Argerbright, Daniel, and William Allensworth, Troy, Ohio. Smoke-consuming furnace	Jan. 26, 1875	772	254	7	152
160, 378	Same..... Furnace for consuming smoke	Mar. 2, 1875	107	39	7	364
161, 731	Armbrust, John D. M., Apollo, Pa. Boiler washing-machine	Apr. 6, 1875	122	43	7	586
	Armbruster, Jacob H. (See Ellis, Joseph W., assignor.)					
	Same..... (See Fewkes, Joseph T., assignor.)					
163, 961	Armiger, Richard, Baltimore, Md. Refrigerating-car	June 1, 1875	101	35	7	945
170, 325	Armitage, Edward, Philadelphia, Pa. Oscillating bed-stone	Nov. 23, 1875	997	313	8	889
	Armor, Robert R. (See Hoffman, John L., assignor.)					
161, 318	Armour, John M., Northwood, Ohio. Windmill	Mar. 30, 1875	1819	333	7	321
170, 326	Same..... Wind-power	Nov. 23, 1875	998	313	8	889
165, 654	Arms, Charles, South Deerfield, Mass. Pocket-book	July 20, 1875	524	160	8	105
164, 249	Arms, James C., Northampton, Mass. Photograph-album	June 8, 1875	387	131	7	994
169, 610	Arms, John L., assignor of part interest to Granville R. Ober and William H. Renaud, New Orleans, La. Railway-switch	Nov. 9, 1875	287	93	8	781
162, 003	Armstrong, Augustin B., Dorset, Vt. Cheese-vat	Apr. 13, 1875	370	124	7	632
162, 789	Armstrong, Daniel, and John A. Hutchinson, Chicago, Ill. Machine for finishing horse-shoe-nails	May 4, 1875	51	16, 17	7	753
163, 437	Armstrong, Edward, assignor to self and James R. Hutchinson, Allegheny, Pa. Slide-valve for steam-engines	May 18, 1875	680	217	7	860
162, 788	Armstrong, Elvin, Jerseyville, Ill. Bee-hive	May 4, 1875	50	16	7	753
170, 698	Same..... Same	Dec. 7, 1875	41	12	8	956
	Armstrong, Frank. (See Carroll, Thomas J., assignor.)					
	Same..... (See House, Henry A., assignor.)					
171, 209	Armstrong, Frank, Bridgeport, Conn. Barbed fence-wire	Dec. 21, 1875	554	181	8	1039
168, 550	Armstrong, Frank, and George Doolittle, Bridgeport, Conn.; said Doolittle assignor to said Armstrong. Barbed fence-wire	Oct. 11, 1875	233	77	8	605
	Armstrong, Fred S., et al. (See Farmer, David J. and Samuel, assignors.)					
168, 078	Armstrong, George, Elmira, Ill. Husking-pin	Sep. 28, 1875	570	213	8	525
	Armstrong, Hartley K., et al. (See Farmer, David J. and Samuel, assignors.)					
164, 959	Armstrong, James, Toledo, Ohio. Feed-water heater for steam-boilers	June 29, 1875	1080	343	7	1109
166, 328	Armstrong, James, Cambridge, Mass. Book-backing machine	Aug. 3, 1875	129	40	8	217
166, 329	Same..... Book-sewing machine	Aug. 3, 1875	131	41	8	218
	Armstrong, James A. (See Christie, James J., assignor.)					
170, 430	Armstrong, John B., Guelph, Canada. Furnace for heating steel in tempering	Nov. 30, 1875	1107	349	8	913
6, 364	Armstrong, Thomas, Hamilton Canada. Hoof-spreader. (Reissue)	Apr. 6, 1875	232	77	7	602
	Arnao, José F. (See Arnao, Juan, José F., and Juan, jr.)					
159, 738	Arnao, Juan, José F., and Juan, jr., Brooklyn, N. Y. Fire-escape	Feb. 16, 1875	485	163	7	265
164, 631	Arndt, Samuel, and Wallace S. Ayres, Easton, Pa. Pump	June 22, 1875	757	249	7	1061
167, 381	Arnold, Benjamin F., Westerly, R. I. Stop-motion for looms	Sept. 7, 1875	2	1	8	407
	Arnold, Daniel H. (See Jenks, Henry F., assignor)					
	Arnold, Don Juan, Brownville, Nebr. Earth-auger	Mar. 30, 1875	1076	349	7	527
164, 790	Arnold, Francis, Chatham, Conn. Bell-toy	June 22, 1875	901	293	7	1050
165, 526	Arnold, Hudson H. C., Nicholasville, Ky. Animal-trap	July 13, 1875	390	116	8	70
164, 898	Arnold, Irving, Fitchburgh, Mass. Friction-clutch	June 29, 1875	1025	331	7	1103
171, 336	Arnold, John, Newark, N. J. Shutter-fastener	Dec. 21, 1875	668	220	8	1054
170, 929	Arnold, John C., Whitinsville, Mass. Spindle for spinning-machines	Dec. 14, 1875	261	87	8	993
158, 774	Arnold, Philip, Elizabethtown, Ky. Horse-detacher	Jan. 19, 1875	409	137	7	97
	Arnold, Seth. (See Chilson Libbeus, assignor.)					
161, 652	Arnold, Stephen D., assignor to P. and F. Corbin, New Britain, Conn. Fastener for meeting-rails of sashes	Apr. 6, 1875	55	20	7	577
164, 126	Same..... Bell-pull	June 8, 1875	275	94	7	979
164, 958	Arnold, Thomas R., Knoxborough, N. Y. Harvester-cutter	June 29, 1875	1080	347	7	1109
171, 078	Arnold, Wilbur F., Winthrop, Conn. Screw for knobs	Dec. 14, 1875	399	132	8	1011
159, 060	Arrants, John B., Society Hill, S. C. Bale-tie	Jan. 26, 1875	702	231	7	142
163, 133	Arrants, John B., Society Hill, assignor to Charles G. Matthews, Charleston, S. C. Bale-tie	May 11, 1875	384	124	7	805
	Arras, John D. (See Reiz, Nickolaus, assignor.)					
160, 071	Arrick, Clifford, Washington, D. C. Projectile for ordnance	Feb. 23, 1875	813	267	7	315
164, 668	Arrowsmith, George, Buffalo, N. Y. Turbine water-wheel	June 22, 1875	791	259	7	1065
163, 435	Arthur, Charles M., and James Bentley, Birmingham, Conn. Paper box	May 18, 1875	679	216	7	859
	Asby, William. (See Outson, Jacob P., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 503	Ascheim, Manuel. (See Anderson, Adolph V., assignor.)					
166, 839	Ascough, William, Buffalo, N. Y. Combined bevel, try-square, and dividers.....	Mar. 9, 1875	236	81	7	391
	Same..... Propelling mechanism for boats.....	Aug. 17, 1875	632	{ 196 197 }	{ 8 8 }	306
163, 438	Ash & Brother, Louis. (See Ash, Benjamin, assignor.)					
	Ash, Benjamin, assignor to Louis Ash & Brother, New York, N. Y. Cigar-box.....	May 18, 1875	681	217	7	860
160, 742	Ash, J. E., et al. (See Perry, John L., assignor.)					
163, 962	Ash, John S., Buckingham, Pa. Pump.....	Mar. 16, 1875	465	153	7	431
	Ashbourne, Alexander P., Oakland, Cal. Process for preparing cocoa-nut for domestic use.....	June 1, 1875	102	.....	7	945
170, 460	Same..... Biscuit-cutter.....	Nov. 30, 1875	1133	357	8	916
169, 669	Ashcraft, Jacob, Frazeysburgh, Ohio. Mowing-machine.....	Nov. 9, 1875	348	{ 109 110 }	{ 8 8 }	788
	Ashcroft, Charles E. (See Kendall, James, assignor.)					
167, 210	Ashcroft, Edward H. (See Ashcroft, John, assignor.)					
6, 652	Ashcroft, Edward H., Boston, Mass. Furnace-door.....	Aug. 31, 1875	1022	317	8	376
6, 653	Ashcroft, Edward H., Lynn, assignor, by mesne assignments, to R. A. Ballou, Boston, Mass., assignor to Edward H. Ashcroft. Railway-car heater..... (Reissue.)	Sept. 21, 1875	664	210	8	516
	Ashcroft, Edward H., Lynn, assignor, by mesne assignments, to R. A. Ballou, Boston, Mass. Fire-extinguisher..... (Reissue.)	Sept. 21, 1875	665	211	8	516
162, 335	Ashcroft, Edward H., Boston, Mass., assignor of one-half interest to John Ashcroft, Brooklyn, N. Y. Furnace-door.....	Apr. 20, 1875	687	224	7	679
	Ashcroft, John. (See Ashcroft, Edward H., assignor.)					
162, 333	Ashcroft, John, Brooklyn, N. Y., assignor of one-half interest to Edward H. Ashcroft, Boston, Mass. Furnace-door.....	Apr. 20, 1875	685	223	7	679
162, 334	Same..... same.....	Apr. 20, 1875	686	224	7	679
164, 127	Ashley, Frederick, Brooklyn, N. Y. Car-starter.....	June 8, 1875	275	94	7	979
	Ashley, James N., et al. (See Pope, Frank L., assignor.)..... (Reissue.)					
162, 878	Ashworth, Harvey T., assignor to self and James T. Graves, Berger's Store, Va. Mill-stone dress.....	May 4, 1875	128	42	7	764
	Askew, Aaron O. (See Ellyson & Askew.)					
163, 624	Askie, John W., Melrose, Mass. Stop-motion for machinery.....	May 25, 1875	874	275	7	892
169, 131	Same..... Corset.....	Oct. 26, 1875	801	260	8	700
166, 956	Askwith, John, Chicago, Ill. Oil-can.....	Aug. 24, 1875	760	235	8	332
161, 319	Astalt, Christoph, New York, N. Y. Bed-lounge.....	Mar. 30, 1875	1021	333	7	521
165, 196	Aston, John B., Pittsburgh, Pa. Mode of blackwashing molds.....	July 6, 1875	54	16	8	16
171, 543	Aston, William E., Brooklyn, N. Y. Buckle.....	Dec. 28, 1875	877	287	8	1091
	Atchison, T. A. (See Rodes, Tyree, assignor.)					
166, 059	Atha, Benjamin, Newark, N. J. Clasp for uniting webs of cloth for japanning.....	July 27, 1875	918	284	8	171
	Atherton, Abel T., et al. (See Labounty, Leonard J., assignor.)					
168, 207	Atherton, Abel T. (See Whitehead & Atherton.)					
	Atherton, Galen P., assignor of one-half interest to Sherman Fletcher, Worcester, Mass. Corner-bead for plastering.....	Sept. 28, 1875	795	253	8	542
159, 739	Atkeson, George A. (See Wroth, Alfred B., assignor.)					
164, 708	Atkins, Andrew A., Saint Petersburg, Pa. Fluid-ejector.....	Feb. 16, 1875	486	163	7	265
171, 337	Atkins, Carroll J., Louisiana, Mo. Draw-bridge fastening.....	June 22, 1875	832	271	7	1071
166, 676	Atkins, Elias C., Indianapolis, Ind. Crosscut-saw handle.....	Dec. 21, 1875	668	220	8	1054
165, 197	Atkins, Jearum, Washington, D. C. Water-wheel.....	Aug. 10, 1875	465	143	8	273
	Atkinson, Edward, Brookline, and Ernest Edwards, Boston, Mass. Top-roll covering for drawing and spinning frames.....	July 6, 1875	55	16	8	16
	Atkinson, George, et al. (See Wroth, Alfred B., assignor.)					
159, 376	Atkinson, George, San Francisco, Cal. Rock-drilling machine.....	Feb. 2, 1875	120	42	7	201
170, 801	Atkinson, James M., Pittsburgh, Pa. Fire-place heater.....	Dec. 7, 1875	134	44	8	968
170, 979	Same..... Street-railway-rail chair.....	Dec. 14, 1875	311	103	8	999
170, 461	Atkinson, James S., Pittsburgh, assignor to Benjamin F. Jones, Allegheny, Pa. Straightening-machine.....	Nov. 30, 1875	1134	358	8	916
	Atkinson, William D., jr. (See Jones, Charles P., assignor.)..... (Reissue.)					
	Atlantic Refining Company, et al. (See Perkins, George H., assignor.)					
	Atterbury, James S. (See Atterbury, Thomas B., assignor.)					
8, 220	Same..... same..... (Design.)					
8, 450	Atterbury, James S. and Thomas B., Pittsburgh, Pa. Salt-cellar..... (Design.)	Mar. 23, 1875	.....	.....	7	466
8, 827	Same..... Glass dish for table use..... (Design.)	July 6, 1875	.....	.....	8	3
164, 669	Same..... Glass dish..... (Design.)	Dec. 7, 1875	.....	.....	8	945
	Same..... Lamp.....	June 22, 1875	792	259	7	1065
	Atterbury, Thomas B. (See Atterbury, James S., and Thomas B.)					
	Same..... same..... (Design.)					
159, 628	Atterbury, Thomas B., Pittsburgh, Pa. Covered glassware.....	Feb. 9, 1875	363	121	7	243
8, 232	Atterbury, Thomas B., assignor of one-half interest to James S. Atterbury, Pittsburgh, Pa. Pitcher..... (Design.)	Mar. 30, 1875	.....	.....	7	516
8, 673	Atterbury, Thomas B., assignor to self and James S. Atterbury, Pittsburgh, Pa. Lamp shade and chimney..... (Design.)	Oct. 5, 1875	.....	.....	8	560
8, 866	Atterbury, Thomas B., assignor to J. S. and T. B. Atterbury, Pittsburgh, Pa. Glass shade..... (Design.)	Dec. 28, 1875	.....	.....	8	1076
159, 061	Atterbury, Thomas B., assignor of one-half interest to James S. Atterbury, Pittsburgh, Pa. Mold for and process of manufacturing glass articles.....	Jan. 26, 1875	703	231	7	142
164, 632	Same..... Glass-annealing oven.....	June 22, 1875	758	249	7	1061
168, 863	Same..... Mold for pressing glass lamp-chimneys.....	Oct. 19, 1875	528	173	8	655
170, 218	Same..... Manufacture of glassware.....	Nov. 23, 1875	900	281	8	875
170, 219	Atterbury, Thomas B., assignor to self and James S. Atterbury, Pittsburgh, Pa. Manufacture of lamps.....	Nov. 23, 1875	901	281	8	875
170, 431	Atterbury, Thomas B., assignor to Dithridge & Co., Pittsburgh, Pa. Tool for flaring and crimping lamp-chimneys, &c.....	Nov. 30, 1875	1108	349	8	913
170, 617	Atwater, John J., Medford, Minn. Grain-binder.....	Nov. 30, 1875	1284	406	8	936
159, 629	Atwood, Alfred N., Philadelphia, Pa. Compound for the manufacture of picture and similar frames.....	Feb. 9, 1875	364	.....	7	243
	Atwood, Eugene. (See Atwood, John E. and Eugene.)					
168, 597	Atwood, James B. (See Lamb, Watson F., assignor.)					
	Atwood, James B., Wilbraham, Mass. Nut-lock.....	Oct. 11, 1875	281	91	8	611
169, 507	Atwood, John E. (See Rabbeth & Atwood)..... (Reissue.)					
163, 956	Atwood, John E., Willimantic, Conn. Spinning-frame.....	Nov. 2, 1875	165	55	8	757
162, 004	Atwood, John E., Mansfield, and Eugene Atwood, Willimantic, Conn. Device for securing and adjusting spinning-rings.....	Oct. 10, 1875	612	203	8	668
163, 439	Atwood, Lewis J., assignor to Plume & Atwood Manufacturing Company, Waterbury, Conn. Lamp-burner.....	Apr. 13, 1875	371	124	7	632
	Same..... same.....	May 18, 1875	681	217	7	860

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
169, 132	Atwood, Loring, Rutland, Vt., assignor of one-half interest to Henry A. Hale, Brooklyn, N. Y. Dovetailing-machine.....	Oct. 26, 1875	802	260	8	701
169, 944	Same.....Chair-seat.....	Nov. 16, 1875	631	196	8	831
166, 579	Atwood, William, Cape Elizabeth, Me. Washing-machine.....	Aug. 10, 1875	378	117	8	261
164, 508	Aub, Philip D., assignor of one-half interest to Asa Heinemann, New York, N. Y. Play- ing-card.....	June 15, 1875	641	207	7	1036
167, 290	Aubery, Albert C. (See Lewis, Mark M., assignor.) Aubin, Jules, Paris, France. Mill.....	Aug. 31, 1875	1089	342	8	385
159, 377	Auel, Henry. (See Casey, Auel, and Johnson.) Aughe, Silas S., Dayton, Ohio. Plow.....	Feb. 2, 1875	121	42	7	201
168, 598	Augspurger, John, Trenton, Ohio. Land-marker.....	Oct. 11, 1875	281	91	8	611
162, 736	Aultman & Co., C. (See Miller, Lewis, and Jacob, assignors)..... (Reissue.) Aurocker, Thomas H., Philadelphia, Pa. Annunciator.....	May 4, 1875	1	1	7	747
169, 611	Austin, David F., Geddes, N. Y. Door-lock.....	Nov. 9, 1875	288	93	8	781
164, 633	Austin, Emmet R., Norwalk, Conn. Chain-propeller.....	June 22, 1875	759	249	7	1061
171, 338	Austin, James E., assignor to Ionia Shingle Machine Manufacturing Company, Ionia, Mich. Machine for edging shingles.....	Dec. 21, 1875	669	221	8	1054
161, 922	Austin, Jonathan. (See Covell, William H.)..... (Reissue.) Austin, Kenneth S., assignor to Beuther's Railway Axle Box Company, Birmingham, England. Car-axle box.....	Apr. 13, 1875	307	102	7	623
163, 440	Austin, Samuel. (See Steel & Austin.) Austin, Stephen J., Saint Louis, Mo. Platform-scales.....	May 18, 1875	682	218	7	860
169, 332	Austin, Theodore N. (See Rimes, Adam, assignor.) Austin, William J., Hortonsville, Wis. Feed-water heater for steam-boilers.....	Nov. 2, 1875	6	2	8	735
167, 867	Autenrieth, William, Cincinnati, Ohio. Club-foot shoe.....	Sept. 21, 1875	464	147	8	487
160, 865	Automatic Boiler Feeder Company. (See Cook, Silas, assignor)..... (Reissue.) Automatic Boiler Feeder Manufacturing Company. (See Cook, Silas, assignor.) Averill, Edward W., assignor of one-fourth interest to Horace Barnard, New York, N. Y. Shirt-stud.....	Mar. 16, 1875	578	188	7	445
164, 250	Avery, Benjamin F. (See Wiard, Edward, assignor.) Avery, Dexter, Westfield, Mass. Circular-weaving loom.....	June 8, 1875	387	131	7	994
163, 441	Avil, John D., Philadelphia, Pa. Heating-stove.....	May 18, 1875	683	218	7	860
6, 399	Ax, Christian, et al. (See Cussen, William J., assignor)..... (Design.) Axthelm, Ernst, Pittsburgh, Pa. Self-closing annunciator..... (Reissue)...	Apr. 27, 1875	1094	{ 346 347 }	{ 7 7 }	737
167, 491	Ayer, John M. (See Harris & Ayer.) Ayer, John M., Chicago, Ill. Apparatus for manufacturing heating-gas.....	Sept. 7, 1875	95	30	8	420
6, 371	Ayers, Edward M. (See Gaylord & Ayers.) Ayers, Samuel, and Henry J. Chamberlin, Worcester, assignors, by mesne assignments, to Edward P. Woods, Daniel Sherwood, and Cyrus H. Latham, Lowell, Mass. Wire toaster or broiler..... (Reissue)...	Apr. 13, 1875	490	161	7	647
163, 134	Ayres, Jared A., Hartford, Conn. Operating-valve.....	May 11, 1875	385	124	7	805
168, 957	Ayres, Samuel, Richmond, Va. Truss.....	Oct. 19, 1875	613	203	8	668
162, 005	Ayres, Wallace S. (See Arndt & Ayres.) Azbill, Ross I., Edwardsport, Ind. Axle-skein for wagons.....	Apr. 13, 1875	372	125	7	632
161, 923	Baader, Georg, Pittsburgh, Pa. Fountain-pen.....	Apr. 13, 1875	308	102	7	624
162, 879	Baader, Johann G., Saint Vincent's, Pa. Car-coupling.....	May 4, 1875	128	42, 43	7	764
167, 291	Babbitt, Benjamin T. (See Johnson, Chester L., assignor.) Babbitt, Benjamin T., administrator. (See Otis, Elisha G.)..... (Extension.) Babbitt, Benjamin T., New York, N. Y. Furnace.....	Aug. 31, 1875	1089	342	8	385
167, 292	Same.....Sectional boiler.....	Aug. 31, 1875	1090	342	8	386
170, 327	Same.....Elevator.....	Nov. 23, 1875	1000	313	8	889
170, 328	Same.....Bucket-wheel for rotary engines.....	Nov. 23, 1875	1001	314	8	890
162, 006	Babbitt, S. William, assignor to Wilcox Silver Plate Company, West Meriden, Conn. Toilet-caster.....	Apr. 13, 1875	373	125	7	632
164, 128	Babbitt, S. William, West Meriden, Conn. Sirup-pitcher.....	June 8, 1875	277	95	7	979
169, 224	Babbitt, S. William, and Henry B. Beach, assignors to Wilcox Silver Plate Company, West Meriden, Conn. Spoon-holder.....	Oct. 26, 1875	880	286	8	712
163, 349	Babcock, Charles A. (See Washburn, Pliny E., assignor.) Babcock, George H. (See Denio & Babcock)..... (Reissue.) Babcock, Henry C., and Louis M. Morrison, Bennington, Vt. Metallic counter-support for boots and shoes.....	May 13, 1875	608	194	7	850
6, 743	Babcock, Jabez K., Phelps, N. Y., assignor to Hartford Pump Company. Windmill. (Reissue).....	Nov. 16, 1875	820	258	8	857
164, 899	Babcock, Jabez K., Phelps, N. Y. Heating-stove.....	June 29, 1875	1026	331	7	1163
171, 079	Babcock, James F., assignor of one-half interest to Flavius O. Beal, Bangor, Me. De- vice for cooling and ventilating railway-cars.....	Dec. 14, 1875	400	133	8	1011
158, 454	Babcock Manufacturing Company. (See Kley & Higgins, assignors.) Babcock, Nathan, et al. (See Firm, Joseph L., assignor)..... (Reissue.) Babcock, Sylvester P., Adrain, Mich. Saw-clamp.....	Jan. 5, 1875	90	31	7	22
167, 148	Babcock, William E., East Pembroke, N. Y. Potato-digger.....	Aug. 31, 1875	967	301	8	369
170, 043	Babcock, William H., Homer, N. Y. Combined blotter and paper weight.....	Nov. 16, 1875	710	225	8	843
158, 455	Babson, John, Boston, Mass., and John E. Mulford, New York, N. Y. Fire-shield.....	Jan. 5, 1875	90	3	7	22
164, 900	Bach, Jacques. (See Kranich & Bach.) Bach, Nicolas S., and Martin P. Bery, Boston, Mass. Reed-organ.....	June 29, 1875	1027	331	7	1103
164, 251	Bachelder, John, Gardiner, Me. Machine for cutting bungs.....	June 8, 1875	389	132	7	994
164, 129	Bachman, S. C. (See McCrosson, William, assignor.) Bachrach, David. (See Levy & Bachrach.) Backer, Henry, Union Hill, N. J. Running-gear.....	June 8, 1875	277	95	7	979
169, 400	Backofen, Frederick, assignor to self and Isaac H. Williams, Williamsburgh, N. Y. Curtain-fixture.....	Nov. 2, 1875	75	23	8	745
171, 256	Backus, Oscar J., Newark, N. J. Centrifugal water-wheel.....	Dec. 21, 1875	599	196	8	1045
171, 339	Same.....Machinist's oiler.....	Dec. 21, 1875	670	221	8	1054
160, 994	Backus, William H., Boston, Mass. Paper toy.....	Mar. 23, 1875	699	230	7	471
166, 741	Bacon, Charles R., and Leuthold C. Brown, assignors to Cornell Watch Company, San Francisco, Cal. Safety centre-pinion for watches.....	Aug. 17, 1875	550	168	8	293
161, 088	Bacon, Elisha, South Avon, N. Y. Lamp-stand.....	Mar. 23, 1875	783	{ 257 258 }	{ 7 7 }	482
170, 462	Bacon, Henri E., et al. (See Vanstone, Samuel, assignor.) Badger, George W., assignor to George P. Cox, Malden, Mass. Boot-tree.....	Nov. 30, 1875	1137	358	8	917
170, 980	Same.....Boring-machine.....	Dec. 14, 1875	312	104	8	999
170, 044	Badger, John, Belvidere, Ill. Horse-rake.....	Nov. 16, 1875	711	226	8	843
165, 466	Baer, Daniel W., assignor to William T. Miller, Richland Centre, Wis. Metal-punch- ing machine.....	July 13, 1875	340	99	8	62
	Baer, John H. (See Lefferts, John W., assignor.)					

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158,352	Bagley, Henry, Mechanicsville, Iowa. Corn-planter.....	Jan. 5, 1875	2	1	7	9
167,149	Bahruth, John, Liberty Prairie, Ill. Dropper for harvesters.....	Aug. 31, 1875	968	301	8	369
167,727	Baile, Charles P., New Windsor, Md. Dov. tailing-machine.....	Sept. 14, 1875	318	102	8	458
170,463	Bailey, Alfred M., Middlefield, Conn. Milking-pail.....	Nov. 30, 1875	1138	358	8	917
164,791	Bailey, Charles A., Cobalt, Conn. Toy.....	June 22, 1875	901	293	7	1080
164,509	Bailey, Clemon, assignor to self, T. A. Harvey, and James P. Bryan, Kinston, N. C. Fertilizer-distributor.....	June 15, 1875	642	208	7	1036
	Bailey, Daniel C. (See Halsey, Edward, assignor.)					
160,139	Bailey, David C., South Salem, Ohio. Churn.....	Feb. 23, 1875	867	286	7	324
	Bailey, David H. (See Jeans & Bailey.)					
164,359	Bailey, Dexter S., Dover, Me. Elevator.....	June 15, 1875	507	167	7	1019
168,599	Bailey, George C., Pittsburgh, Pa. Hydrant.....	Oct. 11, 1875	282	91	8	611
161,089	Bailey, George L., Portland, Me. Machine for rounding and backing books.....	Mar. 23, 1875	784	{ 258 259 }	{ 7 7 }	{ 482 482 }
	Bailey, George W. (See Long, Aaron, assignor.)					
165,052	Bailey, Gilbert S., Chicago, Ill., and Harris Pool, Monroe, Wis. Car-starter.....	June 29, 1875	1157	373	7	1120
6,783	Bailey, Hamilton, Harrisburgh, Pa. Dumping-wagon..... (Reissue)	Dec. 7, 1875	249	84	8	953
161,090	Bailey, Harry J., Pittsburgh, Pa. Air-compressing apparatus.....	Mar. 23, 1875	788	259	7	482
167,817	Same..... Shower and bath cock.....	Sept. 21, 1875	417	133	8	481
166,180	Bailey, Henry, New York, N. Y. Fire-tube for steam-boilers.....	Aug. 3, 1875	1	1	8	199
165,053	Bailey, James, Farmington, Me. Fruit-picker.....	June 29, 1875	1158	373	7	1120
	Bailey, John. (See Ewart, John, assignor.)					
169,670	Bailey, John H., Toledo, Iowa. Anti-sucking bit for calves, &c.....	Nov. 9, 1875	349	110	8	788
161,924	Bailey, John J., New York, N. Y. Velocipede.....	Apr. 13, 1875	308	103	7	624
	Bailey, Leonard. (See Miller & Bailey.)					
6,498	Bailey, Leonard, New Britain, Conn. Bench-plane..... (Reissue)	June 22, 1875	1013	327	7	1093
170,930	Same..... Safety rein-hold.....	Dec. 14, 1875	261	87	8	993
	Bailey, Otis G., et al. (See Matteson, Elisha, assignor.)					
162,598	Bailey, Ralph V. and Thomas B., Mendota, Ill. Pump-valve.....	Apr. 27, 1875	952	306	7	720
162,138	Bailey, Samuel R., Bath, Me., assignor to Edward A. Gillett, Boston, Mass., and Oscar S. Gillett, Buffalo, N. Y. Bending wood.....	Apr. 20, 1875	510	168	7	657
170,981	Bailey, Samuel R., assignor to Edward A. Gillett, Boston, Mass., and Oscar S. Gillett, Buffalo, N. Y. Wood-bending machinery.....	Dec. 14, 1875	314	104	8	999
8,257	Bailey, Thomas A., Philadelphia, Pa. Toy money-box..... (Design)	Apr. 6, 1875			7	564
	Bailey, Thomas B. (See Bailey, Ralph V. and Thomas B.)					
	Bailey Tool Company. (See Williams, David F., assignor.)					
	Bailey Washing and Wringing Machine Company. (See Allender, John).... (Reissue.)					
	Bailey Wringing Machine Company. (See Wiswall, Samuel, assignor).... (Reissue.)					
162,880	Baillie, William L., Baltimore, Md. Soldering-machine.....	May 4, 1875	130	43	7	764
167,868	Baily, Mifflin W., assignor to self and R. J. Baldwin, Pottstown, Pa. Heater.....	Sept. 21, 1875	465	147	8	488
8,200	Bainbridge, Henry C., Brooklyn, N. Y. Writing-paper..... (Design)	Nov. 9, 1875			7	387
	Baird & Riley. (See Riley, Isaac, assignor.)					
163,625	Baird, Ariette, Riverhead, N. Y. Combined baby tender and crib.....	May 25, 1875	874	275	7	892
167,970	Baird, David W., Geneva, N. Y. Hub-band.....	Sept. 21, 1875	541	174	8	500
159,142	Baird, George W., U. S. N. Aerating and cooling apparatus.....	Jan. 26, 1875	774	254	7	152
169,612	Baird, George W., U. S. N., and Jos. C. Lewis, Washington, D. C. Pneumatic steering apparatus for ships.....	Nov. 9, 1875	289	93	8	781
169,333	Baird, James, Allegheny, Pa. Machine for bending chain-links.....	Nov. 2, 1875	7	2	8	735
159,740	Baird, Samuel J., Richmond, Va. Button-holing attachment for sewing-machines.....	Feb. 16, 1875	486	164	7	265
160,294	Bake, Cyrus F., Young America, Ill. Car-coupling.....	Mar. 2, 1875	33	13	7	353
168,079	Baker, Albert, Westfield, Pa. Addressing-machine.....	Sept. 28, 1875	671	213	8	525
161,853	Baker, Albert S., Somerville, Mass. Ear-ring.....	Apr. 13, 1875	248	80	7	615
	Baker Brothers & Co. (See Langwell, William, assignor.)					
	Baker, Charles E. (See Scholfield, Socrates, assignor.)					
164,412	Baker, Charles R., East Cambridge, Mass. Mode for arranging bristles for brushes.....	June 15, 1875	559	182	7	1025
168,363	Same..... Paint-brush.....	Oct. 5, 1875	40	15	8	570
163,836	Baker, David, assignor of one-half interest to Willard L. Humphrey, Boston, Mass. Mariner's compass.....	June 1, 1875	1	1	7	931
163,837	Same..... same.....	June 1, 1875	2	1	7	931
163,838	Same..... same.....	June 1, 1875	3	1	7	931
163,839	Same..... same.....	June 1, 1875	4	2	7	931
163,840	Same..... same.....	June 1, 1875	5		7	931
162,881	Baker, D. Howard, Boston, Mass. Bill-file.....	May 4, 1875	131	43	7	764
165,527	Baker, George W., Wilmington, Del. Cracker-machine.....	July 13, 1875	391	117	8	70
170,802	Baker, Halsey H., Plainfield, N. J. Cutter-head for planing-machines.....	Dec. 7, 1875	134	44	8	968
165,699	Baker, Harrison J., Chicago, Ill. Piano-forte case.....	July 20, 1875	563	172	8	110
	Baker, Hayden M. (See Holliday & Baker.)					
8,373	Baker, Horace Z., Providence, R. I. Newspaper-rack..... (Design)	June 8, 1875			7	968
168,123	Baker, James C., Corry, Pa. Churn.....	Sept. 28, 1875	719	226	8	530
8,820	Baker, James H., et al. (See Harwood, George D., assignor.)					
	Baker, John G., assignor to Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Toy money-box..... (Design)	Dec. 7, 1875			8	945
162,007	Baker, John G., assignor to Enterprise Manufacturing Company, Philadelphia, Pa. Cutting instrument.....	Apr. 13, 1875	373	125	7	632
162,008	Same..... Manufacture of iron mill-burrs.....	Apr. 13, 1875	374	125	7	632
162,009	Same..... Carriage-jack.....	Apr. 13, 1875	375	126	7	632
171,080	Baker, Jonathan D., Burlington, Vt. Machine for pressing tampico.....	Dec. 14, 1875	401	133	8	1011
161,586	Baker, Lewis L., Minneapolis, Minn. Car-coupling.....	Apr. 6, 1875	1	1	7	569
6,263	Baker, Loring J., Boston, Mass., assignor to Hezekiah Bradford. Sash-holder..... (Reissue)	Feb. 2, 1875	235	77	7	217
	Baker, Nathap T., et al. (See Rawson, George W., assignor.)					
160,295	Baker, Owen T., Wamego, Kans. Car-coupling.....	Mar. 2, 1875	34	13	7	353
162,236	Baker, Owen T., assignor of one-half interest to Oscar M. Gay, Wamego, Kans. Car-coupling.....	Apr. 20, 1875	688	221	7	679
162,337	Same..... Wagon-brake.....	Apr. 20, 1875	689	224	7	679
163,135	Same..... Scales.....	May 11, 1875	386	125	7	805
171,340	Same..... Wagon-brake.....	Dec. 21, 1875	670	221	8	1054
166,580	Baker, Seth W., Providence, R. I. Water-proof hose.....	Aug. 10, 1875	379	117	8	261
169,760	Same..... same.....	Nov. 9, 1875	447	141	8	801
170,803	Same..... Hydraulic hose.....	Dec. 7, 1875	135	45	8	968
165,781	Baker, Thomas F., Saint Louis, Mo. Iron mantel.....	July 20, 1875	636	195	8	121
165,700	Baker, William C., New York, N. Y. Electric boiler alarm and register.....	July 20, 1875	564	172	8	110
167,211	Same..... Valve for steam-radiators.....	Aug. 31, 1875	1023	318	8	376
167,293	Baker, William H., Lisle, N. Y. Breech-loading fire-arm.....	Aug. 31, 1875	1091	342	8	386
	Baker, William R. (See McCormick & Baker.)					
159,143	Baker, William R., Chicago, Ill. Meter.....	Jan. 26, 1875	774	254	7	152

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170, 804	Baker, William R., assignor to C. H. and L. J. McCormick, Chicago, Ill. Sway-bar guide for harvesters.	Dec. 7, 1875	136	45	8	969
159, 062	Bakewell & Co., Allan C. (See Frey, James H., assignor.)	Jan. 26, 1875	704	231	7	143
170, 464	Bakewell, Benjamin, jr., Pittsburgh, Pa. Glass-mold	Nov. 30, 1875	1139	359	8	917
163, 909	Same. Mold for glassware	June 1, 1875	60	20	7	938
159, 378	Balcom, Varnum, Boston, Mass. Extension bird-cage hook	Feb. 2, 1875	122	43	7	201
162, 262	Baldwin, Augustine, assignor to Compressing Company, New York, N. Y. Method of fastening cotton-bales.	Apr. 20, 1875	623	203	7	671
159, 063	Baldwin, Cyrus W., Chicago, Ill. Hydraulic elevator	Jan. 26, 1875	705	232	7	143
164, 792	Baldwin, David, Midland Park, N. J. Motor for light machinery	June 22, 1875	902		7	1080
159, 244	Baldwin, Edgar A., Phelps County, and Clifford A. Holcombe, Lincoln, Nebr. Process of tanning hides	Feb. 2, 1875	1	1	7	185
165, 054	Baldwin, Frank S., Saint Louis, Mo. Calculating-machine	June 29, 1875	1159	373	7	1120
	Baldwin, Frank S., Philadelphia, Pa. Measuring-bottle					
	Baldwin, George. (See Davis, John E., assignor.)					
	Baldwin, George. (See Golden, Johnston, assignor.)					
	Baldwin, Frederick A. (See Hyde, James P., assignor.)					
	Baldwin, Frederick A. R., et al. (See La Rue, Silas H., assignor.)					
165, 147	Baldwin, Horace, Philadelphia, Pa. Advertising medium	July 6, 1875	1	1	8	6
168, 124	Baldwin, Hiram, Nashua, N. H. Folding table	Sept. 28, 1875	720	227	8	531
163, 292	Baldwin, John F. (See Umstead, William Q., assignor.)	May 18, 1875	552	177	7	843
166, 840	Baldwin, Oren, Keokuk, Iowa. Washing-machine	Aug. 17, 1875	633	197	8	306
168, 551	Baldwin, Ranson G., Leighton, Iowa. Apparatus for charging drill-holes	Oct. 11, 1875	234	77	8	605
167, 728	Baldwin, R. J. (See Baily, Mifflin W., assignor.)	Sept. 14, 1875	319	102	8	459
161, 375	Baldwin, Silas D., Chicago, Ill. Gas-governor	Mar. 30, 1875	1077	349	7	527
163, 442	Baldwin, Stephen W., Yonkers, N. Y. Manufacture of boot and shoe heels	May 18, 1875	684	218	7	860
165, 198	Baldwin, William, Tioga, Pa. Combination-lock	July 6, 1875	56	16	8	16
162, 263	Baldwin, William D. (See Evans, William W., assignor.)	Apr. 20, 1875	625	204	7	671
163, 963	Balentine, David F., Mount Gallagher, S. C. Seed-planter and fertilizer-distributor	June 1, 1875	102	35	7	945
	Balestrieri, Pasquale, Rome, Italy. Apparatus for collecting the rays of light and heat					
159, 379	Balkema, Edward, La Fayette, Ind. Wagon-axle	Feb. 2, 1875	123	43	7	201
167, 150	Ball, Brainard T. (See Ball, Frank H., assignor.)	Aug. 31, 1875	969	301	8	369
159, 557	Ball, Charles E. (See Voltair & Ball.)	Feb. 9, 1875	312	101	7	235
161, 091	Ball, Charles E., Philadelphia, Pa. Hat-irons	Mar. 23, 1875	792	259	7	483
171, 081	Same. Vapor-burner	Dec. 14, 1875	402	133	8	1011
169, 133	Ball, Charles E., and S. Lloyd Wiegand, assignors to James W. Carson, Philadelphia, Pa. Argand gas-burner	Oct. 26, 1875	803	260	8	701
167, 971	Ball, Charles E., assignor to James W. Carson, Philadelphia, Pa. Gas-burner	Sept. 21, 1875	542	174	8	500
168, 208	Ball, Charles E., Philadelphia, Pa., assignor to C. S. Bradford, jr. Lamp	Sept. 28, 1875	796	253	8	542
168, 209	Ball, Clinton M. and John C., Troy, N. Y. Shirt	Sept. 28, 1875	797	253	8	542
168, 210	Ball, Ephraim, assignor to Clarksville Iron Wagon Manufacturing Company, Clarksville, Tenn. Vehicle-wheel	Sept. 28, 1875	797	253	8	542
168, 211	Same. Vehicle-axle	Sept. 28, 1875	798	254	8	542
161, 195	Same. Vehicle-wheel	Mar. 23, 1875	880	289	7	495
6, 324	Same. Vehicle-hub					
6, 540	Same. Vehicle-wheel tire					
6, 621	Ball, Frank H., Foxburgh, Pa., assignor to Brainard T. Ball, Buffalo, N. Y. Valve-gear	Mar. 9, 1875	454	150	8	422
162, 338	Ball, George M. (See Chase & Ball.)	July 13, 1875	511	{ 156 } { 157 }	8	87
164, 510	Ball, James, Brooklyn, N. Y., assignor to Samuel Rayner & Co. and John Q. Preble. Machine for cutting paper or other materials. (Reissue)	Aug. 31, 1875	1171	369	8	397
160, 379	Ball, James, Brooklyn, N. Y., assignor to Samuel Rayner & Co. Envelope-machine. (Reissue)	Apr. 20, 1875	689	225	7	697
163, 720	Ball, James, Brooklyn, N. Y., assignor, by mesne assignments, to Samuel Rayner & Co. and John Q. Preble. Sheet for cutting out irregular articles. (Reissue)	June 15, 1875	642	208	7	1036
163, 721	Ball, John C. (See Ball, Clinton M. and John C.)	Mar. 2, 1875	107	39	7	364
167, 972	Ball, Phinehas, Worcester, Mass. Stop-cock	May 25, 1875	950	302	7	902
160, 296	Same. Water-filter	May 25, 1875	952	302	7	902
160, 297	Ball, Phinehas and Beniah Fitts, assignors to Union Water Meter Company, Worcester, Mass. Water-meter	Sept. 21, 1875	542	174	8	500
164, 709	Same. Pressure-regulator with safety-valve	Mar. 2, 1875	35	13	7	354
159, 785	Same. Pressure-regulator with dash-pot	Mar. 2, 1875	36	14	7	354
6, 333	Ball, Robert C., Oakland, Cal. Wash-stand and water-closet combined	June 22, 1875	833	271	7	1071
171, 544	Ball, Robert R., West Meriden, Conn. Stove-pipe coupling	Feb. 16, 1875	530	177	7	270
167, 973	Same. Stove-lid lifter	Mar. 16, 1875	687	226	7	461
171, 257	Ball, William, New Vienna, Ohio. Construction of canal-boats	Dec. 28, 1875	878	287	8	1091
158, 456	Ballantine, Alexander T., Titusville, Pa. Door-spring	Sept. 21, 1875	544	175	8	500
34, 203	Ballard, Achilles, Dublin, Ind., assignor, by mesne assignments, to Leopold Cohn. Shoe	Dec. 21, 1875	600	196	8	1045
158, 882	Ballard, Alfred W., and Dian B. Wirt, Macon, Mo. Feather-renovator	Jan. 5, 1875	91	31	7	22
158, 883	Ballantine, Elizabeth. (See Ballentine, George H., assignor.)	Jan. 21, 1875			7	222
167, 424	Ballantine, George H., assignor to Elizabeth Ballentine, Philadelphia, Pa. Construction of walls	Jan. 12, 1875			7	222
167, 974	Ballinger, Libanus, Trenton, Mo. Marking-stamp	Jan. 19, 1875	507	170	7	110
171, 082	Ballou, Cyrus C., Albany, assignor to East New York Boot, Shoe, and Leather Manufacturing Company, New York, N. Y. Heel-trimming machine	Jan. 19, 1875	508	170	7	110
160, 504	Ballou, Francis D., Abington, Mass. Mechanism for boot and shoe sewing-machines. (Extension)	Sept. 7, 1875	44	12	8	412
162, 613	Same. Same	Jan. 21, 1875			7	222
167, 632	Same. Same	Jan. 12, 1875			7	222
162, 339	Same. Die for flanging soles for boots and shoes	Jan. 19, 1875	507	170	7	110
167, 151	Same. Wax-thread sewing-machine	Jan. 19, 1875	508	170	7	110
164, 069	Same. Manufacture of shoe-pegs	Sept. 7, 1875	44	12	8	412
	Ballou, George F., Pawtucket, R. I., assignor to Henry N. Fisher and John E. Whitcomb, Waltham, Mass. Slide-rest for metal-turning lathes	Sept. 21, 1875	544	175	8	500
	Ballou, George F., Boston, assignor to Henry N. Fisher and John E. Whitcomb, Waltham, Mass. Chuck and centerer	Dec. 14, 1875	403	133	8	1011
	Ballou, R. A. (See Ashcroft, Edward H., assignor.)					
	Balmforth, Virginia V., assignor of one-half interest to M. P. Benton, Oakland, Cal. Button-hole casing	Mar. 9, 1875	237	81	7	391
	Balsley, John H., Dayton, Ohio. Adjustable table-leg	Nov. 9, 1875	290	93	8	781
	Baltes, Michel, Franksville, Wis. Farriers' tool	Sept. 14, 1875	338	74	8	446
	Baltz, Henry W., sr., Philadelphia, Pa. Car-starter	Apr. 20, 1875	692	225	7	673
	Baltzly, Henry H., Assumption, Ill. Hand-truck	Aug. 31, 1875	970	{ 301 } { 302 }	8	369
	Bancroft, Jonas H., Boston, Mass. Elevator	June 8, 1875	225	79	7	973

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette	
			Spec.	Dr'g.	Vol.	Page.
170, 329	Bancroft, Joseph W., and Thomas Walker, Philadelphia, Pa. Amalgamator.....	Nov. 23, 1875	1001	314	8	890
169, 761	Bancroft, Lafayette, Springfield, Ohio. Manufacture of stove-pipes.....	Nov. 9, 1875	448	141	8	801
168, 600	Bange, John H., Edwardsville, Ill. Road-engine.....	Oct. 11, 1875	283	92	8	611
159, 064	Banigan, Joseph. (See Miller, Wesley, assignor.)					
163, 293	Banker, George W., New York, N. Y. Barrel.....	Jan. 26, 1875	705	232	7	143
	Same..... Faucet for oil-cans.....	May 18, 1875	552	177	7	843
158, 584	Banks, Rebecca. (See Banks, William C., assignor.)					
	Banks, William C., assignor to Rebecca Banks, Como, Miss. Hay and cotton press.....	Jan. 19, 1875	509	{ 170 171 }	{ 7 7 }	110
158, 353	Bannen, Peter L. (See Hyams, Hyam J., assignor.)					
158, 417	Banning, Elmore E., Rochester Depot, Ohio. Lifting-jack.....	Jan. 5, 1875	3	1	7	9
162, 010	Bannister, Burr, Kalamazoo, Mich. Elastic arbor.....	Jan. 12, 1875	251	85	7	59
164, 793	Bannister, Burr, Kalamazoo, Mich. Elastic arbor.....	Apr. 13, 1875	375	126	7	632
167, 294	Bañolas, Ramon, Madrid, Spain. Railway-track.....	June 22, 1875	902	293	7	1080
160, 995	Same..... Car-truck.....	Aug. 31, 1875	1092	343	8	386
161, 732	Barager, Charles F., Waverlytown, N. Y. Coal-hod.....	Mar. 23, 1875	700	230	7	471
170, 657	Barbarick, John H., Casco, Me. Slate-frame.....	Apr. 6, 1875	124	43	7	586
165, 528	Barber, Fernando C., Oxford, Mich. Saw-set.....	Dec. 7, 1875	4	1	8	951
163, 350	Barber, Henry A., Watertown, N. Y. Rotary pump.....	July 13, 1875	392	118	8	70
	Barber, Samuel B. (See Cowman & Barber.)					
162, 139	Barber, William, Cape Vincent, assignor to self and Lewis Parker, Lyme, N. Y. Ma- chine for sawing staves.....	May 18, 1875	608	194	7	850
163, 722	Barber, William C., and George Amis, Knowlesville, N. Y. Bean-harvester.....	Apr. 20, 1875	510	168	7	657
167, 729	Barber, Willard J., Willimantic, Conn. Bronzing-machine.....	May 25, 1875	954	302	7	902
168, 080	Barberot, Emile, Paris, France, assignor to Joseph Reckendorfer, New York, N. Y. Pen-holder.....	Sept. 14, 1875	321	102	8	459
165, 055	Barbour, Edmund D., Boston, Mass. Calculating-machine.....	Sept. 28, 1875	672	214	8	525
	Barbour, Pollock. (See Davis, Stephen S., assignor.)					
168, 705	Barbour, Stephen M., and Frank A. Page, Philadelphia, Pa.; said Page assignor to said Barbour. Telegraph-wire coupling.....	June 29, 1875	1160	373	7	1120
168, 552	Barcellas, Daniel, Brooklyn, N. Y. Lamp-bracket.....	Oct. 11, 1875	376	123	8	626
168, 553	Barekhan, J. E. G. (See Horbort, William, assignor.)					
8, 594	Barclay, George, and James Kennedy, Oshawa, Canada. Horse hay-rake.....	Oct. 11, 1875	235	77	8	605
8, 595	Same..... same.....	Oct. 11, 1875	236	78	8	605
	Barclay, Thomas, assignor to Lowell Manufacturing Company, Lowell, Mass. Car- pet..... (Design)	Sept. 7, 1875			8	403
	Same..... same..... (Design)	Sept. 7, 1875			8	403
166, 181	Barclay, William H., et al. (See Berryman, Bayard A., assignor.)					
171, 083	Bardell, Alfred. (See Edgar & Bardell.)					
8, 578	Barden, James L., and Samuel Crudden, Hamilton, Ohio. Rotary churn.....	Aug. 3, 1875	1	1	8	199
8, 579	Barfoot, Mary E. (See Denman & Barfoot.)					
8, 580	Bargar, Joseph H., Baltimore, Md. Railway-signal.....	Dec. 14, 1875	404	134	8	1011
	Barinds, Simeon L., Memphis, Tenn. Fan..... (Case A. Design)	Aug. 24, 1875			8	322
	Same..... same..... (Case B. Design)	Aug. 24, 1875			8	322
	Same..... same..... (Case C. Design)	Aug. 24, 1875			8	322
162, 340	Barker, Abel. (See Barker, Samuel G. and Abel.)					
166, 493	Barker, Abel, Wyoming, Pa. Car-brake.....	Apr. 20, 1875	693	225	7	679
162, 517	Same..... Lamp-burner.....	Aug. 10, 1875	310	93	8	250
160, 966	Barker, Amos, Nebraska City, Nebr. Horse-detacher.....	Apr. 27, 1875	885	283	7	712
166, 447	Barker & Brothers, J., et al. (See Barker, Benjamin F., assignor.)					
163, 566	Barker, Benjamin F., Curtisville, Mass. Machine for grinding wood for paper-pulp.....	Mar. 23, 1875	700	231	7	471
160, 743	Barker, Benjamin F., Curtisville, assignor to self and J. Barker & Brothers, Pittsfield, Mass., and George W. Williams, Hartford, Conn. Machine for molding paper-pulp.....	Aug. 10, 1875	271	81	8	245
	Barker, Clarence F., North Belfast, Me. Label-holder.....	May 25, 1875	818	259	7	885
	Barker, Cyrus J., Lewiston, Me. Machine for washing goods in the piece.....	Mar. 16, 1875	466	153	7	431
170, 465	Barker, E. G., et al. (See Wroth, Alfred B., assignor.)					
161, 733	Barker, Elihu G. (See Roth & Barker.)					
163, 126	Barker, Erastus B., assignor to E. & H. T. Anthony & Co., New York, N. Y. Camera.....	Nov. 30, 1875	1139	359	8	917
162, 264	Barker, Ezekiel W. (See Cook & Barker.)					
160, 072	Barker, Gardner T., Pittsfield, Mass. Camp-lounge.....	Apr. 6, 1875	124	43	7	586
	Same..... Pillow.....	Sept. 28, 1875	721	227	8	531
170, 699	Barker, George E., Waverly, N. Y. Air-pump.....	Apr. 20, 1875	627	204	7	671
159, 742	Barker, George E., assignor of one-half interest to Lester D. Stone, Waverly, N. Y. Fire- extinguisher.....	Feb. 23, 1875	814	267	7	315
165, 148	Same..... Fire-engine.....	Dec. 7, 1875	42	13	8	956
168, 958	Barker, George W., et al. (See Hussey, Marcus L. M., assignor.)					
159, 742	Barker, James, assignor to Merrill A. and Charles A. Furbush, Philadelphia, Pa. Doff- ing mechanism for carding-machines.....	Feb. 16, 1875	490	164	7	265
163, 566	Barker, John F., Springfield, Mass. Condensing-engine.....	July 6, 1875	2	1	8	9
168, 958	Barker, John M. (See Prescott, Samuel A., assignor.)					
159, 741	Barker, Joseph H. (See Kelly, John, assignor.)					
6, 531	Barker, Samuel G., Scranton, and Abel Barker, Wyoming, Pa.; said Samuel G. assignor to said Abel Barker. Lock-nut.....	Oct. 19, 1875	614	204	8	668
162, 790	Barker, Volney, Otisfield, Me. Green-corn cutter.....	Feb. 16, 1875	489	164	7	265
158, 885	Barker, William. (See Wren & Barker.) (Reissue.)					
162, 599	Barker, William C., Millport, N. Y. Bucket for chain-pumps..... (Reissue.)	July 6, 1875	254	76	8	43
171, 209	Barlow, Charles B., Portsmouth, N. H., assignor of one-half interest to John I. Shaver, Belleville, Canada. Street-railway switch.....	May 4, 1875	52	17	7	753
162, 599	Barlow, Joseph C., assignor to Vandiver Corn Planter Company, Quincy, Ill. Wheel- scraper for planters.....	Jan. 19, 1875	510	171	7	110
162, 599	Same..... Seeding-machine.....	Apr. 27, 1875	953	306	7	721
196, 762	Barnard, Alanson, assignor to self, William H. Settle, and Joseph Messenger, Cincinnati, Ohio. Water-proof compound.....	Dec. 21, 1875	555		8	1039
166, 492	Barnard, Andrew B. (See Nye, Sherman R., assignor.) (Reissue.)					
168, 127	Barnard, Andrew B., Worcester, Mass. Mangle.....	Nov. 9, 1875	449	142	8	801
	Barnard, Andrew J., Camden, N. J. Hose spanner and key.....	Aug. 10, 1875	309	93	8	251
	Barnard, Charles S. W., Meriden, Conn. Means for attaching mast-hoops to sails.....	Sept. 28, 1875	722	228	8	531
165, 912	Barnard, Horace. (See Averill, Edward W., assignor.)					
169, 885	Same..... (See Goddu, Louis, assignor.)					
168, 960	Barnard, William H., Sedalia, Mo. Lamp-chimney.....	July 27, 1875	780	239	8	153
166, 581	Barnecott, John F., Westchester, N. Y. Side-bar wagon.....	Nov. 16, 1875	581	180	8	825
159, 892	Barnes, Ambrose E., New York, N. Y. Nursery-chair.....	Oct. 19, 1875	616	205	8	608
	Barnes, Edward W., Syracuse, N. Y. Faucet.....	Aug. 10, 1875	379	117	8	261
	Barnes, Edwin L., Boston, Mass. Spirit-level.....	Feb. 16, 1875	620	205	7	282

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	Barnes, Elmore A. (See Binns & Barnes.)					
	Barnes, Frances A. (See Mulberry, James C., assignor.)					
160, 808	Barnes, George H., Baltimore, Md. Stump-elevator	Mar. 16, 1875	534	173	7	439
167, 052	Barnes, Harlan P., Bristol, Ill. Wire-fence tightener	Aug. 24, 1875	850	265	8	345
167, 425	Barnes, Henry H., Brooklyn, N. Y. Refrigerator	Sept. 7, 1875	44	13	8	412
	Barnes, Jackson. (See Johnson & Barnes.)					
	Barnes, John. (See Barnes, William F., assignor.)					
	Same (See Barnes, William F. and John) (Reissue.)					
168, 959	Barnes, John, assignor of one-half interest to Ralph Emerson and William A. Talcott, Rockford, Ill. Harvester-rake	Oct. 19, 1875	615	204	8	668
165, 913	Barnes, Joseph C., assignor to Van Wormer & McGarvey, Albany, N. Y. Oven-door for stoves	July 27, 1875	780	239	8	153
158, 564	Barnes, Joshua, Brooklyn, N. Y. Medicine-dropper	Jan. 12, 1875	202	69	7	53
167, 975	Barnes, Joshua B., Fort Wayne, Ind. Hydraulic punch	Sept. 21, 1875	545	175 176	8	500
6, 671	Barnes, Josiah R., Elizabeth, N. J. Washing-machine	Oct. 5, 1875	213	69	8	594
161, 854	Same	Apr. 13, 1875	240	80	7	615
158, 565	Barnes, Merrick M., Boston, Mass. Presser-roller for sewing-machines	Jan. 12, 1875	203	69	7	53
162, 737	Same. Take-up and thread-controller for sewing-machines	May 4, 1875	2	1	7	747
162, 600	Barnes, Oramel C., Champaign, Ill. Machine for making glue-joints	Apr. 27, 1875	955	307	7	721
171, 497	Barnes, Richard W., Brooklyn, N. Y. Combined letter-sheet and envelope	Dec. 28, 1875	837	274	8	1085
6, 674	Barnes, William F., assignor of one-half interest to John Barnes, Rockford, Ill. Device for converting motion	Oct. 5, 1875	217	70	8	595
	Same (Reissue.)					
164, 414	Barnes, William F. and John, Rockford, Ill. Mechanical movement	June 15, 1875	561	182	7	1025
164, 413	Same	June 15, 1875	560	182	7	1025
159, 380	Barnes, William J., Pittsburgh, Pa. Movable cabinet for safes	Feb. 2, 1875	124	43	7	201
171, 545	Barnes, Wilson, Maquoketa, Iowa. Pump	Dec. 28, 1875	878	287	8	1091
158, 824	Barnet, Ephraim, and William H. Garrett, New Concord, Ohio. Egg-carrier	Jan. 19, 1875	156	152	7	103
	Barnett, James. (See Newton, Mary, assignor.)					
	Barney, Fayette. (See Bishop & Sherman, assignors.)					
	Barney, Samuel E., et al. (See Crosby, Chauncey O., assignor.)					
166, 448	Barnum, Nelson, Chicago, Ill. Holder for sewing-machine quilting attachments	Aug. 10, 1875	273	81	8	245
163, 135	Baron, Alfred L. (See Baron, Charles S. S. and Alfred L.)					
162, 011	Baron, Charles S. S. and Alfred L., Bellaire, Ohio. Lantern	May 11, 1875	387	125	7	805
170, 506	Barr, Daniel W., Reading, Pa. Fastener for doors and shutters	Apr. 13, 1875	376	126	7	632
	Barr, Robert S., assignor of two-thirds interest to William and William H. Stringer, Munsville, N. Y. Heating-stove	Nov. 30, 1875	1176	372	8	922
160, 253	Barraclough, Edward, and Timothy Pritchard, Brooklyn, N. Y. Fifth-wheel	Mar. 2, 1875	2	1	7	349
165, 467	Barrett, John, assignor of one-half interest to Joseph H. Hiler, Boonton, N. J. Apparatus for tapping barrels or casks of fermented liquors	July 13, 1875	340	100	8	63
8, 273	Barrett, Joseph, New York, N. Y., assignor to Samuel W. Dunn. Oil-cloth (Design)	Apr. 20, 1875			7	651
8, 674	Barrett, Joseph, New York, N. Y., assignor to Richard H. and Benjamin C. Reeve, Camden, N. J. Floor oil-cloth (Design)	Oct. 5, 1875			8	560
8, 747	Barrett, Joseph, New York, N. Y., assignor to Roxbury Carpet Company, Boston, Mass. Carpet (Design)	Oct. 26, 1875			8	689
8, 770	Same	Nov. 9, 1875			8	776
	Barrett, Thomas. (See Farnsworth & Barrett.)					
167, 053	Barrie, Samuel S., Rutherford Park, N. J. Mode of attaching lamp-bowls and other glass articles to pedestals	Aug. 24, 1875	851	265	8	345
162, 455	Barringer, John H., assignor to M. J. Cassell, Lincoln, Nebr. Curry-comb	Apr. 27, 1875	830	267	7	705
	Barrow, John. (See Green & Barrow.)					
169, 614	Barrow, Thomas E., Mansfield, Ohio. Friction-clutch	Nov. 9, 1875	291	94	8	781
159, 491	Barrowclough, Edward, Chester, Pa. Nut or collar lock	Feb. 9, 1875	249	81	7	227
8, 785	Barrows & Boyd. (See Thackeray, Charles, assignor.)					
163, 443	Barrows, Edward E., Attleborough, Mass. Watch-chain link (Design)	Nov. 9, 1875			8	777
162, 012	Barrows, Ira, Gouverneur, N. Y. Milk-cooler	May 18, 1875	685	218 219	7	860
162, 012	Barrows, William H., Iron Hills, Iowa. Wagon-brake	Apr. 13, 1875	376	126	7	633
166, 841	Barry, Job R., assignor of one-half interest to William R. Jerome, Philadelphia, Pa. Cushion-cleaning machine	Aug. 17, 1875	633	197	8	307
8, 211	Barseletti, Domenico, and Venzio Alluisi, New York, N. Y. Statue (Design)	Mar. 23, 1875			7	466
158, 566	Barstow, Percival H., Trenton, N. J. Shoe-nailing machine	Jan. 12, 1875	204	70	7	53
160, 073	Bartels, Emil, New York, N. Y. Adjustable reclining-lounge	Feb. 23, 1875	815	267	7	316
162, 140	Bartenbach, George A., and Charles Richter, Detroit, Mich. Process for tanning hides	Apr. 20, 1875	511		7	657
162, 993	Barth, Henry, Cincinnati, Ohio. Feed-gage for cylinder printing-presses	May 11, 1875	258	83	7	789
168, 823	Barthol, Albert E., Detroit, Mich. Implement for fire-arms	Oct. 19, 1875	494	161	8	651
171, 210	Barthel, Albrecht E., Detroit, Mich. Peat-machine	Dec. 21, 1875	556	181 182 183	8	1039
170, 505	Barthel, Michael, Milpitas, Cal. Ant-exterminator	Nov. 30, 1875	1176	371	8	922
170, 220	Bartlett, A. La Fayette, Brownsville, Ga. Wagon brake	Nov. 23, 1875	902	282	8	875
167, 730	Bartlett, Buel F., Dunkirk, N. Y. Lubricating compound	Sept. 14, 1875	322		8	459
169, 334	Bartlett, Charles, Newburyport, Mass. Machine for framing boats	Nov. 2, 1875	10	3	8	736
	Bartlett, Edward L., et al. (See Davis, John C., assignor.)					
	Bartlett, E. J. (See Wilson, Francis T., assignor.)					
	Bartlett, F. W., et al. (See Milsom, George, assignor.)					
	Bartlett, George D. (See Wardfield, Oliver D., assignor.)					
163, 042	Bartlett, Hiram S., Midland, Mich. Log-sled	May 11, 1875	304	98	7	794
159, 065	Bartlett, Joseph W., New York, N. Y., and Frederick Plant, Bricksburgh, N. J., said Plant assignor to said Bartlett. Sewing-machine	Jan. 26, 1875	706	232	7	143
	Bartlett, Lorenzo D. (See Merrill, Charles L., assignor.)					
	Bartlett, Monroe F. (See Lobdell & Bartlett.)					
169, 615	Bartlett, Sylvester P. (See Harrison, Thomas B., assignor.)					
163, 841	Bartlett, William W., Baltimore, Md. Spring bed-bottom	Nov. 9, 1875	291	94	8	781
	Barton, Arthur, Nevada City, Cal. Machine for bending horseshoes	June 1, 1875	5	2	7	931
170, 805	Barton, Clarence E. (See Barton, William R., assignor.)					
6, 644	Barton, Edwin, Flint, Mich. Spring bed-bottom	Dec. 7, 1875	137	45	8	969
	Barton, Elijah C., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Chime toy	Sept. 14, 1875	411	132	8	472
162, 994	Barton, Elijah C., East Hampton, Conn. Toy dancer	May 11, 1875	259	83	7	789
171, 084	Barton, Elijah C., assignor to Gong Bell Manufacturing Company, East Hampton, Conn. Call-bell	Dec. 14, 1875	404	134	8	1012
164, 511	Barton, Henry, Washington, D. C. Truss-bridge	June 15, 1875	644	208	7	1036
167, 054	Barton, Isaac, Williamsport, Pa. Flue and tubular steam-boiler	Aug. 24, 1875	852	265 266	8	345
169, 225	Same. Tubular boiler	Oct. 26, 1875	881	286	8	712

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168, 824	Barton, Robert, assignor of one-half interest to William Johnston, Philadelphia, Pa. Valve for water-mains	Oct. 19, 1875	495	161	8	651
	Barton, Wallace W. (See Pollard, James M., assignor.)					
162, 013	Barton, William R., Georgetown, Mass. Welt-knife	Apr. 13, 1875	378	127	7	633
162, 014	Barton, William R., Georgetown, assignor of one-third interest to Clarence E. Barton, Cambridge, Mass. Peg-cutter handle	Apr. 13, 1875	378	127	7	633
164, 415	Bascom, Austin, Norwalk, Ohio. Hub-borer	June 15, 1875	562	183	7	1026
161, 855	Bashaw, John N., Geneva Lake, Wis. Cultivator	Apr. 13, 1875	241	80	7	615
164, 252	Bass, Alexander, Las Canas, Cuba. Portable railway	June 8, 1875	390	132	7	994
158, 567	Bass, Charles H., Brooklyn, N. Y. Mode of loading coal, &c	Jan. 12, 1875	205	70	7	53
163, 294	Bass, Charles H., Medford, Mass. Toy cup and ball	May 18, 1875	553	177	7	843
	Bass, Joseph P. (See Weston, Emile R., assignor.)					
	Bass, Marquis L. (See Fletcher, James H., assignor.)					
	Bassett, George. (See Wright & Bassett.)					
158, 886	Bassett, John F., Limestone, N. Y. Washing-machine	Jan. 19, 1875	510	171	7	110
170, 700	Bassford, John F., New York, N. Y. Process of preparing preserved fruit	Dec. 7, 1875	43		8	956
162, 882	Bastian, Henry, sr., Montoursville, Pa. Fireman's extension-ladder	May 4, 1875	132	43	7	764
	Batchelder, Alden. (See Richter, Charles, assignor.) (Design.)					
162, 601	Batchelder, Alden, Reading, Mass. Escritoire	Apr. 27, 1875	955	307	7	721
158, 354	Batchelder, Asahel G., Lowell, Mass. Paper-tube machine	Jan. 5, 1875	4	2	6	9
163, 910	Batchelder, Edwin R., Prospect, assignor to self, Charles McLeod, South Thomaston, and Thompson H. Murch and Henry J. Snow, Dix Island, Me. Stone-cutter's gage	June 1, 1875	60	20	7	939
159, 743	Batchelder, Hazen J., Fitchburgh, assignor to Theodore S. Very, Boston, Mass. Horse-shoe-machine	Feb. 16, 1875	491	165	7	265
171, 258	Batchelder, Hazen J., Fitchburgh, assignor to self and Theodore S. Very, Boston, Mass. Horseshoe-machine	Dec. 21, 1875	600	197	8	1045
164, 960	Batcheller, Alexander F., Cedar Falls, Iowa. Corn-cultivator	June 19, 1875	1082	348	7	1110
	Batchelor, Charles. (See Edison & Batchelor.)					
168, 825	Batchelor, John, and Andrew J. Warren, Bridgeport, Conn. Filter and sprinkler combined	Oct. 19, 1875	495	161	8	651
160, 866	Batchelor, J. M., Foxcroft, Me., assignor of one-half interest to Cyrus Hill. Stump-elevator	Mar. 16, 1875	578	188	7	445
163, 351	Bate, Richard L., Adrian, Mich. Coffee-pot	May 18, 1875	609	194	7	850
167, 633	Bate, Wallace H., Norwood, assignor to self and Mathias Rademacher, Boston, Mass. Fastening for bottle-stoppers	Sept. 14, 1875	239	74	8	446
	Bateman, Jonathan, et al. (See Hubbell, Thomas J., assignor.)					
167, 212	Bates, Benjamin, Baltimore, Md. Air and gas or fluid regulator	Aug. 31, 1875	1023	318	8	376
169, 401	Bates, Charles L., Bergen County, N. J., assignor to Thomas Kennedy, Branford, Conn. Door-lock	Nov. 2, 1875	76	23	8	745
165, 402	Bates, Dresser T., Holliston, Mass. Wick-trimmer	July 13, 1875	273	81	8	53
161, 092	Bates, Edward P., Syracuse, assignor of one-half interest to Wyllys H. Warner, Brooklyn, N. Y. Steam-cooking vessel	Mar. 23, 1875	793	260	7	483
162, 883	Bates, Emory H., assignor of one-half interest to Norval E. Bates, Washington, D. C. Cooking-stove	May 4, 1875	132	44	7	764
168, 864	Bates, John C., Cold Spring, N. Y. Ventilating apparatus	Oct. 19, 1875	530	173	8	655
160, 997	Bates, Jonathan, Boston, Mass. Organ-case	Mar. 23, 1875	702	231	7	471
167, 055	Bates, Joseph W., Minneapolis, Minn., assignor of one-half interest to Eaton Cliff, Washington, D. C. Handle for wash-boilers, &c	Aug. 24, 1875	854	266	8	345
	Bates, Norval E. (See Bates, Emory H., assignor.)					
169, 075	Batson, Alonzo B., Newcastle, Ind. Bit-gage	Oct. 26, 1875	744	243	8	693
162, 602	Batson, John W., Baltimore, Md. Washing-machine	Apr. 27, 1875	956	307	7	721
161, 734	Battermann, Henry, assignor to Francis Emmerich, New York, N. Y. Bronzing-machine	Apr. 6, 1875	125	44	7	587
160, 047	Batley, Frederick A., Chicago, Ill. Sash-holder	Feb. 23, 1875	791	261	7	312
	Batticher, Paul G. (See Hay, Adam, assignor.)					
160, 380	Battis, John, 2d, Salem, Mass. Cigar-bunching machine	Mar. 2, 1875	108	39	7	364
	Battle, James. (See Beaufait, Frank, assignor.)					
	Battles, Rush S. (See Campfield, Matthew E., assignor.)					
165, 655	Battles, Rush S., Girard, Pa. Wrench	July 20, 1875	525	161	8	105
169, 671	Battmann, Carl L. C., Hoboken, N. J. Perfuming and disinfecting apparatus	Nov. 9, 1875	349	110	8	788
166, 060	Bauer, Cornelius, Cincinnati, Ohio. Vehicle-spring	July 27, 1875	918	284	8	171
169, 076	Bauer, Ernst, Williamsburgh, N. Y. Method of preparing animal hose	Oct. 26, 1875	744		8	693
	Bauer, Georg W. M. (See Blazicek & Bauer.)					
163, 911	Bauer, Zachaeus, Saint Louis, Mo. Apparatus for laying out coat-patterns	June 1, 1875	61	21	7	939
169, 508	Baughman, Henry, Dorn's Gold Mine, S. C. Saw-gumming machine	Nov. 2, 1875	166	55	8	758
163, 295	Baum, John C., Cincinnati, Ohio. Smoke-consuming furnace	May 18, 1875	554	177	7	843
164, 670	Baum, John E., Freeland, Pa. D. op-grate for cooking-range	June 22, 1875	792	260	7	1065
165, 974	Same.....Grate	July 27, 1875	840	258	8	160
				259		
165, 149	Bauman, Gerhart, Middletown, Conn. Wash-bench	July 6, 1875	3	1	8	9
167, 295	Baumann, William, Pittsburgh, Pa. Ash-sifter	Aug. 31, 1875	1093	343	8	386
158, 887	Baumeister, Leopold, Gaggenau, Germany, assignor to self and Michael Flürscheim. Apparatus for lighting, extinguishing, and regulating gas-flames	Jan. 19, 1875	511	171	7	110
				172		
167, 731	Baumgarten, Henry, Sturgis, Mich. File-holder	Sept. 14, 1875	322	102	8	459
	Baumgarten, Jerome. (See Iske & Baumgarten.)					
	Baumgarten, Robert. (See Rung, Henry, assignor.)					
170, 507	Baur, Julius, Brooklyn, N. Y. Manufacture of chrome steel	Nov. 30, 1875	1177		8	922
165, 199	Bausch, John J., Rochester, N. Y. Eye-glasses	July 6, 1875	57	16	8	16
162, 518	Bausch, Christian H., Holyoke, Mass. Hitching device for straps	Apr. 27, 1875	886	283	7	712
171, 341	Baux, John B., Oakland, assignor to James M. Curtis, San Francisco, Cal. Apparatus for aging liquors	Dec. 21, 1875	671	222	8	1055
167, 426	Bawden, John, Freehold, N. J. Fire-place grate	Sept. 7, 1875	45	13	8	412
	Baxter & Scriven Brothers. (See Horsfall, Charles H., assignor.) (Design.)					
162, 603	Baxter, Charles W., Camden, N. J. Hair-curling device	Apr. 27, 1875	957	307	7	721
164, 512	Baxter, De Witt C., assignor to self, Charles C. Torr, and Cochran Forbes, Philadelphia, Pa. Portable forge	June 15, 1875	645	208	7	1036
160, 637	Baxter, James M., Camden, N. J., assignor of one-half interest to Jos. D. Oppenheimer, Philadelphia, Pa. Curling-iron	Mar. 9, 1875	351	118	7	408
158, 888	Baxter, Jonathan W., Vevay, Ind. Dental plugger	Jan. 19, 1875	515	172	7	110
	Baxter, William H. (See Woolsey, Thomas D., assignor.)					
	Bay State Shoe and Leather Company. (See Bigelow, Charles D., assignor.)					
170, 466	Bayard, Stephen M., Ionia, Mich. Truss	Nov. 30, 1875	1140	359	8	917
	Bayer, Adolph. (See Raymond, John V., assignor.) (Reissue.)					
	Bayer, Joseph. (See Steele & Bayer.)					
161, 735	Bayles, Alfred G., New York, N. Y. Gas-burner	Apr. 6, 1875	127	44	7	587
161, 141	Bayles, George, New York, N. Y. Game-board	Apr. 20, 1875	512	168	7	657

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160, 505	Baylies, Thomas L., Edgartown, Mass. Vise	Mar. 9, 1875	238	82	7	391
160, 140	Bayliss, Benjamin, Pittsburgh, Pa. Metallurgic furnace	Feb. 23, 1875	868	287	7	324
	Bayliss, Edwin, <i>et al.</i> (See Brown, James O., assignor.)					
166, 244	Bayliss, John, New York, N. Y. Bellows	Aug. 3, 1875	54	17	8	207
159, 883	Bayliss, Thomas R., Birmingham, England. Manufacture of metallic cartridge-cases ..	Feb. 16, 1875	621	{ 205 206 207 }	7	282
158, 777	Baylor, Robert W., Norfolk, Va. Barrel	Jan. 19, 1875	412	138	7	97
	Beach, Albert, jr. (See Sweeney & Beach.)					
167, 976	Beach, Edgar B., assignor of one-half interest to Henry B. Beach, West Meriden, Conn. Sash-fastener	Sept. 21, 1875	547	176	8	500
163, 842	Beach, Emmett A., Battle Creek, Mich. Road-scraper	June 1, 1875	6	2	7	931
168, 212	Beach, Giles, Gloversville, N. Y. Apparatus for operating organ-bellows	Sept. 28, 1875	798	254	8	542
	Beach, Harry E. (See Donnelly, Martin, assignor.)					
162, 604	Beach, Henry, assignor of one-half interest to Peter Kaiser, Warsaw, Ill. Spring-bed bottom	Apr. 27, 1875	957	308	7	721
	Beach, Henry B. (See Babbitt & Beach.)					
	Same. (See Beach, Edgar B., assignor.)					
159, 014	Beach, Henry H., Rome, N. Y. Grain-drier	Jan. 26, 1875	664	217	7	137
163, 843	Beach, Henry L., Montrose, Pa. Scroll-sawing machine	June 1, 1875	7	2	7	931
182, 519	Beach, Walter W., Esconawba, Mich. Locomotive ash pan and damper	Apr. 27, 1875	887	284	7	712
168, 707	Beach, William H., and George Marshall, Belleville, Ill. Apparatus for walling wells ..	Oct. 11, 1875	379	124	8	626
	Beadle, Augustus, <i>et al.</i> (See Hamilton, Alexander, assignor) .. (Reissue.) ..					
	Beadle, Jesse. (See Anthony & Beadle.)					
	Same. (See Howard & Beadle.)					
161, 196	Beagle, Henry, Philadelphia, Pa. Stool and seat	Mar. 23, 1875	880	289	7	495
	Beal, Flavius O. (See Babcock, James F., assignor.)					
	Beale, Horace A. (See Dallar, Samuel, assignor.)					
163, 567	Beall, Charles B., Hamilton, assignor of one-half interest to Theodore G. Massie, Cincinnati, Ohio. Planing-machine	May 25, 1875	818	259	7	885
8, 201	Beals, Leonard S., Astoria, N. Y. Breast-pin and pendant. (Case A. Design) ..	Mar. 9, 1875			7	387
8, 202	Same. (Case B. Design) ..	Mar. 9, 1875			7	387
8, 203	Same. Breast-pin. (Case C. Design) ..	Mar. 9, 1875			7	387
8, 274	Same. same. (Case A. Design) ..	Apr. 20, 1875			7	651
8, 275	Same. same. (Case B. Design) ..	Apr. 20, 1875			7	651
8, 298	Same. Breast-pin and pendant. (Case A. Design) ..	Apr. 27, 1875			7	701
8, 299	Same. same. (Case B. Design) ..	Apr. 27, 1875			7	701
8, 300	Same. same. (Case C. Design) ..	Apr. 27, 1875			7	701
8, 312	Same. Cuff-button. (Design) ..	May 4, 1875			7	742
8, 406	Same. Breast-pin. (Case A'. Design) ..	June 22, 1875			7	1056
8, 407	Same. same. (Case B'. Design) ..	June 22, 1875			7	1056
8, 408	Same. same. (Case C'. Design) ..	June 22, 1875			7	1056
8, 409	Same. Scarf-ring. (Design) ..	June 22, 1875			7	1056
8, 756	Same. Shirt-stud. (Case A. Design) ..	Oct. 26, 1875			8	689
8, 757	Same. same. (Case B. Design) ..	Oct. 26, 1875			8	689
8, 758	Same. same. (Case C. Design) ..	Oct. 26, 1875			8	689
165, 200	Beals, Pascal P., Buffalo, N. Y. Furnace for heating soldering-irons ..	July 6, 1875	57	17	8	16
8, 786	Beam, Daniel A., Newark, N. J. Chain-link. (Design) ..	Nov. 9, 1875			8	777
164, 416	Beam, Jacob H., Philadelphia, Pa. Sausage-machine ..	June 15, 1875	563	183	7	1026
165, 201	Beam, John H., and Joseph B., Bardstown, Ky. Still for the manufacture of alcoholic spirits ..	July 6, 1875	58	17	8	17
	Beam, Joseph B. (See Beam, John H. and Joseph B.) ..					
161, 736	Beamer, Valentine M., Noblesville, Ind. Horse-collar fastening ..	Apr. 6, 1875	127	44	7	587
161, 197	Beamisdarfer, Joseph A., Campbelltown, Pa. Rock-drilling machine ..	Mar. 23, 1875	881	289	7	495
6, 215	Bean, Albert B., New Haven, Conn. Machine-clutch. (Reissue) ..	Jan. 12, 1875	385	131	7	78
6, 791	Same. same. (Reissue) ..	Dec. 14, 1875	530	175	8	1028
	Bean, Benjamin F. (See Bean, Henry and Benjamin F.) ..					
160, 298	Bean, Benjamin F., Lynn, Mass. Neck-tie supporter ..	Mar. 2, 1875	36	14	7	354
158, 775	Bean, Benjamin F., and Charles H. Farnham, Manchester, N. H. Picking-mechanism for looms ..	Jan. 19, 1875	409	137	7	97
158, 889	Bean, Edwin E., Boston, Mass. Electro-magnetic gas-lighting apparatus ..	Jan. 19, 1875	516	{ 172 173 174 }	7	111
161, 376	Same. Speed-regulator for propellers ..	Mar. 30, 1875	1079	{ 349 350 }	7	528
169, 509	Same. Electric railway-signal ..	Nov. 2, 1875	167	55, 56	8	758
170, 221	Same. Electric gas-lighting apparatus ..	Nov. 23, 1875	903	282	8	875
159, 144	Bean, Edwin E., assignor to Consolidated Wax Thread Sewing Machine Company, Boston, Mass. Wax-thread sewing-machine ..	Jan. 26, 1875	776	255	7	153
166, 330	Bean, Henry, and Benjamin F., Pawling, Pa. Fence ..	Aug. 3, 1875	132	41	8	218
168, 865	Bean, James H., and Richard W. Box, Pulaski, N. Y. Folding chair ..	Oct. 19, 1875	530	174	8	655
6, 703	Bean, John, Hudson, Mich. Pump. (Reissue) ..	Oct. 19, 1875	728	240	8	683
165, 056	Bean, John, Hudson, Mich., assignor of three-fourths interest to Aaron Chandler and L. D. Ralesback, Davenport, Iowa, and R. A. Bean, Hudson, Mich. Fire-engine ..	June 29, 1875	1160	374	7	1121
164, 360	Bean, Joseph H., Cincinnati, Ohio. Carbureter ..	June 15, 1875	507	167	7	1019
165, 782	Same. Pressure-blower for gas-machines ..	July 20, 1875	636	{ 195 196 }	8	121
166, 331	Same. Motor ..	Aug. 3, 1875	133	41	8	218
168, 444	Same. Gas-regulator ..	Oct. 5, 1875	109	37	8	581
164, 130	Bean, Luther, and James M. Butters, Stratford Hollow, N. H. Machine for turning bobbins ..	June 8, 1875	278	95	7	979
170, 330	Bean, Otis W., Tecumseh, Mich. Vat for tanning leather ..	Nov. 23, 1875	1002	314	8	890
	Bean, R. A., <i>et al.</i> (See Bean, John, assignor.) ..					
169, 134	Bean, Samuel, Clinton Valley, Ohio. Corn-stalk cutter ..	Oct. 26, 1875	803	261	8	701
159, 744	Beanland, John E., Bradford, England. Quadrant for opening, shutting, and fastening windows ..	Feb. 16, 1875	493	165	7	266
	Bear, Wilson, <i>et al.</i> (See Kline, Jacob, assignor.) ..					
169, 763	Bearce, Larned S., Houston, Tex. Cotton-press ..	Nov. 9, 1875	451	142	8	801
	Beard, Beach C., <i>et al.</i> (See Harris, Thomas, assignor.) ..					
163, 137	Beard, David P., Saint Louis, Mo., assignor of one-half interest to Patrick G. Rooney. Steam-boiler furnace ..	May 11, 1875	388	125	7	805
163, 964	Beard, Evan L., Thornton, Ind. Band-cutter for thrashing-machines ..	June 1, 1875	103	35	7	945
158, 457	Beard, George W., Grenada, Miss. Cotton-scraper ..	Jan. 5, 1875	93	32	7	22
	Beard, Huntington, <i>et al.</i> (See Harris, Thomas, assignor.) ..					
161, 653	Beardslee, Lester A., Washington, D. C. Machine for testing the strength of materials ..	Apr. 6, 1875	56	21	7	577

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161, 737	Beardslee, Lester A., Washington, D. C. Testing-machine	Apr. 6, 1875	128	44	7	587
162, 213	Beardslee, Marcus D., Saint Louis, Mo. Grain-scourer	Apr. 20, 1875	577	189	7	665
163, 444	Beardsley, George F. (See Lasher, Morgan E., assignor.)					
	Beardsley, George F., Glenn's Falls, N. Y. Horse-collar	May 18, 1875	686	219	7	860
	Beardsley, Homer S. (See Sampson, William S., assignor.)					
6, 582	Beardsley, Lester C., Cleveland, Ohio. Can-seaming machine	Aug. 10, 1875	468	144	8	273
6, 583	Same. Sheet-metal can	Aug. 10, 1875	470	144	8	273
	Beasly, H. (See Casey, Fred A., assignor.)					
161, 138	Beasley, Charles J. (See Tappey, Steel & Beasley.)					
	Beasley, Charles J., assignor to W. H. Tappey and Alexander Steel, Petersburg, Va. Bale-tie	May 11, 1875	389	126	7	805
	Beath, John M. (See Martin & Beath)					
159, 998	Beath, John M., San Francisco, Cal. Absorbing ammonia-gas in water	Feb. 23, 1875	745	247	7	307
168, 766	Same. Ice-machine	Oct. 11, 1875	376	123	8	626
170, 508	Same. same	Nov. 30, 1875	1178	372	8	922
169, 346	Beatley, Joseph W., assignor to Robert W. Rutherford and Joseph W. Beatley, trustees, Brooklyn, N. Y. Manufacture of illuminating-gas	Oct. 26, 1875	978	317	8	725
166, 957	Beaton, David and Samuel A., Philadelphia, Pa. Nut-lock	Aug. 24, 1875	760	235	8	332
	Beaton, Samuel A. (See Beaton, David and Samuel A.)					
165, 656	Beatty, Thornton, Vermillion, Ill. Felly-plate	July 20, 1875	526	161	8	105
164, 070	Beaudry, Alexander, Boston, Mass. Tool-handle	June 8, 1875	226	79	7	973
160, 638	Beaudry, Joseph, assignor of one-half interest to Toussaint G. Coursolles, Ottawa, Canada. Lathe for turning irregular forms	Mar. 9, 1875	352	119	7	408
163, 723	Beaufait, Frank, assignor to self and James Battle, Detroit, Mich. Fire-kindler for steam fire-engines	May 25, 1875	955	303	7	902
162, 884	Beaumont, Duncan, Sacramento, Cal. Steam-plow	May 4, 1875	133	44	7	764
168, 213	Beaumont, Franklin, jr., assignor to self and William H. Beaumont, Dallas, Tex. Stilt	Sept. 28, 1875	799	254	8	542
	Beaumont, William H. (See Beaumont, Franklin, jr., assignor.)					
169, 764	Beaver, Fredrick P., Dayton, Ohio. Kneek-down table	Nov. 9, 1875	451	142	8	801
164, 417	Beaver, John, and Jedediah M. Tallman, Ilion, N. Y. Shuttle for sewing-machines	June 15, 1875	564	183	7	1026
166, 061	Beazell, John S., Chillicothe, Mo. Harrow	July 27, 1875	919	284	8	171
166, 062	Same. Chain pump bucket	July 27, 1875	920	284	8	171
163, 965	Beche, Peter, Bath, Pa. Tide-power	June 1, 1875	104	35	7	945
167, 869	Bechet, Alphonse, Clifton, assignor to Charles F. A. Hinrichs, Brooklyn, N. Y. Removable drip-cup for argand lamps	Sept. 21, 1875	465	147	8	488
162, 605	Bechler, John A., assignor of one-half interest to William Mitchell, Philadelphia, Pa. Socket-joint for whip-canes	Apr. 27, 1875	956	308	7	721
170, 701	Bechman, Friedrich W., Cincinnati, Ohio. Key-hole guard	Dec. 7, 1875	44	13	8	956
163, 626	Beck, Andrew, Philipsburgh, Pa. Instrument for scribing stair-curves	May 25, 1875	875	276	7	892
166, 958	Beck, Andrew and Israel, Philipsburgh, Pa. Mechanical movement	Aug. 24, 1875	761	235	8	332
159, 884	Beck, August, assignor to Louis Dryfoos, New York, N. Y. Quilting-machine	Feb. 16, 1875	624	207	7	282
163, 966	Beck, Bernard J., Brooklyn, N. Y. Sheet-music holder	June 1, 1875	105	36	7	945
8, 410	Beck, Edward, and Stephen Bird, Lockport, N. Y. Picture-frame (Design)	June 22, 1875			7	1056
169, 226	Beck, George, Charlotte, N. Y. Vehicle-axle	Oct. 26, 1875	882	287	8	712
	Beck, Israel. (See Beck, Andrew and Israel.)					
162, 791	Beck, Washington, Pittsburgh, Pa. Glass-press	May 4, 1875	54	17	7	754
159, 745	Becker, Arp, Chicago, Ill. Wash-boiler	Feb. 16, 1875	494	165	7	266
160, 074	Becker, Henry, Blauveltville, N. Y. Chimney-top	Feb. 23, 1875	815	268	7	316
167, 818	Becker, Herman, Philadelphia, Pa. Truss	Sept. 21, 1875	419	133	8	481
158, 667	Becker, Jacob, jr., Seymour, Ind. Running-gear	Jan. 12, 1875	297	100	7	65
159, 630	Same. Running-gear for vehicles	Feb. 9, 1875	364	121	7	243
158, 890	Becker, John, and W. D. Hoffman, Sigourney, Iowa. Electro-therapeutic bath	Jan. 19, 1875	517	173	7	111
165, 057	Becker, Leander, York, Pa. Wringer	June 29, 1875	1161	374	7	1121
165, 058	Same. Washing-machine	June 29, 1875	1162	374	7	1121
170, 702	Beckert, Frederick, jr., Allegheny, Pa. Shutter-hinge	Dec. 7, 1875	45	13	8	956
169, 135	Beckert, William, Allegheny, Pa. Double-tree clip	Oct. 26, 1875	804	261	8	701
159, 746	Beckett, William H., Chelmsford, England. Stop-cock	Feb. 16, 1875	495	165	7	266
162, 520	Beckford, Frank M., Haverhill, Mass. Carpet-sweeper	Apr. 27, 1875	887	284	7	712
169, 247	Beckley, Anson J., assignor to Walter and Erastus H. Gregory, Battle Creek, Mich. Wind-wheel	Oct. 26, 1875	883	287	8	712
169, 510	Beckwith, Edward H., Saint Petersburg, Pa. Valve	Nov. 2, 1875	169	56	8	758
170, 511	Beckwith, Erwin G., and George R. Brown, deceased, by Harriet W. Brown, administratrix, Strongsville, assignors to John Q. A. Oliver and Eldred H. Phillips, York, Ohio. Bow for animal-pokes	Nov. 30, 1875	1184	373	8	923
168, 364	Beckwith, Samuel H., Utica, N. Y. Electric communicator	Oct. 5, 1875	41	15	8	570
167, 382	Beckwith, William G., Newark, N. J. Sewing-machine	Sept. 7, 1875	2	1	8	407
162, 214	Beddow, Thomas, and Alexander T. Jackson, assignors to Thomas Beddow; said Beddow assignor of one-half interest to George Phelps, New Albany, Ind. Die for swaging right and left intersecting screw-threads	Sept. 28, 1875	799	254	8	549
158, 668	Bedell, Otis T., New York, N. Y. Wrench	Jan. 12, 1875	297	101	7	66
	Bedell, William. (See Shepard & Bedell.)					
162, 456	Bedford, Alma, Cold Water, Mich. Held-back iron	Apr. 27, 1875	831	268	7	705
169, 077	Bedford, Joseph T., New York, N. Y. Electric burglar-alarm and annunciator	Oct. 26, 1875	745	243 244	8	693
167, 819	Bee, Albert W., San Francisco, Cal., and J. Wilson Garrett, Philadelphia, Pa. Automatic glass cock	Sept. 21, 1875	420	133	8	481
	Beebe, Calvin, et al. (See Milgate, George C., assignor.)					
	Beebe, Emmet A. (See Beebe, Sidney L. and Emmet A.)					
169, 511	Beebe, Henry, Jersey City Heights, N. J. Lantern	Nov. 2, 1875	169	56	8	758
170, 510	Same. same	Nov. 20, 1875	1183	373	8	923
165, 059	Beebe, Lewis H., Hudson, Mich. Preventing the obstruction of water-channels	June 29, 1875	1162	374	7	1121
171, 259	Beebe, Sidney L. and Emmet A., North Ridgeville, Ohio. Lathe for turning stone	Dec. 21, 1875	603	197	8	1045
162, 341	Beecher, Ebenezer B., Westville, Conn. Feeding mechanism for paper-box machines	Apr. 20, 1875	694	225 226	7	680
	Beecher Manufacturing Company. (See McElney, William B., assignor.)					
161, 738	Beecher, Samuel N., Milford, Conn. Hanging carriage-bodies	Apr. 6, 1875	129	45	7	587
162, 995	Beekly, Samuel S., Lanark, Ill. Rotary churn	May 11, 1875	259	84	7	789
166, 141	Beckman, George S., Tallula, Ill. Fly-brush attachment	Feb. 23, 1875	869	287	7	324
1-9, 066	Beckman, John V., Brooklyn, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Rotary engine	Jan. 26, 1875	707	232 233	7	143
159, 558	Beers, Edwin A., De Kalb, Ill. Draft-equalizer	Feb. 9, 1875	313	102	7	235
166, 063	Beers, Edwin A., De Kalb Centre, Ill. Gang-plow	July 27, 1875	921	285	8	171
167, 056	Beers, George W., Bridgeport, Conn. Curtain-roller and bracket	Aug. 24, 1875	854	266	8	345
158, 618	Beers, John, Darke County, Ohio. Lifting-jack	Jan. 12, 1875	232	85	7	59
163, 907	Beers, John, Greenville, Ohio. Hand corn-planter	June 1, 1875	105	36	7	945

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 975	Beers, Philo M., Bridgeport, Conn. Machine for stamping needles	July 27, 1875	841	259	8	160
165, 976	Same..... Machine for swaging needle-blanks	July 27, 1875	842	259	8	160
165, 977	Same..... Machine for polishing the eyes of needles	July 27, 1875	844	260	8	160
166, 245	Same..... Machine for trimming needle-blanks	Aug. 3, 1875	55	17	8	207
166, 246	Same..... Machine for polishing the eyes of needles	Aug. 3, 1875	56	18	8	207
168, 128	Beers, William, Milan, Ohio. Vehicle-spring	Sept. 28, 1875	722	228	8	531
160, 142	Behel, Jacob. (See Prentice, Behel, and Talcott.) Ill. Cultivator	Feb. 23, 1875	869	287	7	324
169, 616	Behlen, Charles, Cincinnati, Ohio. Running-gear for vehicles	Nov. 9, 1875	292	94	8	781
170, 982	Behlers, Edward R., Saint Louis, Mo. Vent.	Dec. 14, 1875	315	104	8	1000
161, 198	Behn, Henry A., jr., Troy, N. Y. Temporary binder	Mar. 23, 1875	882	290	7	495
160, 299	Behning, Henry, and Justus Diehl, New York, N. Y. Name-board for piano-fortes	Mar. 2, 1875	37	14	7	354
171, 342	Behren, Henry, Columbus, Ohio. Broom-sewing machine	Dec. 21, 1875	672	222	8	1053
168, 215	Behrens, Henry J., New York, N. Y. Valve-gear	Sept. 28, 1875	800	255	8	542
160, 867	Beidler, George A., Philadelphia, Pa. Ratchet watch-key	Mar. 16, 1875	579	188	7	445
162, 342	Same..... Paper cigar-box	Apr. 20, 1875	695	226	7	680
164, 253	Same..... Lantern	June 8, 1875	391	132	7	995
164, 254	Same..... Combined lamp and lantern	June 8, 1875	392	133	7	995
166, 582	Same..... Lamp	Aug. 10, 1875	381	117	8	261
6, 220	Beinkampen, Edward. (See Hindemyer & Beinkampen.) Beins, Hendrik, Groningen, Netherlands. Manufacture of liquid carbonic acid. (Reissue)	Jan. 12, 1875	391	.....	7	79
163, 724	Beisel, Frederick V. (See Gill & Beisel.) Beitenman, Harry C. (See Perot & Beitenman.) Belcher, Benjamin, assignor of one-half interest to John W. Belcher, Chicopee Falls, Mass. Straw-cutter	May 25, 1875	956	303	7	903
159, 294	Belcher, Henry and Thomas H., Irvington, N. J. Ruler	Feb. 2, 1875	46	17	7	191
167, 634	Belcher, John W. (See Belcher, Benjamin, assignor.) Belcher, Luther, jr. (See Kinsley, Edward G., assignor.) Belcher, Thomas H. (See Belcher, Henry and Thomas H.) Belcher, William A., and David J. Plume, Ophir City, Utah. Hollow staff for watches	Sept. 14, 1875	240	74	8	447
169, 886	Belfry, Holland. (See Law, Edward M., assignor.) Belknap Manufacturing Company. (See McLaughlin, Daniel, assignor)..... (Design.) Belknap, Thaddeus, Austinburgh, Ohio. Animal-trap	Nov. 16, 1875	581	180	8	815
6, 539	Bell, A. John, et al. (See Roberts, Edward J., assignor.) Bell, A. John, Ashland, Ky. Steamboat-staging	Jan. 21, 1875	.....	.....	7	222
161, 739	Bell, A. John, et al. (See Roberts, Edward J., assignor.) Bell, A. John, Ashland, Ky., assignor, by mesne assignments, to Carson Mudge, E. K. Converse, John A. Stevenson, J. W. Noyes, Frank Gaiennie, George E. Sears, and Lizzie D. Clarke, administratrix of Thomas L. Clarke, deceased. Steamboat-staging. (Reissue)	June 29, 1875	1240	399	7	1132
169, 765	Bell, Alexander G., Salem, assignor to self, Thomas Sanders, Haverhill, and Gardiner G. Hubbard, Cambridge, Mass. Transmitter and receiver for electric telegraphs	Apr. 6, 1875	129	45	7	587
163, 352	Bell, Charles S., Hillsborough, Ohio. Heating and ventilating stove	Nov. 9, 1875	452	142	8	801
167, 870	Bell, Christopher. (See Bell, William E., assignor.) Bell, Francis R., Marshall, Tex. Plow	May 18, 1875	610	194	7	850
168, 601	Bell, George W., Brooklyn, N. Y. Metallic can	Sept. 21, 1875	466	147	8	488
159, 885	Bell, Henry C., Edina, Mo. Lever-power	Oct. 11, 1875	285	92	8	612
159, 786	Bell, Henry P., Philadelphia, Pa. Rock-drill	Feb. 16, 1875	626	207	7	283
167, 383	Bell, Ira. (See Marsh & Bell.) Bell, Jackson W., McKinney, Tex. Compound engine	Feb. 16, 1875	531	177	7	271
160, 999	Bell, James H., and John H. Conrad, Chicago, Ill. Composition for glazing roasted coffee	Sept. 7, 1875	3	.....	8	407
167, 977	Bell, Jasper N., assignor to J. N. Bell and R. W. Johnson, Fort Dodge, Iowa. Oats- screen	Mar. 23, 1875	703	232	7	472
160, 998	Bell, Jasper N., assignor to L. L. Young and John Thistle, Fort Dodge, Iowa. Truss	Sept. 21, 1875	548	176	8	501
165, 529	Bell, J. N., et al. (See Bell, Jasper N., assignor.) Bell, John P., et al. (See Minor, John O., assignor.) Bell, Miller G., Clarksville, N. J. Combined wall-protector and towel-rack	Mar. 23, 1875	702	231	7	472
166, 583	Bell, Robert W. (See Tower, George E., assignor.) Bell, William E., assignor of one-half interest to Christopher Bell, Platteville, Wis. Car-coupling	July 13, 1875	394	118	8	70
169, 402	Bell, William H., San Francisco, Cal. Marking-wheel	Aug. 10, 1875	331	118	8	261
169, 403	Bellamy, Henry R., Indianapolis, Ind. Pavement	July 13, 1875	395	119	8	71
167, 213	Bellamy, John, New York, N. Y. Tailors' apparatus for drafting patterns	Nov. 2, 1875	76	23	8	745
159, 999	Bellinger, James R., Luzerne M. Belles, and William J. Fryer, jr.; said Bellinger as- signor to Charles L. Fryer, New York, N. Y. Bridle-bit for horses	Nov. 2, 1875	77	23	8	745
161, 142	Bellinger, Philip, Paoli, Ind. Mechanical movement	Aug. 31, 1875	1025	318	8	316
163, 628	Bellini, Giuseppe. (See Carobbi & Bellini.) Bellows, George F., Menomonee, Wis. Saw-mill	Feb. 23, 1875	746	247	7	307
165, 783	Belmer, Herman, Cincinnati, O. Bird-cage	Apr. 20, 1875	512	169	7	657
169, 887	Bement, George, Belvidere, Ill. Lever safety-pinion	July 20, 1875	638	196	8	121
166, 247	Bemis, Charles C., Brattleborough, Vt. Paint composition	Nov. 16, 1875	582	.....	8	825
163, 628	Benac, Auguste, assignor to self, Louise Poulin, and Eugene Von Nordhausen, New York, N. Y. Forge for blacksmiths	Aug. 3, 1875	57	18	8	207
169, 672	Bénard, Victor A. (See Bocquet & Bénard.) Bender, Philipp J., New York, N. Y. Fanning apparatus for rooms	May 25, 1875	878	276	7	892
162, 265	Bendit, Sigmund. (See Hanau & Bendit.) Bendit, Simon, San Francisco, Cal. Sofa-bedstead	Nov. 9, 1875	350	110	8	788
165, 436	Benedict and Burnham Manufacturing Company. (See Hallas & Weeden, assignors.) Same..... (See Moore, Samuel C., assignor)..... (Reissue.) Same..... (See Weeden, William N., assignor.)	Apr. 20, 1875	628	204	7	671
164, 634	Benedict, Charles P., Mount Carmel, Conn. Pocket-knife	July 13, 1875	306	90	8	57
159, 631	Benedict, William R. (See Fay, Altemas, jr., assignor.) Benjamin, Edwin, Chicago, Ill. Resawing-machine	June 22, 1875	761	250	7	1061
163, 445	Benjamin, Edwin, assignor of one-half interest to Samuel W. Pease, Chicago, Ill. Planing-machine	Feb. 9, 1875	264	121	7	243
160, 809	Benjamin, Fred. W., Jefferson, assignor of one-half interest to Abram Shears, Sheffield, Ohio. Saw-filing machine	May 18, 1875	686	219	7	861
163, 627	Bennet, Edwin R., et al. (See Johnson, James, assignor.) Bennet, Milton, Dayton, Ohio. Stove-pipe shelf	Mar. 16, 1875	535	173	7	439
163, 627	Bennett & Smith. (See Davies, Henry J. and Walter D., assignors)..... (Reissue.) Bennett, Edward P., Elkland, Pa. Spring bed-bottom	May 25, 1875	877	276	7	892

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161, 587	Bennett, Ezra B., Saint Johnsbury, Vt. Feed-water heater.....	Apr. 6, 1875	2	1	7	569
	Bennett, George B. (See Brinkerhoff, Bennett & Selder.)					
158, 891	Bennett, George, and Foster E. Parsons, Saint Louis, Mo. Uterine supporter.....	Jan. 19, 1875	518	173	7	111
167, 820	Bennett, George P., Coventry, R. I. Weather-strip.....	Sept. 21, 1875	420	134	8	481
	Bennett, James M., et al. (See Bridge, Edward W., assignor.)					
	Bennett, James G. (See Connery, Thomas B., assignor.)					
	Bennett, James G., et al. (See Davies, Henry J. and Walter D., assignors.)					
6, 639	Bennett, John F., Pittsburgh, Pa. Apparatus for forcing liquors..... (Reissue)	Sept. 14, 1875	405	130	8	471
161, 320	Same..... Manufacture of iron.....	Mar. 30, 1875	1021		7	521
161, 377	Bennett, John T. B., Birmingham, England. Apparatus for the manufacture of coke and illuminating-gas.....	Mar. 30, 1875	1080	350	7	528
	Bennett, Martin. (See Sheffield, George V., assignor.)					
160, 143	Bennett, Thomas B., and Edwin J. Rancier, Belton, Tex. Horizontal hay and cotton press.....	Feb. 23, 1875	870	288	7	324
	Bennett, Thomas E., et al. (See Knapp, George S., assignor.)					
158, 458	Bennett, William J., Beaver Dam, Wis. Wash-boiler attachment.....	Jan. 5, 1875	94	32	7	92
181, 085	Same..... Fly-trap.....	Dec. 14, 1875	405	134	8	1012
	Bennett, William H. (See Stephenson, Howard B., assignor.)					
165, 531	Bennett, William H., New York, N. Y. Eraser-holder.....	July 13, 1875	396	119	8	71
169, 136	Same..... Temporary binder.....	Oct. 26, 1875	805	261	8	701
	Bensinger, Moses. (See Held & Bensinger.)					
162, 015	Benson, Benjamin S., Baltimore, Md. Plow.....	Apr. 13, 1875	379	127	7	633
171, 595	Same..... Steam-plow.....	Dec. 28, 1875	926	303	8	1098
161, 467	Benson, Henry C., Yonkers, N. Y., assignor to Joseph Reckendorfer, New York, N. Y. Combined pen-handle and lead-pencil.....	Mar. 30, 1875	1160	374	7	539
162, 016	Benson, Joseph, South Boston, Mass. Vapor-burner.....	Apr. 13, 1875	380	127	7	633
162, 738	Benson, Joseph, Boston, Mass. Torch.....	May 4, 1875	3	1	7	747
165, 468	Same..... Vapor-burner.....	July 13, 1875	341	100	8	62
167, 635	Benson, Joseph, Boston, assignor to Jacob Willman, Marblehead, Mass. Window-sash tightener.....	Sept. 14, 1875	240	75	8	447
	Benson, R. S., et al. (See Illingworth, Benjamin, assignor.)					
163, 353	Bent, George, Seneca, Kans. Clothes-drier.....	May 18, 1875	610	195	7	850
166, 679	Bent, John W., Chicago, Ill. Extension-table.....	Aug. 17, 1875	489	149	8	285
	Bentley, Margedant & Co. (See Margedant, William C., assignor.)					
	Bentley, James. (See Arthur & Bentley.)					
	Bently, Orlando. (See Wright, Luther S., assignor.)					
	Benton, John B. (See Towle & Benton.)					
167, 057	Benton, John B., assignor to Hamilton E. Towle, New York, N. Y. Passenger-register..	Aug. 24, 1875	855	{ 266 } 267	8	346
162, 521	Benton, Linn B., Milwaukee, Wis. Price-tag needle.....	Apr. 27, 1875	889	284	7	712
	Benton, M. P. (See Balmforth, Virginia V., assignor.)					
158, 825	Benton, Thomas P., Prairie du Sac, Wis. Harvester.....	Jan. 19, 1875	457	153	7	103
167, 978	Benton, Thomas P., Prairie du Sac, assignor of one-half interest to John E. Dalton, Onalaska, Wis. Washing-machine.....	Sept. 21, 1875	548	177	8	501
170, 806	Benwell, Henry R., New York, N. Y. Device for finishing metallic tubing.....	Dec. 7, 1875	137	45	8	969
170, 150	Berchtold, Fidel, assignor to self, Theo. F. Berchtold, Samuel Thorman, Alois Schweizer, Charles B. Bernard, and John S. Edwards, Cleveland, Ohio. Process of manufacturing steel.....	Nov. 23, 1875	842		8	867
	Berchtold, Theo. F., et al. (See Berchtold, Fidel, assignor.)					
8, 643	Berg, Herrman, Philadelphia, Pa. Shawl..... (Design)	Sept. 7, 1875			8	403
171, 260	Berg, Lorentz, Minneapolis, Minn. Book and music support.....	Dec. 21, 1875	604	197	8	1046
	Berg, Martin P. (See Bach & Berg.)					
162, 606	Berger, Charles W., assignor to Edw. Brunner and Abraham B. Clarke, Philadelphia, Pa. Oyster-knife.....	Apr. 27, 1875	959	308	7	721
8, 492	Berger, Henry, New York, N. Y. Center-piece..... (Design)	July 20, 1875			8	95
171, 261	Berger, Julius J., Cannon Valley, Minn. Mortising-machine.....	Dec. 21, 1875	604	{ 197 } 198	8	1046
170, 432	Berger, William H., Pittsburgh, Pa. Wash-board.....	Nov. 30, 1875	1109	349	8	913
	Bergernon, Michael. (See Crother & Bergernon.)					
	Bergstresser, E. L., et al. (See Bergstresser, Stewart L., assignor.)					
159, 536	Bergstresser, Stewart L., Laureton, assignor to J. B. Bergstresser, Renovo, and E. L. Bergstresser, Hublersburgh, Pa. Camera.....	Feb. 9, 1875	297	96	7	232
159, 537	Same..... Photographic-plate holder.....	Feb. 9, 1875	298	96	7	233
161, 378	Berliner, Emile, New York, N. Y. Neck-tie fastening.....	Mar. 30, 1875	1082	350	7	528
	Bernard, Charles B., et al. (See Berchtold, Fidel, assignor.)					
160, 639	Bernard, Robert C., Rocky Mount, Va. Gate-latch.....	Mar. 9, 1875	353	119	7	408
160, 145	Berndt, John, Denver, Colo. Sash-balance.....	Feb. 23, 1875	873	288	7	325
164, 794	Same..... Transom for doors.....	June 22, 1875	903	294	7	1080
163, 568	Berney, Alfred, Somerville, Mass. Spark-arrester for locomotives.....	May 25, 1875	819	260	7	885
144, 131	Berney, Franklin P., assignor to Lee B. Matthews, Quentin, Cal. Fire-escape.....	June 8, 1875	279	95	7	980
162, 214	Bernhard, William M., Morristown, Ohio. Wagon-tongue attachment.....	Apr. 20, 1875	578	189	7	665
8, 304	Bernheim, Gustave, New York, N. Y. Valise-lock..... (Case B. Design)	May 4, 1875			7	742
163, 629	Same..... Lock for bags, &c.....	May 25, 1875	878	277	7	893
161, 000	Bernheisel, Solomon, Green Park, Pa. Millstone-bush.....	Mar. 23, 1875	703	232	7	472
161, 143	Same..... Millstone-balance.....	Apr. 20, 1875	513	169	7	657
8, 301	Bernstein, Samuel, Mount Vernon, N. Y. Dress-trimming..... (Design)	Apr. 27, 1875			7	701
170, 658	Berridge, Thomas, Sturgis, Mich. Shears for sheet and plate metal.....	Dec. 7, 1875	5	1	8	951
162, 522	Berry, Frank S., and George F. Alexander, New Sharon, Me. Thill-loop.....	Apr. 27, 1875	889	284	7	712
161, 654	Berry, James O., Vienna, Va., assignor of one-half interest to Richard Berry, Georgetown, D. C. Curry-comb.....	Apr. 6, 1875	57	21	7	577
165, 294	Berry, John, San Francisco, Cal. Mortising-machine.....	July 6, 1875	136	41	8	27
165, 532	Berry, John, assignor to National Needle Company, Springfield, Mass. Machine for polishing the eyes of machine-needles.....	July 13, 1875	397	119	8	71
160, 381	Berry, Luther D., Moline, Ill., assignor of one-half interest to George M. Sargent, Des Moines, Iowa. Platform-scales.....	Mar. 2, 1875	109	39	7	364
	Berry, Richard. (See Berry, James O., assignor.)					
168, 866	Berry, William O. M., San Francisco, Cal. Traction-wheel.....	Oct. 19, 1875	531	174	8	655
159, 145	Berryman, Bayard A., assignor of one-half interest to George W. Shaw, Saint Louis, Mo. Car-wheel and axle.....	Jan. 26, 1875	777	255	7	153
162, 885	Berryman, Bayard A., assignor to self, Stilson Hutchins, and William H. Barclay, Saint Louis, Mo. Prepared brick for paving.....	May 4, 1875	134		7	765
166, 842	Berryman, Bayard A., assignor of one-half interest to George W. Shaw, Saint Louis, Mo. Sash-fastener.....	Aug. 17, 1875	634	198	8	307
170, 331	Berryman, Bayard A., assignor, by mesne assignments, to self, William H. Heath, and William H. Barclay, Saint Louis, Mo. Building-block.....	Nov. 23, 1875	1003	314	8	890

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160,382	Berryman, Crayton, Juda, Wis. Corn-planter.....	Mar. 2, 1875	110	40	7	364
163,139	Bertelsen, Andrew, West Salem, and Marten Martens, Wrightsville, Wis. Process of preparing grain for grinding.....	May 11, 1875	390	126	7	806
167,214	Berthou, Edward L., Romsey, England. Collapsible boat.....	Aug. 31, 1875	1025	318	8	376
	Bertner, Reuben, <i>et al.</i> (See Salzman, Christian H., assignor.)					
	Bertolette, Levi A. (See Crossley & Bertolette.)					
	Bery, James L., <i>et al.</i> (See Hearn, William G., assignor.)					
	Besler, John. (See Wüstenhagen & Besler.)					
169,228	Best, Albert, Buffalo, N. Y. Rocking-chair.....	Oct. 26, 1875	884	287	8	713
159,747	Best, Clearmont V., Canton, Ohio. Bracket-lamp.....	Feb. 16, 1875	495	166	7	266
	Best, E. T., <i>et al.</i> (See Dodds, Albert G., assignor.)					
	Best, Jacob H. (See Eliason, William A., assignor.)					
166,248	Bestor, Henry T., San Francisco, Cal. Shelving for stoves.....	Aug. 3, 1875	57	18	8	207
170,509	Betteley, Joseph H., and Thomas Sharer, London, England. Car-brake.....	Nov. 30, 1875	1182	373	8	923
165,295	Bettes, Alexander, Warrensburgh, Mo. Heating-stove.....	July 6, 1875	137	41	8	27
161,468	Betts, Ira G., Detroit, assignor of two-thirds interest to George B. Peters, Marshall, Mich. Lubricating compound.....	Mar. 30, 1875	1160		7	539
161,469	Same.....same.....	Mar. 30, 1875	1162		7	539
160,744	Betts, Lewis F., assignor of one-half interest to Joseph S. Dennis and Henry N. Wheeler. Lantern.....	Mar. 16, 1875	468	153	7	431
160,745	Same.....same.....	Mar. 16, 1875	468	153	7	431
168,961	Betts, Lewis F., Chicago, Ill. Ventilating-cap.....	Oct. 19, 1875	617	205	8	668
168,962	Same.....Base-burning stove.....	Oct. 19, 1875	618	205	8	668
169,673	Same.....Tilman's furnace.....	Nov. 9, 1875	351	111	8	788
6,822	Betts, Robert W., and William Howie, Brooklyn, N. Y. Pulley.....(Reissue).....	Dec. 28, 1875	984	318	8	1105
168,708	Same.....same.....	Oct. 11, 1875	389	124	8	626
	Betts, William H. (See Waterbury, Milan, assignor.)					
164,361	Bettys, Freeman H., assignor to S. B. Rowe, jr., Rochester, N. Y. Device for operating curtain-rollers.....	June 15, 1875	509	167	7	1019
160,144	Beugler, James M., Williamsport, Pa. Scroll-saw.....	Feb. 23, 1875	872	288	7	325
	Beuther's Railway Axle Box Company. (See Austin, Kenneth S., assignor.)					
161,001	Bevelander, Benjamin, assignor to self and Simeon L. Putnam, Boston, Mass. Street-railway switch.....	Mar. 23, 1875	704	232	7	472
160,146	Bevin, Abner A., assignor to the Bevin Brothers Manufacturing Company, East Hampton, Conn. Device for attaching bells to shafts.....	Feb. 23, 1875	873	288	7	325
	Bevin Brothers Manufacturing Company. (See Bevin, Abner A., assignor.)					
	Same.....(See Nichols, Williams H., assignor.)					
168,415	Bewley, Levi N., Corning, N. Y. Hub.....	Oct. 5, 1875	110	37, 38	8	581
171,343	Bex, Frederick, Washington, D. C. Apparatus for setting metal axles.....	Dec. 21, 1875	672	222	8	1055
	Beyer, Louis. (See Heunsch & Beyer.)					
164,710	Beyer, Louis, and Rudolph Heunsch, Washington, D. C. Machine for bending circular-file blanks.....	June 22, 1875	833	271	7	1071
168,129	Beylikgy, Marc W., Tenafly, N. J. Extracting rubber from waste.....	Sept. 28, 1875	723	223	8	531
	Bibb, Bentley C. (See Klotz, Philip, assignor.)					
	Same.....(See McCormick, Joseph J., assignor.)					
170,332	Bibbins, John M., Williamsport, Pa. Combined rubber shoe and stocking.....	Nov. 23, 1875	1033	315	8	890
	Bickel, John. (See Van Verson & Bickel.)					
6,394	Bickel, John G., assignor, by mesne assignments, to John Irlbacker and Jacob Davis, Buffalo, N. Y. Faucet.....(Reissue).....	Apr. 20, 1875	821	265	7	695
6,423	Bickford, Dana, New York, N. Y. Knitting-machine.....(Reissue).....	May 11, 1875	536	173	7	825
6,424	Same.....same.....(Reissue).....	May 11, 1875	540	173	7	825
6,431	Same.....Apparatus for carbureting air.....(Reissue).....	May 18, 1875	803	254	7	875
162,523	Same.....Carbureter.....	Apr. 27, 1875	890	285	7	712
162,886	Same.....Knitting-machine.....	May 4, 1875	135	44	7	765
168,216	Same.....same.....	Sept. 28, 1875	801	255	8	543
162,887	Bickford, John E., Abington, and Benjamin F. Sturtevant, Boston, Mass. Pegging-machine.....	May 4, 1875	137	45	7	765
	Bicknell, Edward J., <i>et al.</i> (See Kenyon, Martin R., assignor.)					
169,766	Bicknell, William H., Boston, Mass. Sash-pulley.....	Nov. 9, 1875	453	143	8	801
	Biddle, John W. (See Goodall, Albert B., assignor.)					
171,498	Biddle, William, Corvallis, Oreg. Boot and shoe.....	Dec. 28, 1875	838	274	8	1085
	Bidwell, Arthur. (See Bidwell, Susan, James, and Arthur.)					
163,968	Bidwell, Henry E., South Haven, Mich. Fruit-drier.....	June 1, 1875	106	36	7	946
	Bidwell, James. (See Bidwell, Susan, James, and Arthur.)					
160,000	Bidwell, Jason A., and Jerome N. B. Jaquith, assignors to Union Steel Screw Company, Cleveland, Ohio. Mechanism for shaving, nicking, and reshaving wood-screw blanks.....	Feb. 23, 1875	747	{ 247 } { 248 }	7	307
163,043	Bidwell, Susan, James, and Arthur, London, England. Tooth-brush.....	May 11, 1875	305	98	7	794
160,249	Biedenfeld, Thalberg, New York, N. Y. Medical composition.....	Aug. 3, 1875	58		8	207
169,404	Bieder, Jacob, Ashtabula, Ohio. Baker's oven.....	Nov. 2, 1875	78	21	8	45
162,607	Biedinger, Charles G., Cincinnati, Ohio. Rotary paper-cutter.....	Apr. 27, 1875	959	308	7	721
	Biedler, George A. (See Hopkins & Biedler.)					
	Bierce, C. A., <i>et al.</i> (See Starkweather, John B., assignor.)					
160,048	Biering, Robert, New York, N. Y. Bustle.....	Feb. 23, 1875	791	261	7	313
168,130	Same.....same.....	Sept. 28, 1875	726	{ 228 } { 229 }	8	531
170,807	Same.....Pannier or bustle.....	Dec. 7, 1875	138	46	8	919
171,086	Biester, Rudolph, Chicago, Ill. Throttle-valve.....	Dec. 14, 1875	406	134	8	1012
	Bigelow, Charles D. (See Tyson, Charles, assignor.)					
165,060	Bigelow, Charles D., Brooklyn, N. Y., assignor to Bay State Shoe and Leather Company, Worcester, Mass. Sole-edge machine.....	June 29, 1875	1163	375	7	1121
167,152	Bigelow, Erastus B., Boston, Mass. Loom for weaving piled fabrics.....	Aug. 31, 1875	971	302	8	369
	Bigelow, John, trustee. (See Blanchard, Helen A., assignor.)					
169,512	Bigelow, John K., Springfield, Mass. Watch.....	Nov. 2, 1875	170	57	8	753
161,199	Bigelow, Jonah H., assignor to National Manufacturing Company, Worcester, Mass. Wire stand.....	Mar. 23, 1875	883	290	7	495
169,617	Biggerstaff, John, assignor to self and Thomas A. Gillespie, Pittsburgh, Pa. Hand-truck.....	Nov. 9, 1875	292	94	8	781
158,459	Biglin, Michael, Marr, assignor of one-half interest to M. F. Reap, Pleasant Valley, Pa. Scrubbing-brush.....	Jan. 5, 1875	94	32	7	22
	Bilbrough, Joseph. (See Stamour, John B., assignor.)					
158,669	Bilgram, Hugo, Philadelphia, Pa. Cut-off-valve gear.....	Jan. 12, 1875	298	101	7	66
164,132	Same.....same.....	June 8, 1875	220	96	7	980
165,701	Bilharz, Candidus, Pittsylvania Court-House, Va. Dental plugger.....	July 20, 1875	565	172	8	110
161,144	Billingham, Francis, New York, N. Y. Sign.....	Apr. 20, 1875	514	169	7	657
165,405	Billings, Charles E., Hartford, Conn. Shuttle for sewing machines.....	July 13, 1875	276	82	8	53
169,335	Same.....Breech-loading fire-arm.....	Nov. 2, 1875	11	3	8	736

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 563	Billings, Charles H., La Grange, Ind. Pruning-shears.	Mar. 9, 1875	289	98	7	399
	Billings, Coburn & Co. (See Stevens, John L., assignor.)					
165, 978	Billings, Louis C., Milford, N. H. Machine for balling yarn.	July 27, 1875	846	260	8	161
170, 931	Billings, Uriah, Cambridgeport, Mass. Horseshoe-machine.	Dec. 14, 1875	262	87	8	993
168, 602	Billington, Theophilus, Wetherford, Tex. Beefsteak-tenderer.	Oct. 11, 1875	286	93	8	612
158, 892	Billmeyer, Charles, York, Pa. Car-coupling.	Jan. 19, 1875	519	173	7	111
160, 147	Bilyen, Peter, sr., Moweaqua, Ill. Land-roller.	Feb. 23, 1875	874	289	7	325
166, 333	Binder, Anton, Lehigh Tannery, Pa. Corn-plow.	Aug. 3, 1875	135	42	8	218
161, 379	Bingham, Albert D., Nashua, N. H. Machine for making horseshoe-nails.	Mar. 30, 1875	1082	350	7	528
6, 478	Bingham, Osmore A., Keene, N. H., assignor to George C. Winchester, Ashburnham, Mass. Tilting chair.	June 8, 1875	496	163	7	1008
162, 888	Bingham, Thomas, Pittsburgh, Pa. Air-pump faucet.	May 4, 1875	137	45	7	75
159, 886	Bingham, William E., Decatur, Ill. Hog-ringing nippers.	Feb. 16, 1875	626	207	7	283
160, 564	Binney, Josephine, Boston, Mass. Picture-holder.	Mar. 9, 1875	290	98	7	399
162, 145	Binns, Edward, and Elmore A. Barnes, Pittsburgh, Pa. Casting shovel-blanks.	Apr. 20, 1875	514	169	7	657
	Birch, A. P., et al. (See Clem, James M., assignor.)					
	Birch, George A., et al. (See Clem, James M., assignor.)					
160, 506	Birchard, J. F., Milwaukee, Wis. Folding extension-table.	Mar. 9, 1875	239	82	7	391
163, 725	Birchler, Joseph M., Chicago, Ill. Extensible fire-ladder.	May 25, 1875	956	303	7	903
159, 787	Bird, Charles, Lower Merion Township, and William H. Sullenberger, assignors to selves and Caleb H. Jackson, Harrisburgh, Pa. Car-pusher.	Feb. 16, 1875	532	177	7	271
158, 776	Bird, James A. T., Chicago, Ill. Switch-signal.	Jan. 19, 1875	411	138	7	97
160, 640	Bird, John, Jersey City, N. J. Valve for street water-mains.	Mar. 9, 1875	354	119	7	408
163, 969	Bird, Joseph C., assignor of one-half interest to Edwin Martin, Rising Sun, Md. Lifting jack.	June 1, 1875	107	36	7	946
162, 266	Bird, Robert B., Madison, Wis. Sled-runner.	Apr. 20, 1875	628	204	7	672
	Bird, Stephen. (See Beck & Bird) (Design.)					
161, 656	Birdsall, William J., Naugatuck, Conn. Vulcanizing apparatus.	Apr. 6, 1875	59	21	7	577
8, 845	Birge, Isidore, Philadelphia, Pa. Paper box.	Dec. 14, 1875			8	988
162, 017	Birge, William H., Hartford, Conn. Door bolt.	Apr. 13, 1875	381	128	7	633
160, 383	Birkenhead, John, Mansfield, Mass. Bobbin for spinning.	Mar. 2, 1875	111	40	7	364
167, 058	Birkey, John Q., Philadelphia, Pa. Gas-stove.	Aug. 24, 1875	860	267	8	346
163, 912	Birmeli, Daniel, Greenville, N. J. Letter and picture block.	June 1, 1875	62	21	7	939
165, 469	Birmingham, George W., New York, N. Y. Device for regulating car-ventilators.	July 13, 1875	343	100	8	62
	Birner, George. (See Russell & Birner.)					
165, 131	Biscl, Joseph J., Lewisburgh, Pa. Revolving dry-goods stand.	Sept. 28, 1875	727	229	8	532
165, 979	Bishop, Charles C., Georgetown, D. C. Washing-machine.	July 27, 1875	848	261	8	161
	Bishop, E. D. (See Appleby, John F., assignor.)					
161, 588	Bishop, George G., assignor to Union Manufacturing Company, Norwalk, Conn. Cloth-fricizing machine.	Apr. 6, 1875	2	1	7	569
165, 657	Same. same	July 20, 1875	526	161	8	105
162, 457	Bishop, George W., and David B. Sherman, said Bishop assignor to Fayette Barney, Castleton, Vt. Combined hay-tumbler and horse-rake.	Apr. 27, 1875	832	268	7	705
166, 843	Bishop, Joaquim, Sugartown, assignor to Samuel S. White, Philadelphia, Pa. Electro-magnetic dental engine.	Aug. 17, 1875	635	198	8	307
171, 087	Same. Electro-magnetic engine.	Dec. 14, 1875	406	135	8	1012
160, 565	Bishop, Thomas B., Washington, D. C. Horseshoe.	Mar. 9, 1875	290	98	7	399
158, 893	Bissell, David, Detroit, Mich. Arm-fracture apparatus.	Jan. 19, 1875	519	174	7	111
158, 894	Same. Fracture-box for legs.	Jan. 19, 1875	520	174	7	111
159, 295	Same. Boot-leg-turning machine.	Feb. 2, 1875	47	17	7	191
6, 407	Bissell, Frank S., Pittsburgh, Pa. Grate.	May 4, 1875	241	77	7	779
161, 470	Same. Foot for fenders, &c.	Mar. 30, 1875	1163	374	7	539
164, 418	Same. Shutter for grates.	June 15, 1875	565	183	7	1026
	Bissicks, Samuel. (See Donnelly, Peter D., assignor.)					
164, 513	Bitler, James S., Delaware, Ohio. Sad-iron heater.	June 15, 1875	645	209	7	1036
169, 618	Bitner, David P., Lancaster, Pa. Shute for discharging coal from vessels.	Nov. 9, 1875	293	95	8	782
169, 078	Bitner, Eli S., Lock Haven, Pa. Refrigerator.	Oct. 26, 1875	748	244	8	693
171, 262	Bittenbender, Jonas, Beaver Valley, Pa. Sash-fastener.	Dec. 21, 1875	606	198	8	1046
	Bitter, Charles F., et al. (See Clark, George, assignor.)					
163, 726	Bitting, Joseph N., sr., Camden, N. J. Rudder-post bearing.	May 25, 1875	958	304	7	903
160, 675	Bixby, Orin S., Syracuse, N. Y. Securing pins to artificial teeth.	Feb. 23, 1875	816	268	7	316
163, 970	Bizzell, William B., assignor to self and W. H. Hardee, La Grange, N. C. Saw-filing machine.	June 1, 1875	108	37	7	946
	Black, Alexander. (See Opperman & Black.)					
164, 795	Black, Henry H. (See Livesay & Black.)					
166, 332	Black, James F., Oshkosh, Wis. Harvester-reel.	June 22, 1875	904	294	7	1080
170, 222	Black, James T., and Job Truax, Mount Union, Pa. Meat-pounder.	Aug. 3, 1875	134	42	8	218
170, 223	Black, John Q., Sextonville, Wis. Cheese-preserver.	Nov. 23, 1875	906	282	8	876
10, 254	Same. same	Nov. 23, 1875	907	282	8	876
159, 146	Black, Llewellyn L., Lowell, Mass., assignor to self and George B. Hart, Sandwich, N. H. Dough-kneading machine.	Mar. 2, 1875	2	1	7	349
166, 959	Black, William K., assignor to Joseph Harvey and William Adamson, Philadelphia, Pa. Clay pipe and apparatus for molding the same.	Jan. 26, 1875	778	255	7	153
166, 960	Black, William M., Lancaster, Ohio. Draw-bridge.	Aug. 24, 1875	762	236	8	333
159, 632	Same. Truss-bridge.	Aug. 24, 1875	763	236	8	333
170, 224	Blackford, Albert, Marlborough, Ohio, and George McMullen, Lancaster, Pa. Track-clearer.	Feb. 9, 1875	365	122	7	243
171, 499	Blackford, Charles D., Hamilton, Canada. Head-rest for corpses.	Nov. 23, 1875	908	283	8	876
	Blackie, Stephen, assignor of one-half interest to Robert Charles, Saint Louis, Mo. Hydrant.	Dec. 25, 1875	839	275	8	1085
160, 566	Blackman, Albert L., Nashville, Tenn. Machine for swaging car-wheels.	Mar. 9, 1875	291	99	7	399
167, 871	Blackman, Ebenezer, Brooklyn, N. Y. Lamp.	Sept. 21, 1875	467	148	8	488
168, 554	Same. Gas-burner.	Oct. 11, 1875	236	78	8	605
165, 150	Blackman, John F., Brooklyn, N. Y. Machine for carving wood.	July 6, 1875	4	2	8	9
164, 727	Blackman, William B., Ansonia, Conn. Sash-holder.	May 25, 1875	959	304	7	903
164, 49	Blackmore, Henry, Pittsburgh, Pa. Car-coupling.	June 15, 1875	566	184	7	1026
163, 913	Blackwood, Clinton R., New York, N. Y. Fastening for hats.	June 1, 1875	63	21	7	939
161, 093	Blades, Leonard J., Boston, Mass. Ticket-case.	Mar. 23, 1875	793	260	7	483
165, 712	Same. Ticket-stamp.	July 20, 1875	566	173	8	111
165, 202	Blair, John, Boston, Mass. Brush-binder.	July 6, 1875	60	17	8	17
6, 510	Blair, John B., Philadelphia, Pa., assignor, by mesne assignments, to Rubber Tip Pencil Company, New York, N. Y. Rubber eraser for lead-pencils.	June 29, 1875	1241	399	7	1132
159, 492	Blair, La Fayette, Painesville, Ohio. Fifth-wheel for vehicles.	Feb. 9, 1875	250	81	7	227
	Blaisdell, James. (See Galt & Blaisdell.)					
162, 343	Blaisdell, John H., Philadelphia, Pa. Molding-machine.	Apr. 20, 1875	696	226	7	680

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162, 889	Blaisse, George F., assignor to Benjamin Thackara, William J. Buck, John H. Southworth, Charles Thackara, and Byron H. Buck, Philadelphia, Pa. Drop-light chandelier.	May 4, 1875	138	45	7	765
159, 381	Blake, Andrew M., Canton, Ohio. Lamp.	Feb. 2, 1875	124	43, 44	7	201
	Blake Brothers Hardware Company. (See Blake, George A., assignor.) (Design.)					
	Same. (See Pomeroy, H. Sterling, assignor.)					
	Same. (See Steele, Elbridge J., assignor.) (Design.)					
6, 720	Blake, Clinton H., et al. (See Russell, Asa C., assignor.)					
8, 771	Blake, Edward S., Pittsburgh, Pa., assignor to Abner A. Griffing. Stove-pipe drum. (Reissue)	Nov. 2, 1875	273	88	8	771
	Blake, George A., assignor to Blake Brothers Hardware Company, New Haven, Conn. Sash-pulley. (Design)	Nov. 9, 1875			8	776
168, 217	Blake, George W., New York, N. Y. Hanger for steam and gas pipes.	Sept. 28, 1875	803	255	8	543
170, 808	Same. Air-vent for steam radiators.	Dec. 7, 1875	139	46	8	969
163, 354	Blake, Henry H., Pittsburgh, Pa. Elevator	May 18, 1875	611	195	7	850
159, 382	Blake, Henry T., New Haven, Conn. Key-hole escutcheon.	Feb. 2, 1875	125	44	7	202
163, 148	Same. Cap for wood-screws.	Feb. 23, 1875	875	259	7	325
165, 061	Same. Covering-plate for hinges.	June 29, 1875	1164	375	7	1121
166, 064	Blake, John E., Sewickley, Pa. Ore and stone crusher.	July 27, 1875	923	285	8	171
165, 404	Blake, Josiah A., Providence, R. I. Machine for checking gun-stocks.	July 13, 1875	275	81	8	53
159, 015	Blake, Lyman R., Brooklyn, N. Y., and Gordon McKay, Cambridge, Mass. Shoe-nail blank.	Jan. 26, 1875	665	217	7	137
165, 470	Blake, Lyman R., Brooklyn, N. Y. Nail for shoemaking.	July 13, 1875	343	100	8	62
168, 603	Blake, Theodore A., San Francisco, Cal. Hydraulic-lift dry-dock.	Oct. 11, 1875	286	93	8	612
166, 494	Blake, Theophilus, Fisherville, N. H. Loom shuttle-binder.	Aug. 10, 1875	310	93	8	250
161, 321	Blake, Thomas J., Pittsburgh, Pa. Shovel.	Mar. 30, 1875	1023	333	7	521
162, 146	Same. Manufacture of shovels.	Apr. 20, 1875	515	170	7	957
	Blakeley, Jos., et al. (See McNabb, James, assignor.)					
168, 315	Blakely, Frederick L., Clinton, Iowa. Lap-robe.	Oct. 5, 1875	2	1	8	565
165, 980	Blakeney, James, Springfield, Ohio. Cupola furnace.	July 27, 1875	849	261	8	161
170, 151	Blakeslee, John R., Brooklyn, assignor to F. C. Mills and Peter and Rudolph P. Gerlach, Cleveland, Ohio. Machine for making bolts, rivets, &c.	Nov. 23, 1875	843	264	8	867
160, 868	Blakeslee, Owen B., Rankin, Ill. Windmill.	Mar. 16, 1875	580	189	7	446
162, 018	Blakesley, Gilbert H., Bristol, Conn. Clock-striking mechanism.	Apr. 13, 1875	381	128	7	633
169, 229	Blakesley, Gilbert H., and Julius Wright, Bristol, Conn. Garter.	Oct. 26, 1875	885	287	8	713
166, 449	Blakey, Mildred, assignor of one-third interest to John L. Robertson, Etna, Pa. Machine for welding and finishing pipes.	Aug. 10, 1875	273	82	8	245
	Blamires, Henry. (See Blamires & Marsden.)					
164, 796	Blamires, Thomas H., and Henry and Harry Marsden, Huddersfield, England. Carding-machine.	June 22, 1875	906	{ 294 295 }	{ 7 7 }	{ 1080 1080 }
163, 971	Blanc, Frederic M., assignor of one-half interest to Thomas V. Pursell, Winchester, Va. Poultry-coop.	June 1, 1875	109	37	7	946
161, 471	Blanchard, Helen A., Boston, Mass. Sewing-machine.	Mar. 30, 1875	1163	375	7	539
161, 472	Same. same	Mar. 30, 1875	1165	375	7	539
162, 019	Same. Elastic seam for garments.	Apr. 13, 1875	382	128	7	633
167, 732	Same. Elastic goring for shoes.	Sept. 16, 1875	323	103	8	459
167, 492	Blanchard, Helen A., assignor to John Bigelow, trustee, Boston, Mass. Method of uniting knit goods.	Sept. 7, 1875	96	30	8	420
168, 709	Blanchard, James M., Washington, D. C. Paper-fastener.	Oct. 11, 1875	380	124	8	626
	Bland, Richard D. (See Winzer & Bland.)					
160, 001	Blanding, Francis, assignor to self and Thomas B. Wattles, Canton, Mass. Loom-shuttle.	Feb. 23, 1875	752	248	7	307
161, 094	Blank, Bart. M. J., Jersey City Heights, N. J., assignor to Charles Kohlman, New York, N. Y. Lock for pocket-books.	Mar. 23, 1875	794	260	7	483
165, 203	Blank, Bart. M. J., Jersey City Heights, N. J., assignor to Morris Reubens, New York, N. Y. Pocket-book frame.	July 6, 1875	61	17	8	17
170, 983	Same. Leather-dressing machine.	Dec. 14, 1875	316	105	8	1000
167, 427	Blass, Leonard, Germantown, N. Y. Strainer for pumps.	Sept. 7, 1875	46	13	8	412
169, 945	Blatchford, George, Mitchell, Canada. Reed-organ.	Nov. 16, 1875	632	196	8	831
164, 133	Blatchly, Stephen W., Dickson City, Pa. Folding and sliding ten-foot pole.	June 8, 1875	281	96	7	980
170, 809	Blatherwick, Nelson J., Chicago, Ill. Horseshoe.	Dec. 7, 1875	140	46	8	969
165, 403	Blatt, John B., Reading, Pa. Spoke-socket.	July 13, 1875	274	81	8	53
163, 044	Blauvelt, Jacob, Blauveltville, N. Y. Step-ladder.	May 11, 1875	306	98	7	794
158, 460	Blazicek, Felix, and Georg W. M. Bauer, Vienna, Austria. Furnace and heater.	Jan. 5, 1875	95	32	7	22
165, 204	Bleloch, George H., Springfield, Mass. Sewing-machine needle.	July 6, 1875	61	18	8	17
162, 267	Bleyley, Albert T., Conception, Mo. Detachable ash-pan for stoves.	Apr. 20, 1875	629	205	7	672
	Bliss, Charles F., et al. (See Ewald, Robert, assignor.)					
167, 428	Bliss, Egerton A., Jersey City, N. J. Clasp for lady's dress-supporter.	Sept. 7, 1875	46	13	8	412
162, 524	Bliss, Francis D., assignor of one-half interest to C. W. Tuttle, New Haven, Conn. Dust-pan.	Apr. 27, 1875	891	285	7	712
	Bliss, George, et al. (See Stout, George H., assignor.)					
161, 856	Bliss, George H., West Stockbridge, Mass. Broiler.	Apr. 13, 1875	242	81	7	615
161, 857	Same. Machine for trimming and burnishing the edges of boot and shoe heels, &c.	Apr. 13, 1875	243	81	7	615
161, 858	Same. Heel and sole trimming machine.	Apr. 13, 1875	245	82	7	615
	Bliss, Jeremy W. (See Orgill, John, assignor.)					
161, 740	Blocher, George D., Martinsburgh, W. Va. Adjustable hydrant.	Apr. 6, 1875	132	45	7	588
158, 461	Bloch, George, Newport, Ky. Sectional mattress.	Jan. 5, 1875	96	33	7	22
168, 710	Blodget, Gardner A., Elmira, N. Y. Adjustable screen-holder.	Oct. 11, 1875	381	124	8	616
168, 446	Blodget, Henry T., assignor to self and Charles W. Holden, Boston, Mass. Bird-guard for buildings.	Oct. 5, 1875	111	38	8	581
170, 512	Blodgett, John W., Nashville, Tenn. Rotary engine.	Nov. 30, 1875	1184	373	8	923
	Blodgett, Miles. (See Mower, Henry, assignor.)					
159, 887	Blood, Victor G., Parkersburgh, W. Va. Treating oils.	Feb. 16, 1875	627	208	7	283
163, 844	Blomquist, Carl A., La Porte, Ind. Station-indicator.	June 1, 1875	8	3	7	931
	Blondin, Joseph G. (See Adams & Blondin.)					
158, 462	Blood, Edwin J., Vernon, Wis., and Albert D. Hager, Chicago, Ill. Harvester-cutter.	Jan. 5, 1875	97	33	7	23
169, 946	Same. Corn-harvester.	Nov. 16, 1875	632	196	8	832
	Blood, Frank A., et al. (See Herrick, George, assignor.)					
169, 405	Blood, James M., Denver, Colo. Door-spring.	Nov. 2, 1875	78	24	8	745
166, 065	Blood, John D., and George Topping, assignors to John D. Blood, Henry Herrick, and George Topping, Amsterdam, N. Y. Corn-broom machine.	July 27, 1875	924	286	8	172
163, 972	Bloomer, William, assignor to Thomas Van Dyke and William W. Downs, New York, N. Y. Clothes-drier.	June 1, 1875	110	37	7	946
159, 296	Bloss, Josiah, and Elisher J. White, Wilkesbarre, Pa. Mining apparatus.	Feb. 2, 1875	48	17	7	191
	Blossom, Charles C. (See Gardner & Blossom.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 604	Blossom, Edwin F., and George H. Clark, Beverly, Mass. Insole.....	Oct. 11, 1875	287	93	8	612
164, 514	Blowney, Henry J., South Bend, Ind. Sign.....	June 15, 1875	646	209	7	1036
162, 344	Blum, Reinard, Champaign, Ill. Magazine-stove.....	Apr. 20, 1875	697	227	7	680
162, 345	Blume, William M., Brooklyn, N. Y. Street-sweeping machine.....	Apr. 20, 1875	698	227	7	680
170, 984	Blundell, Henry, Providence, R. I. Screw-die press.....	Dec. 14, 1875	317	105	8	1000
159, 067	Blunt, John G., et al. (See Smith, Roswell T., assignor)..... (Reissue.)					
	Blydenburgh, Charles M., Riverhead, N. Y. Bottle-stopper.....	Jan. 26, 1875	708	233	7	143
8, 740	Blymyer, John S. (See Lippy, David, assignor.).....					
167, 979	Blythe, James E., Saint Louis, Mo. Calendar..... (Design)	Oct. 19, 1875			8	645
165, 533	Boag, Alexander, Grand Rapids, Mich. Marble cement.....	Sept. 21, 1875	549		8	501
	Boag, Alexander, assignor of seven-eighths interest to Oliver P. Coats, Jackson, Mich. Composition for stone cement.....	July 13, 1875	398		8	71
	Boal, James D. (See Gillen, William S., assignor.).....					
163, 140	Boal, William K., et al. (See Davis, William C., assignor)..... (Design.)					
	Boardman, John H., Baltimore, Md. Tank for retailing coal-oil.....	May 11, 1875	391	126	7	806
	Boardman, William Y. A. (See Mann & Boardman.).....					
168, 132	Bobbitt, Creed. (See Bridges, Christopher M., assignor.).....					
	Bobet, Adolp L., assignor of one-half interest to George Nolan, San Francisco, Cal. Beer-faucet.....	Sept. 28, 1875	728	229	8	532
158, 355	Bobo, Angus L., New York, N. Y. Store-stool.....	Jan. 5, 1875	5	2	7	9
168, 826	Boch, Nicholas, Brooklyn, N. Y. Process of manufacturing porcelain door-knobs.....	Oct. 19, 1875	496	162	8	651
160, 300	Bocquet, Jean F., and Victor A. Bénard, Paris, France. Peat-molding machine.....	Mar. 2, 1875	37	14	7	354
170, 334	Boda, Abia Z. (See Boda, William J., assignor.).....					
	Boda, Abia Z., assignor of one-half interest to William J. Boda, Dayton, Ohio. Woven-wire mattress.....	Nov. 23, 1875	1005	315	8	890
162, 890	Boda, William J. (See Boda, Abia Z., assignor.).....					
170, 333	Boda, William J., assignor to self and Abia Z. Boda, Dayton, Ohio. Extension-table slide.....	May 4, 1875	139	45	7	765
	Boda, William J., assignor of one-half interest to Abia Z. Boda, Dayton, Ohio. Frame for woven-wire mattresses.....	Nov. 23, 1875	1004	315	8	890
161, 473	Bodel, Louis G., Jacques Masse, and William Webster, Paris, France. Machine for numbering, embossing, and inking bonds, &c.....	Mar. 30, 1875	1166	375	7	539
169, 774	Same..... Velocipede.....	Nov. 9, 1875	458	145	8	802
170, 932	Bodenhamer, Levi I., Kernersville, N. C. Bale-tie and hoop-lacer.....	Dec. 14, 1875	263	87	8	993
164, 961	Bodenhamer, William H., Xenia, Kans. Car-coupling.....	June 29, 1875	1083	348	7	1110
	Bodine, J. H. (See Standish, Philander H., assignor.).....					
171, 546	Bodwell, Ann E. (See Westgate, Joseph C., assignor.).....					
159, 888	Boe, John, Mount Vernon, N. Y. Machine for boring blind-stiles.....	Dec. 28, 1875	879	287	8	1091
6, 584	Boehmer, William, Madison, Wis. Stove-drum.....	Feb. 16, 1875	628	208	7	283
	Boeklen, Reinhold. (See Litchfield & Boeklen.).....					
167, 384	Boeklen, Reinhold, Brooklyn, N. Y. Apparatus for emptying water-closets, &c. (Reissue).....	Aug. 10, 1875	471	144	8	273
	Same..... Apparatus for emptying sewers and sinks.....	Sept. 7, 1875	3	1	8	407
162, 608	Boell, Edward A. (See Lyman & Boell.).....					
164, 797	Boettcher, John G. L., Brooklyn, N. Y. Faucet.....	Apr. 27, 1875	961	309	7	721
171, 344	Same..... Preserving effervescent liquids.....	June 22, 1875	907	295	7	1081
	Same..... Stop-cock.....	Dec. 21, 1875	673	222	8	1055
167, 636	Bogardus, F. P. (See Curtis, Henry M., assignor.).....					
168, 218	Bogen, George, jr., Cincinnati, Ohio. Lard drier and cooler.....	Sept. 14, 1875	241	75	8	447
164, 255	Boggs, Francis H., Montgomery Township, Ill. Churn.....	Sept. 28, 1875	803	256	8	543
	Bogia, Matthew C., Philadelphia, Pa. Culinary apparatus.....	June 8, 1875	393	133	7	995
162, 609	Bogle, James S. (See Patric & Bogle.).....					
6, 792	Bogle, James S., assignor to Thomas, Ludlow & Rodgers, Springfield, Ohio. Cider and wine press.....	Apr. 27, 1875	961	309	7	721
169, 137	Bogy, John L., Saint Genevieve, Mo. Surveying instrument..... (Reissue)	Dec. 14, 1875	531	175	8	1028
	Bohanon, Clinton and John, Brookline, N. H. Burglar-alarm.....	Oct. 26, 1875	806	261	8	701
166, 742	Bohanon, John. (See Bohanon, Clinton and John.).....					
164, 962	Bohart, John N., Denison, Tex. Beer-refrigerator.....	Aug. 17, 1875	550	169	8	293
168, 867	Bohm, Henry E., Herman Stubr, and Peter J. Joecken, Cleveland, Ohio. Oiler.....	June 29, 1875	1083	349	7	1110
167, 733	Bohn, Emil F., Clinton, Iowa. Relishing-machine.....	Oct. 19, 1875	531	174	8	656
168, 365	Boice, Garret S., Jersey City, N. J. Tooth-pick.....	Sept. 14, 1875	323	103	8	459
168, 366	Boies, Henry M., Scranton, Pa. Process for manufacturing paper tubing.....	Oct. 5, 1875	44		8	570
168, 367	Same..... Paper-tube machine.....	Oct. 5, 1875	44	15, 16	8	571
162, 525	Same..... Compound flexible paper tubing.....	Oct. 5, 1875	45	16	8	571
158, 463	Boivin, Guillaume, Montreal, Canada. Stiffener for boots and shoes.....	Apr. 27, 1875	892	285	7	713
158, 895	Boland, Mathew F., Philadelphia, Pa. Attachment of bells to hames.....	Jan. 5, 1875	97	33	7	23
	Bole, John, Pittsburgh, Pa. Piston-packing.....	Jan. 19, 1875	523	175	7	112
	Bolen, Charles M., et al. (See Crane, Thomas S., assignor.).....					
	Bolen, John A. (See Manchester & Bolen.).....					
169, 947	Bolender, Daniel. (See Klingler, Bolender & Stem.).....					
	Bolender, Frederick, Cincinnati, Ohio. Tuyere.....	Nov. 16, 1875	633	197	8	832
162, 346	Bolender, Harrison W. (See Sheckler & Bolender.).....					
	Bollerman, Richard, and Dominik L. Bollermann, New York, N. Y. Bottle-stopper.....	Apr. 20, 1875	699	227	7	....
	Bollermann, Dominik L. (See Bollerman & Bollermann.).....					
	Bolles, Luzerne M. (See Bellinger, Bolles & Fryer.).....					
163, 914	Bolles, Nelson B. (See Chapman, Frank, assignor.).....					
166, 250	Bollinger, Oliver J., York, Pa. Water-wheel.....	June 1, 1875	63	21	7	939
170, 985	Bolt, Joseph, Warsaw, Ill. Wagon-rack.....	Aug. 3, 1875	59	18	8	207
166, 743	Bolt, Joseph, Benicia, Cal. Sleeping-car.....	Dec. 14, 1875	318	105	8	1000
	Bolthoff, Henry, assignor to self and Charles F. Hendrie, Central City, Colo. Wet and dry ore crusher.....	Aug. 17, 1875	551	169	8	294
163, 446	Bolton, Festus C., and Michel Adams, Cleveland, Ohio. Railway-signal.....	May 18, 1875	687	220	7	861
169, 079	Bolton, Henry, Brantford, Canada. Spring-motor.....	May 18, 1875	688	220	7	861
	Bolton, James, Chicago, Ill., assignor to Singer Manufacturing Company, New York, N. Y. Shuttle carrier or driver for sewing-machines.....	Oct. 26, 1875	748	244	8	693
171, 263	Same..... Ruffler for sewing-machines.....	Dec. 21, 1875	606	198	8	1046
168, 368	Bolton, Lewis E., Des Moines, Iowa. Hinge.....	Oct. 5, 1875	46	16	8	571
8, 693	Bolton, Mahlon, jr., assignor to William H. Lehman and Mahlon Bolton, jr., Philadelphia, Pa. Border of a pictorial card..... (Design)	Oct. 5, 1875			8	561
167, 734	Boluss, Alfred R., assignor to Wilder, Bolus & Co., Cincinnati, Ohio. Roll for rolling metal.....	Sept. 14, 1875	324	103	8	459
162, 739	Bonaventure, Edmond F., New York, N. Y. Milling-tool.....	May 4, 1875	4	2	7	747
160, 002	Bond, Amos, Vernon, Conn. Apparatus for pisciculture.....	Feb. 23, 1875	753	249	7	307
168, 555	Bond, Jacob, Cleveland, Ohio. Dumping wagon.....	Oct. 11, 1875	237	78	8	605
169, 948	Same..... Vehicle-seat.....	Nov. 16, 1875	634	197	8	832
159, 016	Bond, Joseph L., Port Huron, Mich. Pawl-and-ratchet mechanism.....	Jan. 26, 1875	666	217	7	137

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 296	Bond, Nathan O., Fairfax Court-House, Va. Wash-stand.....	July 6, 1875	138	41, 42	8	23
166, 680	Bond, Oliver, Milwaukee, Wis. Sieve.....	Aug. 17, 1875	489	149	8	285
165, 471	Bond, Sobieski L., Columbia, S. C. Vehicle-wheel.....	July 13, 1875	344	101	8	62
	Bond, William H. (See Aldrich, George W., assignor.)					
	Bonfield, Joseph F. (See Bowers, George A., assignor.)					
162, 020	Bonfils, Paul, assignor to Charles A. Marsh, North Attleborough, Mass. Toy watch....	Apr. 13, 1875	383	128	7	633
163, 437	Bonker, George, Port Jervis, N. Y. Exhaust mechanism.....	July 13, 1875	307	91	8	57
169, 230	Bonnell, David, Saint Joseph, Mich. Drying-kiln.....	Oct. 26, 1875	885	288	8	713
8, 793	Bonnet, John J., Quincy, Ill. Stove..... (Design)	Nov. 16, 1875			8	819
	Bonney, Josiah S. (See Brightman, Albert, assignor.)					
171, 467	Bonney, Lydia P., assignor to Agnes Ryan, Chicago, Ill. Under-garment.....	Dec. 28, 1875	802	264	8	1081
6, 340	Bonney, Olpha, San Francisco, Cal. Band sawing-machine..... (Reissue)	Mar. 23, 1875	1007	328	7	511
170, 513	Bonney, William A., Hyde Park, assignor to Daniel Swett, Wakefield, and Samuel D. Niles, Reading, Mass. Ink-powder.....	Nov. 30, 1875	1185		8	923
	Bonsall, Charles. (See Brooks, Stephen H., assignor.)					
160, 255	Bonsall, Jonathan, Philadelphia, Pa. Shutter-worker.....	Mar. 2, 1875	3	1	7	349
166, 334	Bonta, James W., New Brighton, Pa. Chain.....	Aug. 3, 1875	136	42	8	218
166, 335	Same..... Furnace for blanks.....	Aug. 3, 1875	137	42	8	218
166, 336	Same..... Same.....	Aug. 3, 1875	138	43	8	219
170, 045	Bonwill, William G. A., Philadelphia, Pa. Electro-magnetic dental plugger.....	Nov. 16, 1875	713	226	8	643
169, 773	Boolsen, Friderikka, assignor of one-half interest to Charles H. Vandewater, Saint Louis, Mo. Fire-kindler.....	Nov. 9, 1875	458	145	8	802
170, 467	Boomer, George B., Syracuse, N. Y. Press.....	Nov. 30, 1875	1141	359 } 360 }	8	917
169, 231	Boon, Alonzo T., Chicago, Ill. Seal-lock.....	Oct. 26, 1875	886	288	8	713
170, 152	Boon, Willard S., Alpena, Mich. Sifting-scoop.....	Nov. 23, 1875	844	264	8	867
	Boone, John L. (See Hall, John S., assignor.)					
167, 637	Boone, Joseph K., Booneville, Mo. Composition for preserving eggs.....	Sept. 14, 1875	242		8	447
164, 711	Boone, Lewis, Buffalo, N. Y. Gas-extinguisher for street-lamps.....	June 22, 1875	834	271	7	1071
	Booth, Benjamin F. (See Dobbs & Booth.)					
	Booth, Charles L., et al. (See Hardy, Franklin D., assignor.)					
	Same..... (See Hardy, Dexter D., assignor.)					
171, 211	Booth, Ezra, Columbus, Ohio. Running-gear for vehicles.....	Dec. 21, 1875	557	183	8	1039
167, 735	Booth, George, Philadelphia, Pa. Cuspamore.....	Sept. 14, 1875	325	103	8	459
164, 256	Booth, John, Lincoln, assignor of one-half interest to Francis J. Rabbeth, Pawtucket, R. I. Means for securing spinning-rings to their rails.....	June 8, 1875	394	134	7	995
170, 335	Booth, William S., Baton Rouge, La. Stage plank and carrier.....	Nov. 23, 1875	1005	315	8	890
170, 046	Bopp, Christ, assignor to self and Joseph H. Swift, Green Point, N. Y. Box-trimming machine.....	Nov. 16, 1875	714	227	8	843
159, 748	Borchardt, Hugo, New Haven, Conn. Bullet-patching machine.....	Feb. 16, 1875	496	166	7	266
160, 641	Borden, Bradford, et al. (See Card, Edward, assignor.)					
	Borel, George W., assignor to Robert Wood, Philadelphia, Pa. Opera-chair.....	Mar. 9, 1875	355	120	7	409
	Borer, Jerome. (See King, William H., assignor.)					
161, 095	Borger, Henry, Urbana, Ohio. Plow-standard.....	Mar. 23, 1875	794	260 } 261 }	7	483
159, 633	Borgfeldt, Nicholas H., New York, N. Y. Pulley.....	Feb. 9, 1875	366	122	7	243
169, 138	Same..... Folding lounge.....	Oct. 26, 1875	806	262	8	701
169, 767	Borgman, Martin V., and William F. Lamson, Detroit, Mich. Cradle.....	Nov. 9, 1875	454	143	8	802
166, 584	Born, David and David F., Fulton, Ohio. Washing-machine.....	Aug. 10, 1875	382	118	8	261
	Born, David F. (See Born, David and David F.)					
6, 815	Born, Peter, New York, N. Y., assignor, by mesne assignments, to Edward W. Vaill. Folding chair..... (Reissue)	Dec. 21, 1875	788	261	8	1070
170, 618	Bort, Bruce C., Chateaugay, N. Y. Milk-cooler.....	Nov. 30, 1875	1287	407	8	936
161, 741	Bortree, Moses K., Jackson, Mich. Corset-box.....	Apr. 6, 1875	132	45	7	588
164, 515	Same..... Bustle.....	June 15, 1875	647	209	7	1036
165, 534	Same..... Corset.....	July 13, 1875	398	119	8	71
169, 232	Boschen, John H., New York, N. Y. Dry stench-trap.....	Oct. 26, 1875	887	288	8	713
163, 045	Bosquet, Antoine, Paris, France. Apparatus for capsuling bottles.....	May 11, 1875	306	98	7	794
167, 059	Boss, Martin P., Virginia City, Nev. Distributing quicksilver in quartz-mills.....	Aug. 24, 1875	860	268	8	346
	Bosson, William, et al. (See Horton, William H., assignor.)					
	Bostick, E. (See Kunkle, Erastus B., assignor.)					
	Bostwick & Co., W. W. (See Cook & Bostwick, assignors.)					
166, 961	Bostwick, George, Aurora, Ill. Bedstead-fastening.....	Aug. 24, 1875	765	236	8	333
	Bostwick, Jabez A. (See Brock, William H., assignor.)					
168, 868	Bostwick, Robert S., Jackson, Mich. Stove.....	Oct. 19, 1875	532	174	8	656
	Bostwick, Walter W. (See Cook & Bostwick.)					
162, 147	Bostwick, Walter W., Cincinnati, Ohio. Jelly-press.....	Apr. 20, 1875	516	170	7	638
162, 610	Boswell, Henry K., and David Immel, Cincinnati, Ohio. Thill-coupling.....	Apr. 27, 1875	962	309	7	722
6, 463	Bosworth, Charles F., Milford, Conn. Sewing-machine..... (Reissue)	June 1, 1875	202	72, 73	7	958
6, 467	Same..... Assignor, by mesne assignments, to Straw Sewing Machine Company. Sewing-machine..... (Reissue)	June 1, 1875	208	74	7	959
8, 007	Bosworth, Frederick S., assignor to Weybosset Mills, Providence, R. I. Fancy cassimere..... (Design)	Jan. 12, 1875			7	48
8, 052	Same..... same..... (Design)	Feb. 9, 1875			7	223
8, 263	Same..... Fancy-cassimere fabric..... (No. 1. Design)	Apr. 13, 1875			7	610
8, 264	Same..... same..... (No. 2. Design)	Apr. 13, 1875			7	610
8, 315	Same..... Fancy cassimere..... (No. 1. Design)	May 11, 1875			7	782
8, 316	Same..... same..... (No. 2. Design)	May 11, 1875			7	782
8, 675	Same..... same..... (Design)	Oct. 5, 1875			8	560
8, 676	Same..... same..... (Design)	Oct. 5, 1875			8	560
163, 355	Boteler, John W., Washington, D. C. Luncheon-plate.....	May 18, 1875	611	195	7	850
161, 742	Bots, Geert H., and William H. White, Zeeland, Mich. Whiffletree.....	Apr. 6, 1875	132	46	7	588
167, 296	Botsford, David, assignor of one-half interest to Frank Caulkings, Warsaw, N. Y. Potato-digger.....	Aug. 31, 1875	1094	343	8	386
169, 139	Bottomley, Henry, Camden, N. J. Method of manufacturing tufted yarn.....	Oct. 26, 1875	807	262	8	701
166, 066	Boucher, Leon, Saint Louis, Mo. Press for packing putty.....	July 27, 1875	925	266	8	172
167, 736	Boudren, Thomas, and George H. Johnson, Bridgeport, Conn. Wagon-lamp support.....	Sept. 14, 1875	325	104	8	459
160, 746	Bouju, Marcellin R., Paris, France. Paper-pulp engine.....	Mar. 16, 1875	469	154	7	431
6, 572	Boult, Myron T., Battle Creek, Mich. Machine for carving and ornamenting wood-work..... (Reissue)	Aug. 3, 1875	251	76	8	234
170, 933	Bourdin, Jules, Paris, France. Device for transmitting power to sewing-machines.....	Dec. 14, 1875	264	88	8	993
171, 088	Bourgeois, James J., Saint Cloud, Minn. Water-wheel.....	Dec. 14, 1875	407	135	8	1012
	Bourget, Pascal. (See Michalet & Bourget.)					
158, 464	Bourguignon, Wendel, Providence, R. I. Bottle-stopper.....	Jan. 5, 1875	98	33	7	23

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163, 630	Bourn, Augustus O., Providence, R. I., and William G. Vermilye, New York, N. Y. Game-board	May 25, 1875	879	277	7	893
162, 268	Bourne, F. Philip, Brooklyn, N. Y. Automatic closing attachment for waste-pipes.	Apr. 20, 1875	629	205	7	672
163, 141	Bourne, Francis, Boston, Mass. Cigar-tip	May 11, 1875	392	126	7	806
167, 872	Bourquin, Edouard, La Huet, Switzerland. Escapement for watches	Sept. 21, 1875	467	148	8	488
162, 891	Boustfield, Frederick H., San Francisco, Cal. Refining base-metal bullion	May 4, 1875	1-9		7	765
170, 659	Boust, Charles, Northumberland, Pa. Machine for trimming wall-paper	Dec. 7, 1875	5	2	8	951
171, 090	Bouvier, Louis, San José, Cal. Double-acting pump	Dec. 14, 1875	409	136	8	012
159, 634	Bovey, George C., Chillicothe, Ohio. Brick-machine	Feb. 9, 1875	367	122	7	243
	Bowden, James H. (See Larmon, Young W., assignor.)					
	Bowdoin, Frank A., et al. (See Winne & Kent, assignors.)					
160, 449	Bowen, Abraham S., Rushville, Ind. Extension-table	Feb. 23, 1875	876	289	7	325
158, 826	Bowen, Azro B., West Randolph, Vt. Bee-hive	Jan. 19, 1875	458	154	7	103
168, 219	Bowen, Charles H., Washington, D. C. Disinfecting, deodorizing, and antiseptic composition	Sept. 28, 1875	804		8	543
	Bowen, F. A. (See Minot, Hiram P., assignor.) (Reissue.)					
	Bowen, G. H., et al. (See Nott, Aaron B., assignor.)					
166, 251	Bowen, Jesse, Lancaster, Ohio. Cider-mill	Aug. 3, 1875	60	19	8	207
168, 220	Bowen, John H., and Joel G. Whiteside, Saint Louis, Mo. Composition dressing for shoes	Sept. 28, 1875	805		8	543
171, 506	Bowen, John J., Richmond, Va. Combined mattress and bedstead	Dec. 28, 1875	926	304	8	1098
162, 996	Bowen, William A., Racine, Wis. Washing-machine	May 11, 1875	260	84	7	789
161, 096	Bower, David, Lebanon, Pa. Car-coupling	Mar. 23, 1875	795	261	7	483
171, 089	Bower, Samuel L., Auburn, N. Y. Machine for making spiral springs	Dec. 14, 1875	408	135	8	1012
171, 547	Bowerman, David T., Middletown, N. Y. Felly-joint clip	Dec. 28, 1875	881	288	8	1091
160, 747	Bowers, George A., assignor to Joseph F. Bonfield, Chicago, Ill. Pan-forming machine	Mar. 16, 1875	470	154	7	432
	Bowers, H. L., et al. (See Walters, Charles D., assignor.)					
164, 798	Bowers, John W., South Carver, Mass. Machine for making boxes	June 22, 1875	908	295	7	1081
165, 784	Same. Ox-dressing machine	July 20, 1875	638	196	8	121
	Bowers, Marcus M. (See Norris, Bowers & Dimmock.)					
165, 703	Bowers, Marcus M., assignor to self and John P. Schemerhorn, Richmond, Va. Reversible plow-point	July 20, 1875	567	173	8	111
160, 869	Bowers, William H. H., Franklin, Ky. Check-valve	Mar. 16, 1875	581	189	7	446
161, 474	Same. Ice-machine	Mar. 30, 1875	1168	375	7	559
162, 021	Same. Air-pump	Apr. 13, 1875	383	129	7	633
	Bowhay, Egbert. (See Wood, Bowhay & Rosebrooks.)					
	Bowler, George W. (See Fuller, Nathaniel, assignor.)					
159, 635	Bowler, John A., New York, N. Y. Argand burner	Feb. 9, 1875	369	122	7	244
164, 671	Bowman, Charles, Hanover, Pa. Car-coupling	June 22, 1875	793	260	7	1066
164, 712	Bowman, Jacob, Harrisburgh, Canada. Smoke-drum	June 22, 1875	835	272	7	1071
	Bowman, John C. (See Johnson & Bowman.)					
159, 147	Bowman, Joseph, Weymouth, and Alexander Chapman, Lowell, Mass. Drier for fertilizers	Jan. 26, 1875	779	255	7	153
	Bowman, Lucy C. (See Bowman, William R., assignor.)					
162, 611	Bowman, Robert, Terre Haute, Ind. Wagon-coupling	Apr. 27, 1875	963	309	7	722
166, 681	Bowman, Thomas S., Saint Louis, Mo. Consecutive-numbering machine	Aug. 17, 1875	490	150	8	285
166, 585	Bowman, William R., assignor to Lucy C. Bowman, Danville, Ky. Straw-cutter	Aug. 10, 1875	383	118	8	261
162, 612	Bowyer, John A., Huntsburgh, Ohio. Iron-clad fence	Apr. 27, 1875	964	310	7	722
168, 827	Boyer, John A., Huntsburgh, assignor of one-half interest to John E. Quinn, Montville, Ohio. Washing-machine	Oct. 19, 1875	497	162	8	651
	Box, Richard W. (See Bean & Box.)					
161, 743	Boyce, Joseph B., Lockport, N. Y. Book-clamp	Apr. 6, 1875	133	46	7	588
6, 290	Boyd, David, New York, N. Y. Hot-air furnace	Feb. 16, 1875	728	242	7	296
	Boyd, Edward, trustee. (See Milward, Frank, assignor.) (Reissue.)					
160, 384	Boyd, George, Philadelphia, Pa. Coffee-roaster	Mar. 2, 1875	111	41	7	365
169, 080	Boyd, Henry E., McKeesport, Pa. Machine for cutting screw-taps	Oct. 26, 1875	749	244	8	693
6, 610	Boyd, James H., Chicago, Ill. Furnace for reducing ores of precious metals. (Reissue.)	Aug. 24, 1875	953	297	8	350
161, 657	Boyd, John, New York, N. Y. Pen-holder	Apr. 6, 1875	59	22	7	577
169, 406	Boyd, John, assignor of one-half interest to Charles Smith and William McKinnon, East Boston, Mass. Cane and umbrella combined	Nov. 2, 1875	79	24	8	745
	Boyd, Robert A., et al. (See Harris, Charles C., assignor.)					
160, 256	Boyd, Robert R., and Henry G. Fox, Memphis, Tenn. Sawing-machine	Mar. 2, 1875	3	2	7	349
	Boyd, Thomas H. (See Taber & Boyd.)					
159, 636	Boyden, William A., assignor to William E. Dougherty, Harrisburgh, Pa. Car-coupling	Feb. 9, 1875	370	123	7	244
162, 997	Boyer, Aaron, Galesburgh, Ill. Broom-press	May 11, 1875	261	85	7	789
170, 514	Boyer, Jacob, Rural Valley, Pa. Horse-yoke	Nov. 30, 1875	1186	374	8	923
161, 380	Boyer, Rassler, Lebanon, Pa. Oven for annealing building-blocks of furnace-slag	Mar. 30, 1875	1082	351	7	528
162, 347	Boyers, Jacob, Huntington, Ind. Coffee-pot	Apr. 20, 1875	701	228	7	680
160, 642	Boykin, J. H. Eley, Gadsden, Tenn. Wheel for vehicles	Mar. 9, 1875	356	120	7	409
170, 225	Boylard, Joseph, Troy, N. Y. Puddling-furnace door	Nov. 23, 1875	908	283	8	876
158, 396	Boyle, Charles B., New York, N. Y. Street-lamp	Jan. 5, 1875	40	14	7	14
163, 142	Boyle, David, Washington, D. C. Ice-machine	May 11, 1875	393	127	7	806
163, 143	Same. same	May 11, 1875	393	127	7	806
163, 144	Boyle, David, Quincy, Ill. Ice-machine	May 11, 1875	395	127	7	806
165, 205	Boyle, John, and Henry Stephens, Brooklyn, N. Y.; said Stephens assignor to said Boyle. Mail-bag	July 6, 1875	62	18	8	17
169, 513	Boyle, Robert K., New York, N. Y. Electric telegraph	Nov. 2, 1875	171	57	8	758
169, 514	Boyle, Robert K., Brooklyn, N. Y. Electrical induction apparatus	Nov. 2, 1875	173	57	8	758
	Boynton, Joseph. (See Halvorson, Halvor, assignor.)					
6, 251	Boynton, Nathaniel A., New York, N. Y. Heating-stove	Jan. 26, 1875	876	285	7	167
165, 297	Same. Self-closing door for stoves	July 6, 1875	139	42	8	28
165, 298	Same. Frame for fire-place heaters	July 6, 1875	139	43	8	28
171, 091	Same. Stove-grate	Dec. 14, 1875	410	137	8	1013
162, 022	Boynton, William J., Battle Creek, Mich. Handle for crosscut-saws	Apr. 13, 1875	384	129	7	633
	Bozarth, Stephen P. (See Shelley, Bozarth & Spring.)					
8, 000	Brace, Henry G., New York, N. Y. Medal	Jan. 12, 1875			7	48
164, 257	Brach, Isidor, Philadelphia, Pa. Water-filter	June 8, 1875	395	134	7	995
163, 448	Bracher, George S., Chatham, N. J. Wire fabric	May 18, 1875	689	220	7	861
171, 345	Bracher, Thomas W., New York, N. Y. Ventilator	Dec. 21, 1875	674	223	8	1055
	Brackett, Jefferson B., et al. (See Allen, Levi O., assignor.) (Reissue.)					
161, 658	Brackett, Marick C., Holland, Mass., assignor to George B. Bridgen, Norwich, Conn. Eyeglass-frame	Apr. 6, 1875	60	22	7	577

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6, 277	Brackett, Samuel A., and William W. Whitcomb, Boston, Mass., assignors to Union Patent Seam Company, Hartford, Conn. Seam for boats, &c. (Reissue)..	Feb. 9, 1875	470	101	7	258
158, 670	Brada, Charles, New York, N. Y. Bureau bedstead	Jan. 12, 1875	299	157	7	66
163, 728	Bradbury, Charles J., assignor to self and George W. Russell, Lawrence, Mass. Grinding cylinder for paper-pulp engines	May 25, 1875	959	304	7	903
163, 145	Same..... Rocking-chair	May 11, 1875	396	128	7	806
162, 215	Bradfield, John, Grand Rapids, Mich. Folding table	Apr. 20, 1875	579	190	7	665
170, 515	Same..... same	Nov. 30, 1875	1186	374	8	923
170, 336	Bradford, C. S. (See Ball, Charles E., assignor.)	Nov. 23, 1875	1006	316	8	890
166, 252	Bradford, Erastus F., Boston, Mass. Paper collar	Aug. 3, 1875	61	19	8	207
162, 740	Bradford, Hezekiah. (See Baker, Loring J., assignor.) (Reissue.)	May 4, 1875	5	2	7	747
166, 962	Bradford, Hezekiah, Philadelphia, Pa. Separating coal from slate, &c	Aug. 24, 1875	765	237	8	333
160, 385	Bradford, Jeremiah B. (See Ferry, George H., assignor.)	Mar. 2, 1875	112	41	7	365
170, 810	Bradford, Lemuel, 2d, Plymouth, Mass. Machine for making the shank-pieces of boots and shoes	Dec. 7, 1875	140	46, 47	8	969
166, 962	Bradford, Louisa. (See Slichter, Joseph D., assignor.)	May 4, 1875	5	2	7	747
160, 385	Bradford, Oliver K., Boston, Mass. Paper picture-frame	Aug. 24, 1875	765	237	8	333
170, 810	Bradford, William, Valdosta, Ga. Plow	Mar. 2, 1875	112	41	7	365
166, 962	Bradford, William A., Goshen, Ind. School-slate	Dec. 7, 1875	140	46, 47	8	969
159, 383	Bradlee, Dudley H., et al. (See Shinn, John, assignor.)	Feb. 2, 1875	126	44	7	202
164, 134	Bradley & Hubbard. (See Bradley, Nathaniel L., assignor.) (Design.)	June 8, 1875	282	96	7	980
163, 973	Same..... (See Plympton, Nathaniel, assignor.)	June 1, 1875	111	38	7	946
167, 215	Same..... (See Leidensticker, Frederick R., assignor.) (Design.)	Aug. 31, 1875	1026	319	8	376
168, 133	Bradley & Hubbard Manufacturing Company. (See Evarts, John A., assignor.)	Sept. 28, 1875	728	229	8	532
8, 057	Same..... (See Linsley, Charles F., assignor.)	Feb. 16, 1875	...	...	7	261
8, 328	Same..... (See Lyman, Charles H., assignor.)	May 18, 1875	...	...	7	837
8, 481	Bradley, Baldwin L., Woodstock, Canada, assignor to self and James H. Fletcher, Alpena, Mich. Hot-air furnace	July 13, 1875	...	...	8	48
163, 915	Bradley, John A. (See Wells, Daniel A., assignor.)	June 1, 1875	64	22	7	939
168, 869	Bradley, Maria, New York, N. Y. Rubber drawers for invalids	Oct. 19, 1875	533	175	8	656
170, 660	Same..... Portable lunch-heater	Dec. 7, 1875	6	2	8	951
164, 421	Bradley, Nathaniel L., assignor to Bradley & Hubbard, West Meriden, Conn. Window-bracket. (Design)	June 15, 1875	567	184	7	1026
169, 515	Bradley, Nathaniel L., assignor to Bradley & Hubbard Manufacturing Company, West Meriden, Conn. Lamp-pedestal. (Design)	Nov. 2, 1875	174	57	8	758
160, 076	Bradley, Nathaniel L., assignor to Bradley & Hubbard Manufacturing Company, West Meriden, Conn. Lamp-pedestal. (Design)	Feb. 23, 1875	816	268	7	316
165, 438	Bradley, Robert F., Moffettsville, S. C. Station for sub marine telegraphs	July 13, 1875	309	91	8	58
168, 605	Bradley, Samuel. (See Dinkey, Embury & Bradley.)	Oct. 11, 1875	287	93	8	612
6, 573	Bradshaw, Francis A., Lebanon, Mo. Weather-strip	Aug. 3, 1875	252	76	8	235
167, 638	Brady, Patrick, and George M. Ward, Newark, N. J. Sewer-basin	Sept. 14, 1875	242	75	8	447
162, 892	Braeunlich, William, New York, N. Y. Cooling apparatus for rooms	May 4, 1875	140	46	7	765
170, 337	Bragg, Ella C., Lynn, Mass. Arm-pit shield	Nov. 23, 1875	1006	316	8	891
169, 516	Bragg, Perry C., Mayfield, Ky. Railway-switch	Nov. 2, 1875	174	58	8	758
170, 153	Bragg, Robert, San Francisco, Cal. Gong attachment for engine-houses	Nov. 23, 1875	845	264	8	867
170, 619	Bragonier, Alfred, Middletown, Md. Clothes-drier	Nov. 30, 1875	1287	407	8	937
159, 889	Brahn, James, Jersey City, N. J. Railway-frog. (Reissue)	Feb. 16, 1875	628	208	7	283
171, 092	Braids, Charles, Copperopolis, Cal. Ore crusher and amalgamator	Dec. 14, 1875	411	137	8	1013
167, 216	Braidwood, William, New York, N. Y. Gilding-machine	Aug. 31, 1875	1027	319	8	376
160, 301	Braiwood, William, Mount Vernon, N. Y. Machine for perforating paper	Mar. 2, 1875	38	15	7	354
162, 893	Brainard, Amos H., Hyde Park, Mass. Vise	May 4, 1875	142	46	7	765
169, 336	Braman, Joseph U., Boston, Mass. Machinery for lining hydraulic hose	Nov. 2, 1875	12	4	8	736
167, 737	Brambach, Stephen, New York, N. Y. Music-rack for upright piano-fortes	Sept. 14, 1875	326	...	8	459
164, 420	Bramble, James, jr., assignor to William G. Entrekin, Philadelphia, Pa. Burnishing-plate for photographic burnishers	Feb. 25, 1875	...	...	7	515
169, 140	Branch, Joseph W. (See Morse, Edmund L., assignor.)	June 15, 1875	567	184	7	1026
163, 631	Same..... (See Squire, John J., assignor.)	Oct. 26, 1875	808	202	8	702
160, 077	Branch, Joseph W., Saint Louis, Mo. Process or mode of fitting diamonds in metallic holders	May 25, 1875	880	277	7	893
160, 078	Brancher, Daniel L., Lincoln, and Jacob L. Ring, Mount Pulaski, Ill. Smoke and cinder-conductor	Feb. 23, 1875	817	268	7	316
166, 253	Brand, Charles A., Wilmington, Del., assignor of one-half interest to James A. Hooper, jr., Baltimore, Md. Machine for turning axles	Feb. 23, 1875	818	269	7	310
165, 151	Brand, Henry, Saint Paul, Minn. Tenoning-machine	Aug. 3, 1875	63	20	8	208
6, 418	Brand, Louis P., assignor of one-half interest to Auguste Willoz, New Orleans, La. Medical composition	July 6, 1875	5	2	8	9
159, 148	Brand, Nathan, Ilion, N. Y. Manufacture of hoe-blanks. (Extension)	May 4, 1875	250	80, 81	7	780
170, 338	Brandeis, Ludwig, Brooklyn, N. Y. Range-boiler stand	Jan. 26, 1875	779	256	7	153
163, 729	Brandou, Alexander, New York, N. Y. Railway-car window	Nov. 23, 1875	1007	316	8	291
165, 785	Brandou, Chauncey E. (See Schenck, George W., assignor.)	May 25, 1875	960	...	7	903
167, 980	Brandt, Adam. (See Brandt, Louis, assignor.)	July 20, 1875	641	197	8	121
168, 711	Brandt, Adam, New York, N. Y. Cooling-floor for breweries	Sept. 21, 1875	549	177	8	501
167, 060	Brandt, Louis, assignor of one-half interest to Adam Brandt, New York, N. Y. Slate roof	Oct. 11, 1875	382	125	8	626
160, 078	Branig, Julius M., New York, N. Y. Tuning-pin for pianos, &c	Aug. 24, 1875	861	268	8	346
165, 151	Branigan, Thomas, Beloit, Wis. Boot-tree	...	...	...	...	...
6, 418	Branson, Jesse L., and August Juergens, Cincinnati, Ohio. Spring-bottom for beds. (Reissue)	...	...	...	...	...
159, 148	Brant, James M., et al. (See Chase, Frank, assignor.)	...	...	...	...	...
170, 338	Brass, Robert. (See Koch & Brass.)	...	...	...	...	...
163, 729	Brand, Joseph C., Thibodeau, La. Rice-planter	...	...	...	...	...
165, 785	Brauer, Louis, Philadelphia, Pa. Car-axle box	...	...	...	...	...
167, 980	Braun, Otto, Berlin, Prussia. Treating wool, &c., to free it from impurities	...	...	...	...	...
168, 711	Same..... Apparatus for purifying gas	...	...	...	...	...
167, 060	Braunlich, Herrmann, Stretator, Ill. Ice-floor for refrigerators	...	...	...	...	...
168, 711	Brauns, Thilo, Chicago, Ill. Pessary	...	...	...	...	...
167, 060	Brauson, Benjamin, assignor to self and Joseph and Levi Brauson, Barnesville, Ohio. Force and suction pump	...	...	...	...	...

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Brauson, Joseph, <i>et al.</i> (See Brauson, Benjamin, assignor.)					
	Brauson, Levi, <i>et al.</i> (See Brauson, Benjamin, assignor.)					
163, 632	Bray, John W., La Harpe, Ill. Milk-strainer	May 25, 1875	881	277	7	893
161, 659	Bray, Mellen, Newton, Mass. Rivet-setting machine	Apr. 6, 1875	60	22	7	578
161, 660	Same..... Riveting-machine	Apr. 6, 1875	63	23	7	578
166, 963	Same..... Machine for drilling rivets	Aug. 24, 1875	766	237	8	333
170, 703	Same..... Paint-can	Dec. 7, 1875	46	13	8	957
163, 730	Bray, Morris P., Birmingham, Conn. Skirt-supporter	May 25, 1875	961	304	7	903
167, 738	Brayton, Robert, David June, and Oratus S. French, Fremont, Ohio. Spark-arrester	Sept. 14, 1875	326	104	8	459
	Brayton, William M. (See Dobbs & Brayton.)					
	Brear, Abel, <i>et al.</i> (See Clark, Joseph, assignor.)					
162, 613	Brear, Abel, Saugatuck, assignor of one-half interest to Frank L. Smith, New Haven, Conn. Water-elevator	Apr. 27, 1875	964	310	7	752
162, 792	Brechbiel, John E., Highland Falls, N. Y. Cigar-wrapper knife	May 4, 1875	56	18	7	754
162, 614	Breckenridge, Elias K., West Meriden, Conn. Fastener for the meeting-rails of sashes	Apr. 27, 1875	965	310	7	722
170, 047	Same..... same	Nov. 16, 1875	716	227	8	844
160, 386	Breckenridge, R. Moss, West Meriden, Conn. Stove-pipe damper	Mar. 2, 1875	113	41	7	365
165, 914	Breed, Amos, La Harpe, Ill. Wood pump	July 27, 1875	781	239	8	153
171, 500	Breed, Charles H., Massillon, Ohio. Valve-gear for steam-engines	Dec. 28, 1875	840	275	8	1086
	Breed, Daniel. (See Dugdale & Breed.)					
	Same..... (See Redstone, Albert E., assignor.)					
	Brehmer, August. (See Heyl & Brehmer.)					
169, 407	Breidenbach, Conrad W., and Edward E. Euchenhofer, Dayton, Ohio. Door-check	Nov. 2, 1875	80	25	8	745
166, 182	Breneman, Abraham N., Lancaster, Pa. Boot-holder	Aug. 3, 1875	2	1	8	199
167, 821	Brenner, Rudolph, assignor to Henry Varwig, Cincinnati, Ohio. Vent-faucet	Sept. 21, 1875	421	134	8	481
167, 822	Brettell, Edward W., assignor to Henry L. Fleming, Elizabeth, N. J. Sash-fastener	Sept. 21, 1875	422	134	8	481
169, 233	Brettell, Enoch, and James Lindsey, Evansburgh, assignors to George B. Slater and J. N. Dunham, Fredonia, and Amos Palmer, Pine Grove, Pa. Motive-power	Oct. 26, 1875	888	288 289	8	713
	Brouer, Theodore. (See Kuessner & Brouer.)					
6, 721	Breval, Lawrent, Paris, France. Apparatus for expressing liquids	Nov. 2, 1875	274	89	8	771
	Brewer, George G. (See Burras, Edward J. W., assignor.)					
169, 081	Brewer, Roland L., assignor to Henry G. Thompson, Milford, Conn. Wire-feeding mechanism	Oct. 26, 1875	751	244	8	694
162, 615	Brewer, Russell, New York, N. Y., assignor of part interest to C. M. Morrison, A. J. Dunning, and Warren A. Sherwood, Saint Louis, Mo. Car-axle box	Apr. 27, 1875	966	310	7	722
6, 278	Brewster & Co., J. B. (See Plumb, Freeman B., assignor.)					
	Brewster, John C., New York, N. Y., assignor of part interest to Peter Himrod and Daniel Peters. Desulphurizing-oven	Feb. 9, 1875	471	158	7	258
159, 384	Brewster, John C., New York, N. Y. Desulphurizing-oven	Feb. 2, 1875	127	44	7	202
	Brewster, Lewis E. (See Relyea, Jerome B., assignor.)					
165, 786	Brez, John D., Brooklyn, N. Y. Stem-winding watch	July 20, 1875	642	197	8	121
169, 082	Brice, George A., Townville, Pa. Carriage-painter's jack	Oct. 26, 1875	752	245	8	694
168, 828	Brick, Alfred H., Winchendon, Mass., assignor of one-half interest to Francis Brick, Keene, N. H. Chair	Oct. 19, 1875	408	162	8	651
	Brick, Francis. (See Brick, Alfred H., assignor.)					
158, 619	Brickett, William H., Boston, Mass. Clock-movement holder	Jan. 12, 1875	252	85	7	60
164, 799	Bridenthall, Harry H., jr., Latrobe, Pa. Harvester	June 22, 1875	910	295 296	7	1081
170, 433	Same..... Harvester-rake	Nov. 30, 1875	1110	349	8	913
166, 183	Bridge, Edward W., assignor to William K. Ferguson and James M. Bennett, Philadelphia, Pa. Box-fastening	Aug. 3, 1875	3	1	8	199
	Bridgeport Brass Company. (See Marcy, John J., assignor.)					
	Same..... (See Wilnot, Samuel R., assignor.)					
165, 704	Bridges, Charles, Lowell, Mass. Bench-plane	July 20, 1875	567	173	8	111
167, 639	Bridges, Christopher M., assignor to self and Creed Bobbitt, Leon, Iowa. Feed-water regulator	Sept. 14, 1875	243	75	8	447
	Bridgewater Iron Company. (See Ferguson, James, assignor.)					
160, 079	Bridgman, Irwin, Toronto, Canada. Passenger-car	Feb. 23, 1875	819	269	7	316
168, 712	Bridgman, Charles F., Brooklyn, N. Y., assignor of two-thirds interest to John H. Haulenbeck, Norwalk, and Frank P. Rice, Danbury, Conn. Ventilating-screen for car windows	Oct. 11, 1875	382	125	8	626
	Briedbach, Carl. (See Briedbach, Casper J. and Carl.)					
168, 134	Briedbach, Casper J. and Carl, New York, N. Y. Process of preparing carmine printing-ink	Sept. 28, 1875	729		8	532
166, 450	Brierley, Edward, Milton Mills, N. H. Frame for dyeing cloth	Aug. 10, 1875	275	82	8	245
	Brigden, George B. (See Brackett, Marrick C., assignor.)					
	Briggs, Alanson T., <i>et al.</i> (See Smith, Heman S., assignor.)					
	Briggs, Arthur E. (See Briggs, William H. and Arthur E.)					
	Briggs, Charles E. (See Palmer & Briggs.)					
169, 141	Briggs, Edward W., and Aaron V. De Pew, New York, N. Y. Marine-engine governor	Oct. 26, 1875	809	262	8	702
159, 149	Briggs, Harrison T., Buchanan, Mich. Spoke-socket and felly-plate	Jan. 26, 1875	781	256	7	153
170, 434	Briggs, Henry H., Olmsted, Ohio. Tongue-support	Nov. 30, 1875	1111	350	8	913
162, 616	Briggs, Johnson, assignor of one-half interest to William S. Finch, Toronto, Canada. Ventilating cars and buildings	Apr. 27, 1875	967	311	7	722
	Briggs, Joseph, <i>et al.</i> (See Briggs, William H. and Arthur E., assignors.)					
	Briggs, King D. (See Roberts & Briggs.)					
169, 337	Briggs, Martin, Rochester, N. Y. Safe and vault door	Nov. 2, 1875	14	4	8	736
163, 569	Briggs, Robert, Philadelphia, Pa. Center-valve for gas-purifiers	May 25, 1875	821	260	7	885
164, 901	Briggs, William, assignor to George C. Winchester, Ashburnham, Mass. Machine for bending wood	June 29, 1875	1028	332	7	1103
170, 048	Briggs, William H., Woonsocket, R. I. Scroll-saw	Nov. 16, 1875	717	227	8	844
164, 516	Briggs, William H., Chicago, Ill., and Arthur E. Briggs, assignors, by mesne assignments, to Joseph Briggs and Post & Co., Cincinnati, Ohio. Locomotive head-light	June 15, 1875	647	209	7	1037
	Brigham, Byron O., <i>et al.</i> (See Christy, John, assignor.)					
164, 963	Brigham, Charles H., Marlborough, Mass. Die for cutting boot and shoe rands	June 29, 1875	1083	349	7	1110
	Brigham, Litchfield & Vining. (See Look, Joseph, assignor.)					
167, 493	Bright, John D., and Jasper N. De Guire, Terrell, Tex. Churn-dasher	Sept. 7, 1875	97	30	8	420
162, 617	Brightman, Albert, assignor of one-half interest to Josiah S. Bonney, New Bedford, Mass. Bake-pan	Apr. 27, 1875	968	311	7	722
161, 322	Briglin, Willard W., Avoca, N. Y. Mowing-machine	Mar. 30, 1875	1025	333	7	521
167, 385	Brill, George M., Philadelphia, Pa. Car-platform	Sept. 7, 1875	4	2	8	407
166, 744	Brimhall, Horace J., jr., assignor to self and Samuel E. Foster, Millington, Ill. Wind-wheel	Aug. 17, 1875	552	169	8	294
161, 745	Brimingham, Green B., Trenton, Tenn. Plow-standard fastening	Apr. 6, 1875	135	46	7	538
158, 397	Brinckerhoff, Edwin O., New York, N. Y. Steam-condenser	Jan. 5, 1875	40	15	7	14
158, 896	Same..... Water-closet	Jan. 19, 1875	524	175	7	112

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 297	Brinckerhoff, Edwin O., New York, N. Y. Water-closet valve	Feb. 2, 1875	48	18	7	191
159, 298	Same..... Range.....	Feb. 2, 1875	49	18, 19	7	191
159, 788	Same..... Cooking-stove	Feb. 16, 1875	532	{ 177 178 }	7	271
165, 472	Brinckerhoff, Henry W., Brooklyn, N. Y. Elevator	July 13, 1875	344	101	8	62
159, 559	Briner, Emil, New York, N. Y. Die for forming spring-shanks for shoes	Feb. 9, 1875	313	102	7	235
163, 146	Bringman, George E., Philadelphia, Pa. Umbrella-runner	May 11, 1875	396	128	7	806
163, 570	Same..... Cartridge-box	May 25, 1875	822	260	7	885
6, 200	Brinkerhoff, Alexander W., Upper Sandusky, Ohio. Inkstand..... (Reissue)	Jan. 5, 1875	182	63	7	34
170, 517	Brinkerhoff, Amos, Golden Corners, Ohio. Swinging and tilting gate.....	Nov. 30, 1875	1187	374	8	924
159, 150	Brinkerhoff, George F., Bucyrus, Ohio. Stove-pipe collar and thimble.....	Jan. 26, 1875	781	256	7	154
6, 816	Brinkerhoff, Jacob, Auburn, N. Y., assignor, by mesne assignments, to self, Charles M. Howlet, Elon C. Denio, and John I. Brinkerhoff. Wringer..... (Reissue)	Dec. 21, 1875	789	261	8	1071
170, 226	Brinkerhoff, Jacob, George B. Bennett, and La Fayette Selder, Dubuque, Iowa. Car-coupling	Nov. 23, 1875	909	283	8	876
167, 602	Brinkerhoff, John I., et al. (See Brinkerhoff, Jacob, assignor)..... (Reissue)	Sept. 14, 1875	211	65	8	443
170, 516	Brinkerhoff, Marion, Mansfield, Ohio. Soot-arrester for chimneys.....	Nov. 30, 1875	1187	374	8	923
	Brinly, Thomas E. C., Louisville, Ky. Plow.....					
	Brintnall, Thomas M., et al. (See Macy, Egbert, assignor.)					
	Brintnall, Thomas M. (See Wayland, James, assignor.)					
	Bristol Brass and Clock Company. (See Rhind, Frank, assignor.)					
	Same..... (See Taplin, Alvin, assignor)..... (Reissue)					
169, 234	Bristol, Charles B., New Haven, Conn. Snap-hook.....	Oct. 26, 1875	889	289	8	713
166, 254	Bristol, Dwight W., and John F. B. Searcy, Pleasant Hill, Miss. Cotton, corn, and pea planter	Aug. 3, 1875	64	20	8	208
158, 897	Bristor, Thomas G. (See Keating & Bristor.)					
8, 846	Brittain, Richard J., assignor to John Middleton, Newark, and John J. Thatcher, Caldwell, N. J. Electro-magnetic burglar-alarm.....	Jan. 19, 1875	525	176	7	112
8, 867	Brittin, Edwin L., Derby, Conn. Handle of table-cutlery..... (Design)	Dec. 14, 1875			8	988
	Britton, Benjamin F., New York, N. Y. Band-comb..... (Design)	Dec. 28, 1875			8	1076
	Britton, Isaac W., et al. (See Prouty, Henry A., assignor.)					
	Britton, John W., et al. (See Prouty, Henry A., assignor.)					
159, 493	Britton, Joseph W., and Franklin L. Chamberlin, Cleveland, Ohio. Machine for cutting shingle-bands	Feb. 9, 1875	251	81	7	227
161, 744	Broadbent, Sidney, Charles W. Zeigler and Willard B. Culver, Scranton, Pa. Apparatus for separating slate from coal	Apr. 6, 1875	134	46	7	588
166, 844	Broadbooks, Peter, Batavia, N. Y. Mechanical movement	Aug. 17, 1875	636	198	8	307
170, 934	Same..... Combined implement.....	Dec. 14, 1875	264	88	8	993
167, 981	Broadwell, Lewis W., Heitzing, near Vienna, Austria. Gas-check for ordnance	Sept. 21, 1875	550	177	8	501
169, 614	Broas, Richard M. C., Jersey City, N. J., assignor of three-fourths interest to Jacob Kohlberg and Thaddeus H. Walsh, New York, N. Y., and John P. Culver, Jersey City, N. J. Pipe.....	Nov. 9, 1875	352	111	8	789
171, 346	Same..... Process for making veneer-pipes.....	Dec. 21, 1875	675	223	8	1055
171, 347	Same..... Machine and process for making veneer-pipes.....	Dec. 21, 1875	676	223	8	1055
159, 494	Brock, Simon O., Watertown, Mass. Manufacture of cornices.....	Feb. 9, 1875	252	82	7	227
161, 746	Brock, William E., Philadelphia, Pa. Lumber.....	Apr. 6, 1875	136	47	7	588
169, 619	Brock, William H., Hunter's Point, assignor to Jabez A. Bostwick, New York, N. Y. Apparatus for making paper vessels	Nov. 9, 1875	294	95	8	782
169, 620	Same..... Paper-tube machine.....	Nov. 9, 1875	295	95	8	782
167, 061	Brockett, A. E. (See Hurd, George H., assignor.)					
158, 898	Brockett, Charles A., Kansas City, Mo. Earth-anger.....	Aug. 24, 1875	862	268	8	346
171, 468	Brockett, Leonard A., Salisbury, N. Y. Potato-digger	Jan. 19, 1875	526	176	7	112
161, 925	Brockman, Henry, and Henry Stueve, Cincinnati, Ohio. Limekiln.....	Dec. 28, 1875	803	265	8	1081
	Brocksmith, Herman, Saint Louis, Mo., assignor of one-half his interest to Ernest Quast, Jerseyville, Ill. Lifting-jack.....	Apr. 13, 1875	309	103	7	624
162, 216	Brockunier, Charles W. (See Hobbs & Brockunier.)					
162, 618	Brockunier, Charles W., Bridgeport, Ohio. Manufacture of glassware	Apr. 20, 1875	579	190	7	665
170, 661	Brodehead, Francis D., assignor to self and Francis F. Lauten, Boston, Mass. Can	Apr. 27, 1875	969	311	7	722
164, 713	Brodin, Peter A., et al. (See Tinnerholm, Charles J., assignor.)					
7, 969	Brodnax, David W., sr., Rockdale, Tex. Rotary-spade cultivator	Dec. 7, 1875	7	2	8	932
162, 793	Brodick, Charles, Champaign County, Ill. Harrow.....	June 22, 1875	836	272	7	1071
	Bromley & Sons, John. (See Hill & Deacon, assignors)..... (Design)					
	Bromwell, William T., Saint Louis, Mo. Advertising-desk..... (Design)	Jan. 5, 1875			7	5
	Bronner, August F., New York, N. Y. Refrigerator.....	May 4, 1875	56	18	7	754
	Bronson & Co., E. D. (See Walrath, Alphonso, assignor.)					
	Bronson, Edward D. (See Walrath & Bronson.)					
160, 567	Bronson, Edward D., Amsterdam, N. Y. Broom-bag	Mar. 9, 1875	292	99	7	399
169, 768	Bronson, James W. (See Hartson & Bronson.)					
162, 894	Bronson, Thomas J., and Thomas N. Jewsbury, Jacksonville, Ill. Whip	Nov. 9, 1875	454	143	8	802
164, 517	Brooke, Aries P., Bayonne, N. J., assignor to James M. Brookfield, New York, N. Y. Machine for pressing and molding glass.....	May 4, 1875	143	46	7	766
166, 495	Same..... Mold for glass, &c.....	June 15, 1875	648	210	7	1037
167, 873	Brooke, Firmen C., Gilman, Ill. Vehicle end-gate	Aug. 10, 1875	311	93	8	250
159, 495	Brooke, Howard A., and William F. Wright, Albany, N. Y. Coal-tar burner.....	Sept. 21, 1875	468	{ 148 149 }	8	488
170, 339	Brooke, William E., Trenton, N. J. Punching-press.....	Feb. 9, 1875	252	82	7	227
170, 049	Brookfield, James M. (See Brooke, Aries P., assignor.)					
165, 535	Brookfield, James M., Brooklyn, N. Y. Process of annealing glass	Nov. 23, 1875	1008		8	891
	Brooks, Charles E., Marshall, Mich. Cog-wheel	Nov. 16, 1875	718	228	8	844
	Brooks, David, Philadelphia, Pa. Underground-telegraph line	July 13, 1875	399	120	8	71
	Brooks, Edward. (See Naylor & Brooks.)					
	Brooks, Edward J. (See Hamilton, Fred. C., assignor.)					
161, 475	Brooks, Edward J., New York, N. Y. Metallic seal	Mar. 30, 1875	1169	376	7	539
164, 809	Same..... Seal-escutcheon.....	June 22, 1875	914	296	7	1081
165, 062	Same..... Punch.....	June 29, 1875	1165	375	7	1121
159, 890	Brooks, Franklin W., assignor to National Ballot-Box Company, New York, N. Y. Ballot-box	Feb. 16, 1875	629	{ 208 209 }	7	283
167, 982	Brooks, Franklin W., New York, N. Y. Registering and recording machine.....	Sept. 21, 1875	551	{ 177 178 }	8	501
169, 517	Brooks, George A., Norwich, Conn. Clothes-drier.....	Nov. 2, 1875	175	58	8	759
	Brooks, George D., et al. (See Brooks, William D., assignor.)					
	Brooks, George J. (See Brooks, William F., assignor.)					
160, 870	Brooks, James, Trumansburgh, N. Y. Vegetable-washer.....	Mar. 16, 1875	582	189	7	446
	Brooks, James A. (See Groover, Joseph M., assignor.)					
	Brooks, James D. (See Siler & Brooks, assignors.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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163, 449	Brooks, James M. (See Brooks & Lavender.) Brooks, James S., Pittsburgh, Pa. Backing electrotype-shells. Brooks, James W., trustee. (See Glidden & Simmons, assignors.) Same. (See Elliott, Fellows & Simmons, assignors.) Same. (See McKay, Fairfield & Glidden, assignors.)	May 18, 1875	690	220	7	861
168, 713	Brooks, John T., Berlin, and James F. Mcrell, Tuckahoe, N. J. Shade-fixture.	Oct. 11, 1875	383	125	8	626
163, 147	Brooks, Mary C., et al. (See Brooks, William D., assignor.)					
162, 148	Brooks, Mott B., assignor to John M. Gill, Brockville, Canada. Combination padlock.	May 11, 1875	397	128	7	806
159, 637	Brooks, Reuben J., jr., Rutland, Mass. Machine for shaving basket-stuff.	Apr. 20, 1875	517	170	7	658
168, 606	Brooks, Rhodom M. and James M., and James S. Lavender, Barnsville, Ga. Cotton-press.	Feb. 9, 1875	371	123	7	244
	Brooks, Stephen H., assignor of one-half interest to Charles Bonsall, Darby, Pa. Glass burial-cases.	Oct. 11, 1875	288	94	8	612
161, 200	Brooks, Thomas A. (See Siler & Brooks.) Brooks, William D., assignor to Mary C. and George D. Brooks, Baltimore, Md. Soldering-machine.	Mar. 23, 1875	884	290	7	495
163, 148	Brooks, William F., New York, N. Y., assignor to George J. Brooks, Brattleborough, Vt. Core for tubing.	May 11, 1875	398	128	7	807
169, 142	Brosius, George W., Gallatin, Mo. Portable vapor-bath.	Oct. 26, 1875	810	263	8	702
159, 385	Brosius, John M., Richmond, Va. Car-truck.	Feb. 2, 1875	128	45	7	202
159, 386	Same. Railway-car-axle box.	Feb. 2, 1875	128	45	7	202
	Brotherhood, Fred. (See Kittoe & Brotherhood.) Same. (See Osgood & Brotherhood.)					
168, 963	Brothwell, Charles R., et al. (See Rebstock, Christian, assignor.)					
158, 859	Broughton, David T., Parkersburgh, W. Va. Paper-trimming machine.	Oct. 19, 1875	619	205	8	668
166, 586	Brous, John, Brooklyn, N. Y. Breech-loading fire-arm.	Jan. 19, 1875	527	177	7	112
	Brous, T. Miles, Philadelphia, Pa. Plow.	Aug. 10, 1875	384	119	8	261
	Brower, Bloomfield, et al. (See Adams, John T., assignor.) Brower, Bloomfield. (See Jenckes, Charles M., assignor.) (Design.) Brower, Bloomfield, New York, N. Y. Inkstand. (Design.)	Aug. 31, 1875			8	364
8, 583	Same. Base for inkstands. (Design.)	Sept. 28, 1875			8	521
8, 672	Same. Inkstand. (Design.)	Dec. 28, 1875			8	1076
8, 868	Same. same. (Design.)	Dec. 28, 1875			8	1076
8, 869	Same. same. (Design.)	Jan. 12, 1875	253	86	7	60
158, 620	Same. Spurge-cup.					
159, 560	Brower, Edwin A. (See Brower, George S., George W., and Edwin A.) Brower, George S., George W., and Edwin A., Crawfordsville, Ind. Wheel-cultivator. Brower, George W. (See Brower, George S., George W., and Edwin A.) Brower, John V., et al. (See Adams, John T., assignor.)	Feb. 9, 1875	314	102	7	235
8, 870	Brower, John V., New York, N. Y. Base for inkstands. (Design.)	Dec. 28, 1875			8	1076
164, 968	Brower, William W., New York, N. Y. Jar-lifter.	June 29, 1875	1088	350	7	1110
165, 206	Brown, Alanson, Rochester, N. Y. Picture-frame hanger.	July 6, 1875	63	18	8	17
6, 441	Brown, Albert, assignor, by mesne assignments, to Daniel E. Paris and Swett, Quimby & Perry, Troy, N. Y. Heating-stove. (Reissue.)	May 25, 1875	1050	333	7	916
165, 705	Brown, Alden B., and Perry A. Peer, Kalamazoo, Mich.; said Brown assignor to said Peer. Line-fastener.	July 20, 1875	568	173	8	111
164, 135	Brown, Alexander E., Cleveland, Ohio. Compression member of bridges.	June 8, 1875	282	96	7	980
164, 136	Same. same.	June 8, 1875	283	97	7	980
164, 137	Same. Compound iron column for bridges.	June 8, 1875	284	97	7	980
163, 356	Brown, Alva P., Texas, Ohio. Spring bed-bottom.	May 18, 1875	612	195	7	850
	Brown, Amos C. (See Fisher & Brown.) Brown & Brothers. (See White, Le Roy S., assignor.) (Design.) Brown, Andrew, Lancaster County, Pennsylvania, assignor of one-half interest to J. B. and B. B. Denhager. Car-coupling.	Nov. 23, 1875	909	283	8	876
167, 217	Brown, Bartlett W., Galveston, Tex. Swinging berth.	Aug. 31, 1875	1028	319	8	376
167, 983	Brown, Benjamin F., Catlin, Ind. Rein-holder.	Sept. 21, 1875	552	178	8	501
160, 643	Brown, Charles, New York, N. Y. Chair-seat.	Mar. 9, 1875	357	120	7	409
169, 518	Same. Baling short-cut hay.	Nov. 2, 1875	176	59	8	749
169, 498	Brown, Charles A., Troy, N. Y. Machine for cutting paper collars.	Nov. 2, 1875	81	25	8	746
	Brown, Charles E. (See Vermillion, John W., assignor.) Brown, Charles F. (See Flagler & Brown.) Brown, Charles H., Boston, assignor of one-half interest to Fred. C. Anthes, Melrose, Mass. Ink-well.	Apr. 13, 1875	309	103	7	624
170, 811	Brown, Charles H., Richmond, Va. Car-axle-box washer.	Dec. 7, 1875	141	47	8	969
169, 769	Brown, Charles S., Baltimore, Md. Cigar-box.	Nov. 9, 1875	455	143	8	802
164, 964	Brown, Charlotte, Hartford, Conn. Food-preserver.	June 29, 1875	1084	349	7	1110
165, 152	Brown, Christopher A., Brooklyn, and Charles E. Sedore, New York, N. Y. Saw.	July 6, 1875	6	2	8	9
171, 265	Brown, Daniel M. D., Cropper's Depot, Ky. Churn.	Dec. 21, 1875	608	199	8	1046
6, 547	Brown, Darius C., Lowell, Mass. Wire heddle for looms. (Reissue.)	July 20, 1875	767	234	8	139
165, 473	Brown, David, Lebanon, N. J. Apparatus for transmission of goods, packages, &c.	July 13, 1875	345	101	8	62
	Brown, E., et al. (See Ivin, Thomas W., assignor.) Brown, Edward, New York, N. Y. Lamp-fount.	June 29, 1875	1085	349	7	1110
168, 870	Brown, Edward, Philadelphia, Pa. Speed-measure.	Oct. 19, 1875	533	175	8	656
168, 369	Brown, Edward L., Plainfield, N. J. Horse-shoe.	Oct. 5, 1875	47	17	8	571
171, 348	Brown, Eleazar, Greenville, Pa. Carriage-wheel.	Dec. 21, 1875	678	224	8	1056
161, 661	Brown, Elias, Wappinger's Falls, N. Y. Comb.	Apr. 6, 1875	65	23	7	578
163, 296	Brown, Ephraim, Lowell, Mass. Buhl-saw.	May 18, 1875	555	178	7	843
167, 429	Brown, Felix S., Jersey City, N. J. Umbrella-tip cup.	Sept. 7, 1875	47	14	8	412
	Brown, Franklin H. (See Seymour, Oliver E., assignor.) Brown, Frederick A., and Albert H. Watkins, Boston, Mass. Vapor-burner for lanterns.	May 25, 1875	822	278	7	893
159, 299	Brown, Frederick M., Warren, R. I. Steam-engine governor.	Feb. 2, 1875	51	19	7	191
	Brown, George, et al. (See Ewald, Robert, assignor.) Brown, George H., and Robert C. Davis, Indianapolis, Ind. Fracture-splint.	Mar. 30, 1875	1025	334	7	521
6, 384	Brown, George W., deceased. (See Beckwith & Brown.) Brown, George W., Galesburgh, Ill. Seed-planter. (Reissue.)	Apr. 20, 1875	807	262	7	693
6, 385	Same. same. (Reissue.)	Apr. 21, 1875	809	263	7	693
6, 755	Same. same. (Reissue.)	Nov. 23, 1875	1093	343	8	902
6, 756	Same. same. (Reissue.)	Nov. 23, 1875	1094	344	8	903
6, 757	Same. same. (Reissue.)	Nov. 23, 1875	1095	344	8	903
160, 080	Brown, George W., Metropolis, Ill. Flour and middlings purifier.	Feb. 23, 1875	820	269	7	316
161, 859	Brown, George W., New York, N. Y. Animal-trap.	Apr. 13, 1875	246	82	7	616
162, 895	Brown, George W., Ashburnham, Mass. Screen.	May 4, 1875	144	46	7	766
163, 297	Brown, George W., Philadelphia, Pa. Cigar-box tray. Brown, Harriet W., administratrix. (See Beckwith & Brown.) Brown, Henry. (See Smith & Brown.) (Design.)	May 18, 1875	557	178	7	843

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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8, 484	Brown, Henry C., New York, N. Y. Stove-cover lifter (Design) ..	July 13, 1875			8	49
170, 812	Brown, Henry J., Troy, N. H. Clothes-drier	Dec. 7, 1875	141	47	8	969
169, 888	Brown, Horace G., Collinsville, Conn. Trace-coupling	Nov. 16, 1875	582	180	8	825
161, 002	Brown, Isaac W., Glenville, Md., assignor of one-half interest to John Lynch, jr., Port- land, Me. Combined globe and check valve	Mar. 23, 1875	705	233	7	472
161, 662	Brown, Israel F., New London, Conn. Clothes-wringer	Apr. 6, 1875	66	24	7	578
	Brown, James. (See Rollason & Brown.)					
166, 964	Brown, James, jr., Matteawan, N. Y. Cloth-measure register	Aug. 24, 1875	769	237	8	333
165, 207	Brown, James B., Hannibal, Mo. Pump-chain adjuster	July 6, 1875	64	18	8	17
	Brown, James C. (See Gibbs & Brown.)					
160, 810	Brown, James H., Porter's Mills, Wis. Barrel-barrow	Mar. 16, 1875	535	173	7	439
162, 794	Same..... Whiffletree	May 4, 1875	57	18	7	754
162, 795	Same..... Low-water indicator	May 4, 1875	57	18	7	754
170, 519	Brown, James M., Salem, Mass. Dish-cloth holder	Nov. 30, 1875	1189	375	8	924
170, 228	Brown, James O., assignor of part interest to Edwin Bayliss, Pliny F. Hodges, and François T. Lomont, Massillon, Ohio. Harvester	Nov. 23, 1875	910	284	8	876
170, 229	Same..... same	Nov. 23, 1875	912	284	8	876
170, 230	Same..... Shock-carriage attachment to harvesters	Nov. 23, 1875	913	284	8	877
170, 231	Same..... Harvesting-machine	Nov. 23, 1875	914	284	8	877
169, 949	Brown, Jerome B. and Sarah W., Willoughby, Ohio. Ointment	Nov. 16, 1875	634	.....	8	832
162, 269	Brown, John, Buffalo, N. Y. Middlings-purifier	Apr. 20, 1875	630	205	7	672
158, 568	Brown, John A., Boston, Mass. Fare-registering device	Jan. 12, 1875	206	70	7	53
171, 264	Brown, John H., New York, N. Y. Machine for creasing fluted fabrics	Dec. 21, 1875	607	199	8	1046
164, 966	Brown, John L., assignor of one-half interest to William F. Robinson, Boston, Mass. Ironing-table	June 29, 1875	1085	350	7	1110
165, 299	Brown, John S., Washington, D. C. Curtain-fixture	July 6, 1875	140	43	8	23
165, 915	Brown, John S., Indianapolis, Ind. Seal-lock	July 27, 1875	781	240	8	153
6, 341	Brown, Jonathan C., deceased, assignor, by mesne assignments, to Julia A. Brown, } Southfield, N. Y. Machine for cutting veneers..... (Reissue.) }	Mar. 23, 1875	1008	{ 328 329 }	{ 7 7 }	{ 511 511 }
158, 398	Brown, Joseph R., and William A. Fosket, New Haven, Conn. Feed-water heater	Jan. 5, 1875	41	15	7	15
166, 451	Same..... Automatic fire-extinguisher	Aug. 10, 1875	276	82	8	245
166, 452	Same..... same	Aug. 10, 1875	277	82	8	246
	Brown, Julia A. (See Brown, Jonathan C., assignor) (Reissue.)					
	Brown, Leuthold C. (See Bacon & Brown.)					
162, 023	Brown, Maurice T., Tyler, Tex. Bale-tie	Apr. 13, 1875	385	129	7	634
164, 967	Brown, Mercileus P., Lexington, Mo. Wash-stand	June 29, 1875	1086	350	7	1110
	Brown, Nathan G. (See Peck, Charles O., assignor.)					
162, 964	Brown, Osmond M., and Walter R. Vaughan, Council Bluffs, Iowa. Hair-dressing ma- chine	Oct. 19, 1875	620	206	8	660
163, 633	Brown, Perry, Louisville, Ky. Car-coupling	May 25, 1875	881	278	7	893
166, 337	Brown, Philo, Waterbury, Conn. Die for smoothing and shaping soldered tubes	Aug. 3, 1875	139	43	8	219
164, 071	Brown, Robert, Dayton, Ohio. Horse-rake	June 8, 1875	227	79	7	973
169, 951	Brown, Robert, Dayton, and Abel Hoover, Miamisburgh, Ohio. Rotating sliding rake for harvesters	Nov. 16, 1875	635	197	8	832
168, 714	Brown, Samuel, Lebanon, Mo. Combined drill, planter, and roller	Oct. 11, 1875	384	125	8	627
158, 671	Brown, Samuel N., and Henry W. Meyer, Dayton, Ohio. Feed-roller for planing-ma- chines	Jan. 12, 1875	300	102	7	66
	Brown, Sarah W. (See Brown, Jerome B. and Sarah W.)					
167, 640	Brown, Susan B., Lowell, Mass. Sewing-machine	Sept. 14, 1875	344	76	8	447
167, 739	Brown, Thomas, Forest Lake, Pa. Sleigh	Sept. 14, 1875	327	105	8	460
8, 811	Brown, Thomas G., Newark, N. J. Sleeve-button and stud..... (Case A. (Design) ..	Nov. 30, 1875	.....	.....	8	909
8, 812	Same..... same..... (Case B. (Design) ..	Nov. 30, 1875	.....	.....	8	909
165, 536	Brown, Warren L., and Joel B. Cramer, Dunlap, Iowa. Fence-wire stretcher	July 13, 1875	401	120	8	71
170, 518	Brown, Warren L., and Lawrence G. Tubbs, Dunlap, Iowa. Wire-fence barb	Nov. 30, 1875	1188	375	8	924
159, 638	Brown, William, La Prairie, Ill. Grain-drill	Feb. 9, 1875	372	123	7	244
165, 300	Brown, William, Duncannon, Pa. Sash-fastener	July 6, 1875	141	43	8	28
	Brown, William A. (See Disbrow, Henry G., assignor.)					
	Same..... (See Mitchell, Joseph P., assignor.)					
158, 827	Brown, William A., Eureka, Ill. Bread-slicer	Jan. 19, 1875	460	154	7	103
158, 356	Brown, William D., Le Roy, Ill. Hog-ring blank	Jan. 5, 1875	6	2	7	9
169, 143	Brown, William G., Monmouth, Me. Perforating-stamp	Oct. 26, 1875	810	263	8	762
161, 476	Brown, William H., La Fayette, Ind. Draft equalizer	Mar. 30, 1875	1170	376	7	539
166, 496	Brown, William H., New York, N. Y. Elevator	Aug. 10, 1875	311	94	8	250
	Brown, William S. (See Sprague, Harvey, assignor.)					
	Brown, Zebulon C. (See Goodyear, Andrew, assignor.)					
8, 718	Brownback, James, Thomas J. March, James Rogers, and Michael Towers, jr., Limerick Station, Pa. Cooking-stove	Oct. 19, 1875	.....	.....	8	645
159, 496	Brownback, Penrose W., Limerick, Pa. Mowing-machine	Feb. 9, 1875	254	82	7	227
6, 564	Browne, Charles A. and Isaac S., North Adams, Mass. Explosive compound..... (Reissue) ..	July 27, 1875	1048	.....	8	189
158, 672	Same..... Electric fuse	Jan. 12, 1875	300	102	7	66
163, 845	Browne, Charles L., Brooklyn, N. Y. Game apparatus	June 1, 1875	9	3	7	932
	Browne, Isaac S. (See Browne, Charles A. and Isaac S.)					
	Same..... same..... (Reissue.)					
162, 919	Browne, John C., London, England. Screw-propeller	Apr. 27, 1875	969	311	7	722
169, 950	Browne, Newbern N., Woodstock, Ala. Geographical globe for schools	Nov. 16, 1875	635	197	8	832
161, 324	Brownell, Asa C., Brooklyn, N. Y. Bath-tub	Mar. 30, 1875	1026	334	7	521
6, 460	Brownell, Clark, assignor, by mesne assignments, to Newark Tea Tray Company, New- ark, N. J. Platform for stoves..... (Reissue) ..	May 25, 1875	1071	337	7	918
163, 450	Brownell, Clark, Troy, N. Y. Evaporating pan	May 18, 1875	691	231	7	861
169, 952	Brownell, Willis L., Brooklyn, N. Y. Combined compression and swing cock	Nov. 16, 1875	636	198	8	832
170, 704	Same..... Faucet	Dec. 7, 1875	47	14	8	957
167, 062	Browning, Joseph, assignor of one-half interest to William C., J. Wesley, and T. Elwood Allison, Philadelphia, Pa. Die for bolt-heading machines	Aug. 24, 1875	863	208	8	346
	Browning, Thomas H., et al. (See Matteson, Elisha, assignor.)					
165, 658	Brownlow, David R., and George W. Francis, Middletown, Conn. Compound for coat- ing iron and other metals	July 20, 1875	527	.....	8	105
159, 789	Broyles, William S., Nola Chucky, Tenn. Corn-sheller	Feb. 16, 1875	534	178	7	271
162, 920	Brusa, Samuel M., Martinsburgh, W. Va. Middlings-purifier	Apr. 27, 1875	970	312	7	723
170, 050	Brubaker, Jacob S., Freeport, Ill. Feed-cooker	Nov. 16, 1875	718	228	8	844
	Bruce, David W. (See Herriet, Julius, assignor.) (Design.)					
	Same..... (See Jackson, William W., assignor) (Design.)					
7, 993	Bruce, David W., New York, N. Y. Font of printing-types..... (Design) ..	Jan. 12, 1875	.....	.....	7	47
168, 316	Bruce, Lucien F., Springfield, Mass. Artist's shading-stump	Oct. 5, 1875	2	1	8	565
159, 891	Bruce, Norman H., Clinton, Mass. Knitted garment	Feb. 16, 1875	630	209	7	283
163, 731	Brueck, Gustav, New York, N. Y. Apparatus for mounting fans	May 25, 1875	962	304	7	903

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167, 984	Bruen, Charles T. (See Bruen, Edwin C., assignor.)					
164, 802	Bruen, Edwin C., Brooklyn, N. Y., assignor to self and Charles T. Bruen. Friction-clutch for extension-chandeliers.	Sept. 21, 1875	552	178	8	501
159, 892	Bruen, John T., Brooklyn, N. Y. Friction-slide for drop-lights.	June 22, 1875	916	297	7	1081
159, 497	Bruen, William, and Dwight Gridley, Newark, N. J. Shawl-strap handle.	Feb. 16, 1875	631	209	7	283
161, 003	Bruff, Richard P. (See Joslyn, Benjamin F., assignor.)					
161, 003	Brugger, John, and Sebastian Christophe, Manchester, N. H. Hood.	Feb. 9, 1875	255	83	7	227
6, 560	Same.	Mar. 23, 1875	705	233	7	472
168, 607	Bruise, Russell, New York, N. Y. Portable fountain and lawn-sprinkler. (Reissue.)	July 27, 1875	1045	321	8	189
168, 607	Brulé, Emery, Neillsville, Wis. Washer-cutter.	Oct. 11, 1875	289	94	8	612
168, 965	Brumshagen, Friedrich. (See Thormann & Brumshagen.)					
162, 270	Bruner, Noah, Mechanicsburgh, Pa. Grist-alarm.	Oct. 19, 1875	621	206	8	669
160, 568	Brunner, Edw., et al. (See Berger, Charles W., assignor.)					
163, 732	Brunson, Sterne, Benton Harbor, Mich. Nut-lock.	Apr. 20, 1875	631	205	7	672
160, 150	Brush, Frederick M., Potsdam, N. Y. Organ-stop action.	Mar. 9, 1875	292	99	7	399
160, 151	Brush, Louis, assignor of one-half interest to Thomas A. Jebb, Buffalo, N. Y. Ticket.	May 25, 1875	962	305	7	903
160, 152	Bryan, James C., Philadelphia, Pa. Weather-vane and pointer.	Feb. 23, 1875	877	289	7	325
160, 153	Same. Lightning-rod.	Feb. 23, 1875	878	290	7	325
160, 154	Same. Earth-battery.	Feb. 23, 1875	879	290	7	325
168, 221	Same. Machine for bending horseshoe-magnets.	Feb. 23, 1875	880	290	7	326
163, 571	Same. Lightning-rod.	Feb. 23, 1875	880	290	7	326
164, 801	Bryan, James P., et al. (See Bailey, Clemon, assignor.)					
158, 900	Bryan, John, Des Moines, Iowa. Inside-blind.	Sept. 28, 1875	805	256	8	543
158, 828	Bryan, John P., assignor to Central Soap Company, Canton, Ohio. Impalpable soap.	May 25, 1875	823		7	885
170, 340	Bryan, John P., Canton, Ohio. Soap-boiler.	Jan. 22, 1875	915	297	7	1081
	Bryan, John W., Watertown, Tenn. Station-indicator.	Jan. 19, 1875	530	177	7	112
	Bryant, Abner H., Chicago, Ill. Egg-carrier.	Jan. 19, 1875	461	154	7	104
	Same. Slate-cleaning block.	Nov. 23, 1875	1009	316	8	891
159, 245	Bryant & Co., George S. (See Poinier, Charles P., assignor.)					
170, 520	Bryant, Arthur C., et al. (See Roman, Henry, assignor.)					
169, 409	Bryant, Frederick C., et al. (See Roman, Henry, assignor.)					
162, 796	Bryant, George, San Francisco, Cal. Shoe and gaiter.	Feb. 2, 1875	5	2	7	185
161, 004	Bryant, Theodore H. (See Harell, Simeon L., assignor.)					
159, 498	Bryant, Theodore H., et al. (See Roman, Henry, assignor.)					
	Bryce, John, and Otto Gronberg, Grand Haven, Mich. Circular-saw guide.	Nov. 30, 1875	1189	375	8	924
	Bryer, John, Wagram, Ohio. Corn-planter.	Nov. 2, 1875	82	26	8	746
	Bryson, William, Unity, Wis. Device for setting, filing, and jointing saws.	May 4, 1875	58	19	7	754
	Bubier, Elbridge W., et al. (See Hussey, John H., assignor.) (Reissue.)					
	Buchan, Henry P., Southampton, England. Water-closet.	Mar. 23, 1875	706	233	7	472
	Buchanan, James N., Chicago, Ill. Street-sprinkler.	Feb. 9, 1875	255	83	7	227
	Buchanan, William. (See Greenalch, Richard, assignor.)					
	Same. (See Toncey, Smith & Buchanan.)					
166, 184	Buchanan, William C. (See Harrison & Buchanan.)					
168, 715	Buchter, Henry, Louisville, Ky. Machine for shaping chair-backs.	Aug. 3, 1875	3	2	8	199
158, 621	Buck, Byron H., et al. (See Blaisse, George F., assignor.)					
168, 716	Buck, Frederick O., Clearfield, Pa. Ledger-rest.	Oct. 11, 1875	385	126	8	627
6, 784	Buck, Henry, Polo, Ill. Spring-bolster for vehicles.	Jan. 12, 1875	253	86	7	60
162, 526	Buck, Henry A., Fredonia, N. Y. Wringer.	Oct. 11, 1875	385	126	8	627
	Buck, James, Baltimore, Md. Bung-funnel. (Reissue.)	Dec. 7, 1875	250	84	8	983
167, 063	Buck, Martin, Lebanon, N. H. Cutter-head.	Apr. 27, 1875	892	285	7	713
170, 341	Buck, William J., et al. (See Blaisse, George F., assignor.)					
	Buckelew, Ansel S., Colusa, Cal. Watch-case spring.	Aug. 24, 1875	864	269	8	347
	Same. same.	Nov. 23, 1875	1009	317	8	891
169, 953	Buckeye Engine Company. (See Thompson, Joseph W., assignor.)					
170, 342	Buckhout, John D. (See Groshon, John A., assignor.)					
163, 046	Buckingham, Joseph P., Chicopee, Mass. Paper box.	Nov. 16, 1875	637	198	8	832
161, 477	Buckingham, Thomas L., Eli T. Starr, and Samuel S. White, assignors to said White, Philadelphia, Pa. Attachment for dental engines.	Nov. 23, 1875	1010	317	8	891
	Buckland, George G., Milton, Cal. Wagon-brake block.	May 11, 1875	307	99	7	794
	Buckley, Chauncey, and Lodowick L. Sawyer, Meriden, Conn. Curtain-fixture.	Mar. 30, 1875	1170	376	7	539
171, 212	Buckley, John H. (See Leonard & Buckley.)					
160, 302	Buckley, Matthew, et al. (See Crowfoot, Charles, assignor.)					
164, 714	Buckley, Peter, assignor of one-half interest to Edward M. Fitz Gerald, Binghamton, N. Y. Chair-seat.	Dec. 21, 1875	558	183	8	1040
162, 149	Bucklin, Edward, jr., Pawtucket, and Henry A. Stearns, assignors of three-eighths interest to Lysander Flagg, Lincoln, R. I. Cotton-gin.	Mar. 2, 1875	38	15	7	354
163, 451	Bucklin, Frank R., East Tilton, N. H. Tool for pivoting watch-wheels.	June 22, 1875	837	272	7	1071
168, 370	Buckner, Charles, jr., assignor of one-half interest to Johann H. A. Ludwig, San Francisco, Cal. Target.	Apr. 20, 1875	518	170	7	658
159, 387	Same. Wave-power machine.	May 18, 1875	692	221	7	861
167, 218	Buckner, James M., Salem, Nebr. Draft-equalizer.	Oct. 5, 1875	48	17	8	571
169, 410	Buckwalter, John R., near Bayertown, Pa. Harvester-rake.	Feb. 2, 1875	129	45	7	202
169, 411	Buckwalter, Joseph A., Royer's Ford, Pa. Magazine-stove.	Aug. 31, 1875	1029	319	8	377
170, 705	Same. same.	Nov. 2, 1875	83	26	8	746
169, 412	Same. Grate.	Nov. 2, 1875	84	26	8	746
167, 985	Budd, Albert A., Indianapolis, Ind. Burglar-alarm.	Dec. 7, 1875	48	14	8	957
162, 024	Budd, James, New York, N. Y. Process of decorating glass.	Nov. 2, 1875	85		8	746
161, 589	Budd, John C., Brooklyn, N. Y. Hat and fur box.	Sept. 21, 1875	553	178	8	501
160, 303	Budge, Henry T., Cedar Falls, Iowa. Scales.	Apr. 13, 1875	385	129	7	634
161, 655	Badlong, Joseph A., Chicago, Ill. Bag-holder.	Apr. 6, 1875	3	1	7	569
163, 298	Buechley, William, and Theodore Thorn, Pottsville, Pa. Apparatus for mining.	Mar. 2, 1875	40	15	7	354
164, 138	Same. Sash-fastener.	Apr. 6, 1875	58	21	7	577
169, 954	Same. Coal-separator.	May 18, 1875	558	178	7	843
163, 452	Buechner, Julius, Saint Paul, Minn. Picture-exhibitor.	June 8, 1875	285	97	7	980
159, 017	Buell, Charles E., New Haven, Conn., assignor of one-half interest to George C. Buell, West Springfield, Mass. Pressure-alarm and signal-telegraph.	Nov. 16, 1875	637	198	8	832
159, 300	Buell, Eckford, Columbus, Ohio. Temporary binder.	May 18, 1875	693	221	7	861
162, 348	Buell, George C. (See Buell, Charles E., assignor.)					
	Buell, James W., Saint Louis, Mo. Spark-arrester.	Jan. 26, 1875	667	218	7	137
	Buell, Thomas W. (See Talley, John W., assignor.)					
	Buell, Timothy L., Marietta, Ohio. Trellis.	Feb. 2, 1875	51	19	7	192
	Buermann, August, Newark, N. J. Bridle-bit.	Apr. 20, 1875	702	228	7	681
	Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)					
	Buffington, E. E., et al. (See Johnson, John W., assignor.)					
	Buffington, Taylor, et al. (See Dodd, Robert J., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 537	Buffon, Hugh P., Cleveland, Ill. Globe-valve	July 13, 1875	401	120	8	71
6, 675	Buffum, Albion K. P., assignor of part interest to Hartley W. Jewett and Sanford N. } Maxey, Gardiner, Me. Machine for making wooden gutters for buildings. (Reissue) }	Oct. 5, 1875	218	70	8	595
167, 641	Bugbee, Almond, South Bend, Ind. Propelling canal-boats	Sept. 14, 1875	245	76	8	447
161, 590	Bugbee, Alpheus, Elkhart, Ind., assignor to Samuel A. Harris, Minneapolis, Ind. Horse hay-rake	Apr. 6, 1875	4	2	7	569
163, 453	Bugbee, George W., assignor to J. A. Fay & Co., Cincinnati, Ohio. Sawing-machine	May 18, 1875	694	221	7	861
164, 139	Buhler, Matthew, Lamoille, Ill. Peg-cutter	June 8, 1875	286	97	7	980
167, 297	Buhlmann, Theodor, Cham-Zug, Switzerland. Grain-cleaner	Aug. 31, 1875	1095	343	8	386
161, 747	Buist, David, and Charles E. Alden, Philadelphia, Pa. Broadcast seeding-machine	Apr. 6, 1875	136	47	7	528
159, 388	Bukey, Thomas B. (See Hitchens, Joseph, assignor.)					
165, 153	Bulger, James, jr., Williamsburgh, N. Y. Valve for engines	Feb. 2, 1875	130	45	7	202
163, 647	Bulger, James, and Nicholas Inglis, Muskegon, Mich. Rein-holder	July 6, 1875	7	3	8	10
158, 673	Bulkley, Benjamin F., Southport, Conn. Wagon end-gate	May 11, 1875	308	99	7	794
167, 642	Bulkley, Henry W., New York, N. Y. Condenser	Jan. 12, 1875	301	102	7	66
168, 871	Bull, Elijah, et al. (See Wemyss, Alexander, assignor.)	Sept. 14, 1875	246	76	8	447
159, 068	Bull, George M., New Baltimore, N. Y. Lamp-chimney	Oct. 19, 1875	535	175	8	656
159, 069	Bull, Henry C., New York, N. Y., assignor to self and M. A. Southworth, New Orleans, La. Safety-valve	Jan. 26, 1875	709	233	7	143
159, 070	Same	Jan. 26, 1875	709	233	7	144
159, 071	Same	Jan. 26, 1875	711	234	7	144
169, 413	Bull, Henry C., New York, N. Y. Breech-loading fire-arm	Nov. 2, 1875	86	26	8	746
159, 072	Bull, William, Ewell, England. Brick-kiln	Jan. 26, 1875	712	234	7	144
158, 901	Bulloch, Thomas, Cincinnati, Ohio. Machine for forming rands for boot and shoe heels	Jan. 19, 1875	531	178	7	112
171, 093	Bulloch, William, deceased, Philadelphia, Pa., by Richard Vose, administrator. Ma- chine for dampening paper	Dec. 14, 1875	412	137	8	1013
8, 799	Bullock, Charles K. (See Custer, Christian, assignor.)					
159, 893	Bullock, Horace W., assignor to self and Orvis W. Bullock, Springfield, Mass. Watch- key	Nov. 23, 1875			8	862
165, 538	Bullock, John, Deep River, Mich. Bee-hive	Feb. 16, 1875	632	209	7	284
165, 539	Bullock, Milan C., New York, N. Y. Conical-roller thrust-bearing	July 13, 1875	402	120	8	72
165, 787	Same	July 13, 1875	403	121	8	72
	Same	July 20, 1875	643	197	8	121
	Same			198		
	Bullock, Orvis W. (See Bullock, Horace W., assignor.)					
165, 659	Bullock Printing Press Company. (See Rosquist, George, assignor.)					
159, 983	Bullock, William M., assignor of one-half interest to Adolphus Cutting, La Grange, Ind. Registering board-rule	July 20, 1875	528	161	8	105
159, 984	Bullough, James, deceased, Justin A. Ware, administrator, and assignor to George Crompton, Worcester, Mass. Stopping-mechanism for looms	Feb. 16, 1875	712	236	7	294
159, 985	Same	Feb. 16, 1875	713	236	7	294
159, 986	Same	Feb. 16, 1875	715	237	7	295
170, 935	Same	Feb. 16, 1875	716	238	7	295
171, 213	Bullymore, Richard, Buffalo, N. Y. Fining and cooling lard in casks for transportation	Dec. 14, 1875	265	86	8	993
168, 872	Bumann, Frank. (See Knapp, William B., assignor.)					
164, 140	Bumbaugh, Isaac N., Pittsburgh, Pa. Nail-separator	Dec. 21, 1875	559	184	8	1040
167, 298	Bumpus, Deles H. (See Gordon & Bumpus.)					
167, 299	Bumpus, Elisha M., Rochester, Mass. Horseshoe	Oct. 19, 1875	535	175	8	656
159, 894	Bundy, Clinton D., Lima, N. Y. Thill-coupling	June 8, 1875	256	98	7	981
166, 067	Bunnell, Benjamin B., and George T. B. Hosley, Branford, Conn. Molding-flask	Aug. 31, 1875	1096	344	8	387
	Same	Aug. 31, 1875	1097	344	8	387
	Bunnell, Jesse H., assignor to Patrick Bunnell & Co., Philadelphia, Pa. Telegraph- sounder	Feb. 16, 1875	632	210	7	284
162, 025	Burbank, Samuel D., Springfield, Mass. Eyeglass	Apr. 13, 1875	386	139	7	634
162, 026	Same	Apr. 13, 1875	386	139	7	634
161, 748	Burch, William, Austinburgh, Ohio. Invalid-chair	Apr. 6, 1875	137	47	7	588
163, 846	Burche, Samuel Q. A., et al. (See Murphy, Benjamin R., assignor.)					
170, 706	Burchett, Ebenezer S., London, England. Match box	June 1, 1875	9	3	7	932
160, 257	Burchfield, Thomas J. (See Rogers, William, assignor.)					
164, 518	Burden, James, Birmingham, England. Steam-pressure gage	Dec. 7, 1875	49	14, 15	8	957
	Burdett, Riley, Erie, Pa. Pedal attachment for organs, &c.	Mar. 2, 1875	4	2	7	349
	Same	June 15, 1875	649	210	7	1037
167, 740	Burdge, Johnson M. (See McOmber, Sanford W., assignor.)					
168, 135	Burdick, Isaac N., New York, N. Y. Nail-extractor	Sept. 14, 1875	328	105	8	460
163, 136	Burdiet, Orrin C., Buffalo, N. Y. Machine for forging wrench-bar heads	Sept. 22, 1875	729	130	8	532
163, 255	Burge, Gottlieb, Kittanning, Pa. Running-gear	Sept. 23, 1875	733	131	8	532
163, 733	Burge, John, Circleville, Ohio. Time-lock	Aug. 3, 1875	65	20	8	208
170, 813	Burge, William, Maumee, assignor of one-half interest to Timothy W. Ryan, South Toledo, Ohio. Scaffold	May 25, 1875	964	305	7	904
	Burger, Franz, assignor of one-half interest to Samuel N. Hoyt, Washington, D. C. Coal-oil motor	Dec. 7, 1875	142	47	8	969
159, 538	Burger, Theodore W., et al. (See Jewell, Tryon J. M., assignor.)					
159, 895	Burger, Theodore W., and Jacob A. Graff, New York, N. Y. Canister	Feb. 9, 1875	299	97	7	233
168, 829	Burger, Theodore W., Plainfield, N. J. Register pepper-box	Feb. 16, 1875	633	210	7	284
168, 966	Burgess, Andrew, Hartford, Conn. Breech-loading fire-arm	Oct. 19, 1875	499	162	8	651
169, 033	Burgess, Andrew, Owego, N. Y. Magazine fire arm	Oct. 19, 1875	621	206	8	669
159, 639	Same	Oct. 26, 1875	753	246	8	694
167, 986	Burgess, David F., Lockport, N. Y. Baby-jumper	Feb. 9, 1875	372	124	7	241
168, 222	Burgess, Hugh, Royer's Ford, Pa. Process of decomposing cryolite	Sept. 21, 1875	554		8	501
169, 144	Same	Sept. 23, 1875	806		8	543
167, 741	Burgess, Warren, Tonica, Ill. Saw-set	Oct. 26, 1875	811	263	8	702
162, 527	Burgess, William H., Jackson, N. C. Cotton and hay press	Sept. 14, 1875	329	105	8	460
165, 706	Burgess, William V., Baxter Springs, Kans. Seed-planter	Apr. 27, 1875	893	286	7	713
	Burghart, John M., Great Barrington, Mass. Paper-stock-grinding machine	July 20, 1875	569	174	8	111

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159, 790	Burgher, Peter D., Deep Creek, Va. Shingle-planing machine.....	Feb. 16, 1875	535	179	7	271
163, 974	Same.....Saw-sharpening machine.....	June 1, 1875	112	38	7	946
164, 068	Same.....same.....	June 1, 1875	200	72	7	958
158, 778	Burk, Hiram C., Zoar Station, Ohio. Animal-trap.....	Jan. 19, 1875	413	{ 138 139 }	{ 7 7 }	97
	Burk, William H. (See Orme & Burk.)					
159, 640	Burke, Benjamin F., Sullivan, Ind. Soap-compound.....	Feb. 9, 1875	373	.....	7	244
168, 317	Burke, George H., Springfield, Vt. Toy table.....	Oct. 5, 1875	3	1	8	565
158, 357	Burke, James, Ottawa, Ill. Corn-sheller.....	Jan. 5, 1875	7	2	7	9
165, 406	Burke, John, Sycamore, Ill. Seed-sower.....	July 13, 1875	276	82	8	53
165, 707	Burke, John, Newburyport, Mass. Hose-spanner.....	July 20, 1875	569	174	8	111
169, 519	Burke, Melancthon T., Portsmouth, Ohio. Trace-buckle.....	Nov. 2, 1875	177	59	8	759
	Burke, Thomas. (See Querner & Burke.)					
169, 084	Burkert, John M., Savannah, Ga. Umbrella-runner.....	Oct. 26, 1875	754	246	8	694
	Burkhard, Thomas. (See Cairns, William, assignor.)					
165, 301	Burkhard, Thomas, New York, N. Y. Vessel for measuring and handling ice-cream, &c.	July 6, 1875	142	43	8	28
162, 921	Burkhardt, Gustav, and Charles E. Harden, Homer, Ill. Weather-strip.....	Apr. 27, 1875	971	312	7	723
162, 528	Burleigh, Charles, Fitchburgh, Mass. Rock-drill.....	Apr. 27, 1875	894	286	7	713
	Burleigh, Samuel G. (See Curtiss & Burleigh.)					
167, 643	Burlingame, Edward, Centreville, R. I. Apparatus for making vinegar.....	Sept. 14, 1875	246	76	8	447
164, 258	Burlingame, Oliver F., Sterling, assignor of one-half interest to F. E. Palmer, Rock Falls, Ill. Ironing-table.....	June 8, 1875	396	134	7	995
8, 451	Burnap, William H., Jersey City, N. J. Metal case for electro-magnetic machines. (Design).....	July 6, 1875	.....	.....	8	3
161, 005	Burnet, William, Chicago, Ill. Artificial marble and process of molding the same.....	Mar. 23, 1875	707	.....	7	472
161, 201	Burnett, Henry K., Poughkeepsie, N. Y. Hay and cotton press.....	Mar. 23, 1875	885	291	7	496
171, 349	Same.....Cotton and other presses.....	Dec. 21, 1875	680	224	8	1056
158, 622	Burnett, Marshall, Hyde Park, Mass. Hydrant.....	Jan. 12, 1875	254	86	7	60
163, 572	Burnett, Oswald, Irvington, assignor of three-fourths interest to C. H. Albertson and Benjamin Hall, Vienna, N. J. Rotary engine.....	May 25, 1875	823	260	7	885
162, 150	Burnham, Charles, and Joseph G. Taite, Philadelphia, Pa. Gas-stove.....	Apr. 20, 1875	519	171	7	658
159, 151	Burnham, George, Philadelphia, Pa. Method of towing boats.....	Jan. 26, 1875	782	257	7	154
167, 300	Burnham, George, jr., Yardleyville, Pa. Neck-tie retainer.....	Aug. 31, 1875	1097	345	8	387
159, 641	Burnham, Henry N., Bushnell, Ill. Automatic gate.....	Feb. 9, 1875	373	124	7	244
169, 770	Burnham, Nathaniel, Amboy, Ill. Fence-wire stretcher.....	Nov. 9, 1875	455	144	8	802
160, 871	Burnham, Robert F., and William F. Strong, Charleston, S. C. Signal-light for railway-cars.....	Mar. 16, 1875	583	189	7	446
160, 811	Burnham, Theodore C., Waco, Tex. Cotton-chopper.....	Mar. 16, 1875	536	174	7	439
	Burnham, William H. (See Wallis & Harbach, assignors.)					
169, 771	Burnitz, Christian, Chicago, Ill. Sofa-bedstead.....	Nov. 9, 1875	456	144	8	802
169, 145	Burns, Dorinda F., New York, N. Y. Bird cage.....	Oct. 26, 1875	812	263	8	702
167, 301	Burns, Frank, Waltham, Mass. Knitting-machine and knit fabric.....	Aug. 31, 1875	1098	345	8	387
	Burns Machine Company. (See Burns, Robert F., assignor.)					
168, 223	Burns, Peter, San Francisco, Cal. Bleaching-soap.....	Sept. 28, 1875	806	.....	8	543
158, 569	Burns, Robert F., assignor to Burns Machine Company, New York, N. Y. Edge-rim- ing machine for boot and shoe soles.....	Jan. 12, 1875	207	70, 71	7	53
159, 539	Burns, Susanna E., Eastport, Me. Corsets.....	Feb. 9, 1875	300	97	7	233
165, 708	Burns, William H., Chicago, Ill. Graining-roller.....	July 20, 1875	570	174	8	111
164, 969	Burnside, George W., Prairieburgh, Iowa. Vehicle-tongue support.....	June 29, 1875	1088	350	7	1111
159, 152	Burr, Algernon A., Compton, Ill. Pump.....	Jan. 26, 1875	783	257	7	154
8, 495	Burr, David A., Philadelphia, Pa. Steam and vacuum pump.....(Design).....	July 27, 1875	.....	.....	8	148
160, 812	Burr, George W., East Line, N. Y. Sectional bucket for pumps.....	Mar. 16, 1875	537	174	7	440
167, 064	Same.....Self-packing piston-connection.....	Aug. 24, 1875	864	269	8	347
161, 478	Burr, James H., Cahoka, Mo., assignor of one-third interest to Gilman White. Sewing- machine.....	Mar. 30, 1875	1171	376	7	540
170, 707	Burr, Melbourne C., assignor of one-half interest to Frances L. Williams, Minneapolis, and Eliza E. Newport, Brainard, Minn. Game apparatus.....	Dec. 7, 1875	50	15	8	957
6, 809	Burr, Milo S., Boston, Mass. Nursing-bottle.....(Reissue).....	Dec. 21, 1875	783	259	8	1070
8, 037	Burr, Russell H., assignor to C. Rogers & Brothers, West Meriden, Conn. Coffin- screw head.....	Feb. 2, 1875	.....	.....	7	181
8, 038	Same.....same.....	Feb. 2, 1875	.....	.....	7	181
8, 039	Same.....Coffin-handle socket.....	Feb. 2, 1875	.....	.....	7	181
158, 902	Burras, Edward J. W., parish of Lambeth, England, assignor of one-half interest to George G. Brewer, Baltimore, Md. Metal-coating composition.....	Jan. 19, 1875	533	.....	7	113
	Burrell, David H., et al. (See Sedgwick, Alonzo and Edwin H., assignors.)					
	Burrell, Ives & Co. (See Fairchild, Curtis T., assignor.)					
158, 358	Burridge, Thomas H., assignor of one-half interest to James W. Butcher, Saint Louis, Mo. Car-axle box.....	Jan. 5, 1875	7	3	7	10
171, 095	Burridge, Thomas H., assignor of two-thirds interest to William H. Swift and Jeremiah Fruin, Saint Louis, Mo. Brick-machine.....	Dec. 14, 1875	415	138	8	1013
159, 153	Burroughs, Alma, Nunda Station, N. Y. Carpet-fastener.....	Jan. 26, 1875	784	257	7	154
6, 663	Burrows, William, New York, N. Y., assignor to Jordan L. Mott. Stove.....(Reissue).....	Sept. 28, 1875	895	285	8	555
8, 441	Burrows, William, assignor to J. L. Mott Iron Works, New York, N. Y. Stove. (Design).....	June 29, 1875	.....	.....	7	1098
160, 644	Burrows, William, Brooklyn, N. Y. Hot-air furnace.....	Mar. 9, 1875	357	120	7	409
165, 208	Burrows, William, assignor to Jordan L. Mott, New York, N. Y. Stove.....	July 6, 1875	65	19	8	17
163, 734	Burrows, William T., assignor of one-half interest to N. B. Ridgway and M. Rosen- baum, Nashua, Iowa. Windmill.....	May 25, 1875	965	305	7	904
166, 338	Burson, David C., Philadelphia, Pa. Machine for converting motion.....	Aug. 3, 1875	140	43	8	219
170, 468	Burson, William W., and John Nelson, assignors of one-third interest to Ralph Emer- son and William A. Talcott, Rockford, Ill. Knitting-machine.....	Nov. 30, 1875	1142	360	8	917
160, 748	Burt, Edwin, Washington, D. C. Breech-loading fire-arm.....	Mar. 16, 1875	472	{ 154 155 }	{ 7 7 }	432
168, 608	Burt, Foght, Van Wert, Ohio. Horizontal wind-wheel.....	Oct. 11, 1875	289	94	8	612
162, 217	Burt, George, Denver, Colo. Door-check.....	Apr. 20, 1875	580	190	7	666
168, 556	Same.....Door-securer.....	Oct. 11, 1875	238	78	8	605
161, 663	Burt, George E., Harvard, Mass. Horse-power.....	Apr. 6, 1875	66	24	7	578
161, 927	Burt, William L., Boston, and George H. Little, Peabody, Mass. Steam and air brake..	Apr. 13, 1875	310	{ 103 104 }	{ 7 7 }	624
158, 623	Burtis, Jacob H., El Paso, Ill. Fly-trap.....	Jan. 12, 1875	255	86	7	60
165, 439	Burtless, Mahlon, Seneca Falls, N. Y. Portable fence.....	July 13, 1875	310	91	8	58
168, 967	Burtless, Martin E., Seneca Falls, N. Y. Ditching-machine.....	Oct. 19, 1875	623	{ 206 207 }	{ 8 8 }	369
160, 049	Burton, Bethel, Brooklyn, N. Y. Cartridge-loading implement.....	Feb. 23, 1875	792	261	7	313
158, 674	Burton, Carlos, New Baltimore, Ohio. Bench-vise.....	Jan. 12, 1875	301	102	7	66

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160, 645	Burton, James N., Warnerville, Ga. Hoe.....	Mar. 9, 1875	358	121	7	409
164, 803	Burton, John B. (See Burton, William T. and John B.)					
158, 359	Burton, William S., assignor of one-third interest to John S. Lawrence, Maryville, Tenn. Car-coupling.....	June 22, 1875	917	297	7	1081
158, 399	Burton, William T. and John B., Boston, Mass. Vehicle device for checking horses	Jan. 5, 1875	8	3	7	10
163, 735	Burville, James R., assignor of one-half interest to William H. H. Dunn, Bainbridge, Ohio. Thill-coupling.....	Jan. 5, 1875	43	15	7	15
160, 872	Busch, Carl, El Paso, Ill. Steamer and boiler	May 25, 1875	906	305	7	904
167, 874	Busch, Henry E., assignor to Samuel T. and Edwin L. Lloyd, Philadelphia, Pa. Curtain-fixture.....	Mar. 16, 1875	583	190	7	446
158, 829	Busell, James H., Boston, Mass. Heel and sole trimming machine.....	Sept. 21, 1875	470	149	8	488
170, 986	Busey, William C., San Francisco, Cal. Faucet.....	Jan. 19, 1875	462	155	7	104
170, 154	Bush, Edwin C., et al. (See Hollis, John W., assignor.)					
159, 896	Bush, Martin L., Huntington, Ohio. Milk cooler and heater.....	Dec. 14, 1875	318	105	8	1000
164, 902	Bush, Richard G., Jamestown, N. Y. Tuck-marker	Nov. 23, 1875	845	264	8	808
168, 717	Bush, Rufus T., New York, N. Y. Nozzle for cans.....	Feb. 16, 1875	634	210	7	284
6, 221	Bush, William, Chicago, Ill. Velocipede.....	June 29, 1875	1029	332	7	1103
169, 955	Bushell, Edward A., Oakland, Cal. Knife sharpener and polisher.....	Oct. 11, 1875	386	126	8	627
164, 635	Bushfield, Samuel B., Baltimore, Md. Slate-frame..... (Reissue)	Jan. 12, 1875	393	132	7	79
160, 387	Bushnell, Allen R. (See Shrader, Charles D., assignor.)					
161, 749	Bushnell, Henry, New Haven, Conn. Chain-belt.....	Nov. 16, 1875	638	199	8	832
6, 785	Bushnell, John B., Fond du Lac, Wis. Seeding-machine.....	June 22, 1875	761	250	7	1061
161, 479	Bushnell, Solon H., Fairport, N. Y. Horse hay-rake.....	Mar. 2, 1875	114	41, 42	7	365
166, 339	Bushnell, Winslow, et al. (See Prosser, Treat T., assignor.)					
163, 736	Buss, Charles and George F., Marlborough, N. H. Planing-machine	Apr. 6, 1875	138	48	7	589
161, 749	Buss, George F. (See Buss, Charles and George F.)					
6, 785	Bussey, Esck, assignor of one-half interest to Charles A. McLeod, Troy, N. Y. Cooking-stove..... (Reissue)	Dec. 7, 1875	251	84, 85	8	984
161, 479	Bussey, Esck, assignor to self and Charles A. McLeod, Troy, N. Y. Magazine-stove.....	Mar. 30, 1875	1172	377	7	540
166, 339	Bussey, William C., San Francisco, Cal. Basin-faucet.....	Aug. 3, 1875	140	43	8	219
163, 736	Buswell, Columbus, Etna, Me. Harrow	May 25, 1875	967	306	7	904
158, 820	Butcher, James W. (See Burrage, Thomas H., assignor.)					
159, 073	Butcher, Thomas P. (See Eskey, Samuel S., assignor.)					
158, 400	Buterworth, Abel L., Franklin, N. H. Shoe-knife.....	Jan. 19, 1875	462	155	7	104
165, 154	Butler, Beauman, Saint Johnsbury Centre, Vt. Harrow and planter.....	Jan. 26, 1875	714	{ 235 } 236	7	144
166, 745	Butler, James, Philadelphia, Pa. Paper-making machine	Jan. 5, 1875	43	15	7	15
160, 569	Butler, James D., Lancaster, Mass. Game apparatus	July 6, 1875	7	3	8	10
163, 149	Butler, James W. (See Milroy & Butler.)					
168, 318	Butler, John, Berlin, Wis. Churn.....	Aug. 17, 1875	552	169	8	284
168, 447	Butler, John G., New York, N. Y. Projectile for ordnance.....	Mar. 9, 1875	293	99	7	400
169, 235	Same..... Ordnance.....	May 11, 1875	400	129	7	807
166, 497	Same..... Sabot for projectiles	Oct. 5, 1875	4	2	8	565
6, 664	Same..... Projectile for ordnance	Oct. 5, 1875	112	38	8	581
163, 737	Butler, Stephen D., Chicago, Ill. Bedstead-fastening	Oct. 26, 1875	889	289	8	713
165, 302	Butler, Theodore, Melrose, N. Y. Pump	Aug. 10, 1875	312	94	8	251
170, 051	Butler, William A., New York, N. Y. Water-trap..... (Reissue)	Sept. 28, 1875	896	285	8	555
159, 791	Same..... same..... (Reissue)	Sept. 28, 1875	896	286	8	555
161, 928	Same..... Drain-screw attachment for stretch-traps	May 25, 1875	968	306	7	904
161, 750	Same..... Water-trap.....	July 6, 1875	143	44	8	28
170, 936	Same..... Machine for making sheet-metal traps or bends.....	Nov. 16, 1875	719	228	8	844
168, 448	Butler, William H., Brooklyn, N. Y. Bolt-work for safe-doors, &c.....	Feb. 16, 1875	536	179	7	271
168, 968	Same..... Safe-deposit box.....	Feb. 16, 1875	635	{ 210 } 211	7	284
163, 150	Butler, William P., Syracuse, N. Y. Refrigerator	Apr. 13, 1875	312	104	7	624
161, 750	Butman, Henry, Brooklyn, N. Y. Folding table.....	Apr. 6, 1875	139	48	7	589
170, 708	Butt, Dennis L. R., Pilot Point, Tex. Adding-machine	Dec. 7, 1875	50	15	8	957
163, 357	Buttenberg, Henry, and William R. Hodges, Memphis, Tenn. Crib	May 18, 1875	612	196	7	851
170, 936	Butterfield, Benjamin M. (See Hunt & Butterfield.)					
168, 448	Butterfield, Charles F., Garden City, Minn. Grain-separator.....	Dec. 14, 1875	266	89	8	993
168, 968	Butterfield, Marshal K., and Alfred D. Holliday, Redwood Falls, Minn. Sample-box.....	Oct. 5, 1875	113	38	8	581
163, 150	Buttermore, Provance M., Connellsville, Pa. Scraper for coke-ovens	Oct. 19, 1875	625	207	8	669
161, 751	Butters, James M. (See Bean & Butters.)					
171, 094	Butterworth, Charles C. (See Butterworth, James, assignor.)					
158, 903	Butterworth, James, assignor to James and Charles C. Butterworth, Philadelphia, Pa. Drying-cylinder.....	May 11, 1875	401	129	7	807
158, 401	Butterworth, Robert, Trenton, N. J. Screw and toggle-lever press	Apr. 6, 1875	140	48	7	589
159, 561	Butterworth, William H., Trenton, N. J. Horse-power	Dec. 14, 1875	413	{ 137 } 138	8	1013
159, 499	Buttles, Cephas A., Milwaukee, Wis. Fountain-sprinkler.....	Jan. 19, 1875	534	178	7	113
167, 823	Buttles, Reuben P., Mansfield, Pa. Combined towel-rack and wash-stand.....	Jan. 5, 1875	44	16	7	15
164, 072	Button, Alphonso, East Saginaw, Mich. Combined tool	Feb. 9, 1875	315	103	7	238
6, 351	Buttrick, Charles G., and Timothy B. Flanders, Holyoke, Mass. Apparatus for oiling spindles	Feb. 9, 1875	256	83	7	228
168, 224	Same..... same.....	Sept. 21, 1875	422	134	8	481
162, 896	Butz, Edward M., and George M. Jones, Allegheny, Pa. Sectional steam-generator	June 8, 1875	228	80	7	973
162, 897	Buxton, John E., and Thomas J. Howe, Owatonna, Minn. Harvester	Mar. 30, 1875	1278	411	7	554
171, 096	Buxton, John E., Owatonna, Minn. Harvester	Oct. 11, 1875	290	94, 95	8	613
166, 746	Buxton, Levi W., Nashua, N. H. Heel-protector for boots and shoes.....	Sept. 28, 1875	807	256	8	543
164, 672	Buxtorf, Frederick. (See Weiss, Emanuel, assignor.)					
160, 813	Buzby, Albert G., Philadelphia, Pa. Magic lantern	May 4, 1875	145	47	7	766
159, 898	Same..... same.....	May 4, 1875	146	47	7	766
160, 304	Byam, Eber C. (See Byam, William W., assignor.)					
159, 540	Byam, William W., Rochester, N. Y., assignor of one-half interest to Eber C. Byam, Fort Dodge, Iowa. Blind-slat adjuster.....	Dec. 14, 1875	416	139	8	1013
160, 873	Byer, John R., assignor to self and A. H. Fish, Attica, Mich. Tram-stick	Aug. 17, 1875	553	170	8	294
160, 813	Byerley, Francis X., Cleveland, Ohio. Apparatus for purifying paraffine	June 22, 1875	794	{ 260 } 261	7	1066
159, 898	Byers & Son, Eby. (See Patton & Walters, assignors.)					
160, 304	Byington, Justin, Wilmington, Del. Grate	Mar. 16, 1875	537	174	7	440
159, 540	Byram, Frank A., Philadelphia, Pa. Combined camp-stool and cane.....	Feb. 16, 1875	637	211	7	284
160, 873	Byram, Henry C., Dover, N. J. Millstone balance.....	Mar. 2, 1875	41	16	7	354
160, 873	Byrn, Edward W., Washington, D. C. Coal-hod	Feb. 9, 1875	300	97	7	233
160, 873	Byrn, Edward W., assignor to self and Thomas F. Rea, Washington, D. C. Coal-hod.....	Mar. 16, 1875	684	190	7	446
160, 873	Byrne, George P. (See Griffith & Byrne.)					

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166, 340	Byrom, Samuel, and Francis Clewley, assignors of one-third interest to Joseph D. McKee, Philadelphia, Pa. Looping attachment for sewing-machines.....	Aug. 3, 1875	141	44	8	219
	Cable, J. H., et al. (See Finley, James R., assignor.)					
166, 256	Cable, Wheeler, Boston, Mass. Rubber-coated fabric.....	Aug. 3, 1875	66		8	208
169, 889	Cabot, Ferdinand W., Mansfield, Mass. Coffin-screw.....	Nov. 16, 1875	583	181	8	825
6, 778	Caddick, Samuel, Pembroke, Me. Puddling-furnace..... (Reissue)...	Dec. 7, 1875	241	82, 83	8	983
171, 350	Cade, Baylus, Scott's Depot, W. Va. Railway-telegraph.....	Dec. 21, 1875	681	224	8	1056
160, 388	Cadenhead, Benjamin F., Bolingbroke, Ga. Car-coupling.....	Mar. 2, 1875	115	42	7	365
160, 389	Same..... Cotton-seed planter.....	Mar. 2, 1875	115	42	7	365
169, 772	Cadwallader, Charles N., Philadelphia, Pa. Convertible chair.....	Nov. 9, 1875	457	144	8	502
	Cady, Augustus F. (See Kellogg, Orson W., assignor.)					
165, 981	Cady, Collins M., Peninsula, Ohio. Registering-machine.....	July 27, 1875	849	261	8	161
	Cady, Monroe M. (See Henion, John B.)					
165, 474	Cady, Ransom E., assignor to Globe Nail Company, Boston, Mass. Conductor for nail-rolling machines.....	July 13, 1875	346	101	8	63
159, 389	Caffall, Robert M., and Alfred Thomas, London, England. Apparatus for sealing and unsealing dip-pipes in gas hydraulic mains.....	Feb. 2, 1875	131	46	7	203
162, 027	Caffrey, Charles S., Camden, N. J. Carriage-spring attachment.....	Apr. 13, 1875	387	130	7	634
6, 561	Cahill, William, Syracuse, N. Y. Kneeling-stool..... (Reissue)...	July 27, 1875	1046	322	8	189
	Cahoon, Charles W., Portland, Me. Lamp..... (Extension)...	Feb. 18, 1875			7	387
164, 903	Cahoon, J. Joseph, Memphis, Tenn., assignor of one-fourth interest to Thomas H. Cahoon, Cleveland, Ohio. Cotton-compressor.....	June 29, 1875	1030	332	7	1103
	Cahoon, Thomas H. (See Cahoon, J. Joseph, assignor.)					
	Cahoone, Edwin R. (See Maclure, John, assignor.)					
6, 601	Cahuc, Raymond, Toulouse, France. Explosive compound..... (Reissue)...	Aug. 17, 1875	716		8	318
161, 325	Same..... Mining-powder.....	Mar. 30, 1875	1027		7	521
160, 390	Cain, Cornelius H., Jefferson, Ind. Swing.....	Mar. 2, 1875	116	42, 43	7	365
162, 922	Cain, Jacob, Altoona, Pa. Broom-hanger.....	Apr. 27, 1875	971	312	7	723
164, 970	Cain, Michael, Neversink, N. Y. Rein-holder.....	June 29, 1875	1089	351	7	1111
167, 153	Cain, Thomas, Lake Douglas, Great Britain. Grate-bar.....	Aug. 31, 1875	974	303	8	369
159, 899	Cairns, William, Jersey City, N. J., assignor to self and Thomas Burkhard, New York, N. Y. Apparatus for sugar-coating confectionery, pills, &c.....	Feb. 16, 1875	637	211	7	284
	Calder, F. R. (See Hines & Fessler, assignors.)					
169, 146	Caldwell, Andrew W., Gainesville, Ga. Wringer attachment to wash-tubs.....	Oct. 26, 1875	813	264	8	702
164, 422	Caldwell, George B., Philadelphia, Pa. Machine for manufacturing vapor-gas.....	June 15, 1875	568	184 } 185 }	7	1026
164, 715	Caldwell, Henry W., Indianapolis, Ind. Grain-conveyer.....	June 22, 1875	838	272	7	1071
	Caldwell, James F., et al. (See Jerrold, John E., assignor.)					
163, 299	Caldwell, John K., Philadelphia, Pa. Brick-machine.....	May 18, 1875	558	179	7	843
167, 742	Same..... Pulverizing-machine for clay and similar substances.....	Sept. 14, 1875	330	106	8	460
169, 338	Caldwell, Joseph K., assignor to self and John L. Kates, Philadelphia, Pa. Furnace.....	Nov. 2, 1875	15	5	8	736
162, 610	Caldwell, Nathaniel, Cincinnati, Ohio. Lard-tank skimmer.....	Oct. 11, 1875	292	95	8	613
168, 611	Same..... Lard-rendering tank.....	Oct. 11, 1875	293	95	8	613
168, 612	Same..... Hog-lifter.....	Oct. 11, 1875	294	95	8	613
166, 068	Caldwell, Robert W., Zanesville, Ohio. Child's carriage.....	July 27, 1875	927	286	8	172
166, 845	Same..... Baby-jumper.....	Aug. 17, 1875	636	198	8	307
160, 003	Caldwell, William G., Three Rivers, Mich. Relishing-machine.....	Feb. 23, 1875	754	249	7	308
	Calkins, Allen C., et al. (See Prosser, Treat T., assignor.)					
163, 635	Calkins, Ripley R., Saint Joseph, Mo. Sash-holder.....	May 25, 1875	883	278	7	893
158, 402	Call, George W., Nashua, N. H. Car-coupling.....	Jan. 5, 1875	45	16	7	15
167, 494	Call, Manfred, Richmond, Va. Cotton-sweep.....	Sept. 7, 1875	98	31	8	420
	Callbreath, John C. (See Mott, Henry, assignor.)					
164, 362	Calley, Freeman A., assignor to Charles G. Sargent, Graniteville, Mass. Knit fabric.....	June 15, 1875	500	168	7	1019
	Calverley, Joseph. (See MacDonald & Calverley.)					
171, 597	Calvert, John S., Denver, Colo. Gold-washer.....	Dec. 28, 1875	927	304	8	1098
	Cambridgeport Diary Company. (See Dresser, Edwin, assignor.)					
159, 390	Came, John E., Boston, Mass. Bolt for billiard-tables.....	Feb. 2, 1875	132	46	7	203
168, 449	Cameron, Archibald, Charleston, S. C. Lever-press.....	Oct. 5, 1875	113	39	8	581
	Cameron, James A. (See Lemon & Cameron.)					
	Cameron, James A. (See Lemon, Cameron & Hainer.)					
169, 085	Cameron, James W., New York, N. Y. Revolving game apparatus.....	Oct. 26, 1875	755	246	8	694
160, 165	Cameron, Peter, Salford, Great Britain. Folding table.....	Feb. 23, 1875	822	291	7	326
160, 156	Cameron, Peter, Oshkosh, Wis. Clothes-frame.....	Feb. 23, 1875	883	291	7	326
	Cammeyer, William H. (See Lewis, Samuel, assignor)..... (Reissue)...					
169, 956	Camp, Charles B., and Christian Osterhout, White Pigeon, Mich. Washing-machine clamp.....	Nov. 16, 1875	639	199	8	833
161, 262	Camp, Horace B., Cuyahoga Falls, Ohio. Machine for making curved earthenware pipes.....	Mar. 23, 1875	886	291	7	496
165, 710	Same..... Machine for forming sockets on curved earthenware pipes.....	July 20, 1875	571	175	8	111
160, 157	Camp, Joseph E., Brooklyn, N. Y., assignor to S. A. Hsley & Co., New York City. Spice-box.....	Feb. 23, 1875	883	291	7	326
159, 792	Camp, Orrin S., Grand Rapids, Mich. Pail.....	Feb. 16, 1875	538	179	7	271
162, 529	Campbell, A. Gibbs, Paterson, N. J. Portable toilet water and extract.....	Apr. 27, 1875	896		7	713
169, 890	Campbell, Albert O., Oakland, Cal. Windmill.....	Nov. 16, 1875	584	181	8	825
168, 450	Campbell, Andrew H., Philadelphia, Pa. Machine for bending bars of metal.....	Oct. 5, 1875	114	39	8	581
6, 264	Campbell, Augustine, Metuchen, N. J., assignor to Nathaniel C. Locke, Salem, Mass. Self-regulating pressure-valve..... (Reissue)...	Feb. 2, 1875	236	77	7	217
169, 339	Campbell, Augustine, Middlesex County, New Jersey. Instrument for regulating temperature.....	Nov. 2, 1875	16	5	8	736
	Campbell, Charles C., et al. (See Hollis, John W., assignor.)					
168, 969	Campbell, Christopher C., East Chatham, N. Y. Baling-press.....	Oct. 19, 1875	626	207	8	669
168, 137	Campbell, Daniel E., and James R. Creighton, Boston, Mass. Speaking-tube.....	Sept. 28, 1875	733	131	8	533
	Campbell, Eli P. (See Swisher & Campbell.)					
158, 360	Campbell, Frank M., Saint Louis, Mo. Chimney-jack.....	Jan. 5, 1875	9	3	7	10
169, 957	Campbell, Frank M., Crow Wing, Minn. Car coupling and brake.....	Nov. 16, 1875	639	199	8	833
163, 573	Campbell, Hardy W., Montgomery Centre, Vt. Butter-package.....	May 25, 1875	824	261	7	885
	Campbell, Henry. (See Corbett & Campbell.)					
	Same..... (See Robinson, Smith & Campbell.)					
166, 682	Campbell, Henry W., and Joseph H. Johnson, Paducah, Ky. Water-wheel.....	Aug. 17, 1875	492	150	8	285
6, 270	Campbell, James, assignor of one-half interest to William Campbell, deceased, James A. Campbell, administrator, Harrison, Ohio. Seed-planter..... (Reissue)...	Feb. 2, 1875	242	79	7	218
6, 371	Same..... Corn-planter..... (Reissue)...	Apr. 13, 1875	490	162	7	647
165, 155	Campbell, James, Harrison, Ohio. Pilot-wheel corn-drill.....	July 6, 1875	8	3	8	10
165, 788	Same..... Corn-drill.....	July 20, 1875	645	198	8	122
169, 621	Same..... Pilot-wheel corn-planter.....	Nov. 9, 1875	297	96	8	782

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163, 358	Campbell, James A., administrator. (See Campbell, James, assignor)..... (Reissue.) Campbell, Jeremiah, Lancaster, Pa. Mouth-piece for cigars..... Campbell, Jones & Co. (See Franz, Henry, assignor.) Campbell, Joseph. (See Raymond & Campbell.) Campbell, Nathan E. (See Landfear, William R., assignor.) Campbell, Robert. (See Pearl, Buel D., assignor.)	May 18, 1875	613	196	7	851
7, 970	Campbell, Robert R., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet..... (Design)	Jan. 5, 1875			7	5
7, 971	Same..... same..... (Design)	Jan. 5, 1875			7	5
7, 972	Same..... same..... (Design)	Jan. 5, 1875			7	5
7, 973	Same..... same..... (Design)	Jan. 5, 1875			7	5
7, 974	Same..... same..... (Design)	Jan. 5, 1875			7	5
7, 975	Same..... same..... (Design)	Jan. 5, 1875			7	5
7, 976	Same..... same..... (Design)	Jan. 5, 1875			7	5
8, 233	Same..... same..... (Design)	Mar. 30, 1875			7	516
8, 234	Same..... same..... (Design)	Mar. 30, 1875			7	516
8, 235	Same..... same..... (Design)	Mar. 30, 1875			7	516
8, 236	Same..... same..... (Design)	Mar. 30, 1875			7	516
163, 048	Campbell, William, deceased. (See Campbell, James, assignor)..... (Reissue.) Campbell, William. (See Sykes, Henry, assignor.) Campbell, William, Floyd C. H., Va. Extensible safety-bridge..... Campfield, Charles H. (See Moore & Campfield.)	May 11, 1875	309	99	7	795
166, 587	Campfield, Matthew E., assignor to Rush S. Battles, Girard, Pa. Wrench.....	Aug. 10, 1875	385	119	8	262
160, 158	Camyrié, Jean B., Montreal, Canada. Wash-boiler..... Canaday, Lloyd. (See Clemenshaw, Benjamin F., assignor.) Canal and Claiborne Street Railway Company. (See Jacoby, Gottfried, assignor.) Candee & Co., L. (See Watkinson, George, assignor)..... (Design)	Feb. 23, 1875	884	291	7	326
168, 225	Canfield, Frederick A., Dover, N. J. Protector for explosive caps.....	Sept. 28, 1875	807	256	8	543
169, 622	Same..... Electric fuse.....	Nov. 9, 1875	297	96	8	782
166, 341	Canfield, Joseph H., Saint Louis, Mo. Refrigerator-car..... Canfield, Joseph W. (See Graf, Wilhelm E., assignor.)	Aug. 3, 1875	142	44	8	219
161, 381	Cannon, Charles B., Keokuk, Iowa. Pruning implement.....	Mar. 30, 1875	1083	351	7	528
162, 898	Cannon, Frederick C., New Haven, Conn. Carriage-lamp.....	May 4, 1875	147	47	7	766
169, 958	Cannon, John, Lines Hollow, Pa. Work-table.....	Nov. 16, 1875	640	199	8	833
163, 303	Cannon, John G., York, Pa. Process and apparatus for treating celluloid bases for artificial teeth.....	July 6, 1875	143	44	8	28
162, 349	Cape, Raymond. (See Laree, Eugene P., assignor.) Capewell, George A., Woodbury, Conn. Shot-charger.....	Apr. 20, 1875	702	228	7	681
159, 154	Capewell, George J., Cheshire, Conn. Clasp for stocking or skirt supporter..... Capewell, G. J. (See Turner, Lewis W., assignor.)	Jan. 26, 1875	785	257	7	154
8, 759	Capron, Jacob, New York, N. Y. Door-plate..... (Design)	Oct. 26, 1875			8	689
171, 548	Capstack, Jonathan, Barnville, Ohio. Twisting-machine..... Carbureted Gas Machine Company. (See Henderson, John C., assignor.)	Dec. 28, 1875	881	288	8	1092
6, 408	Card, Daniel O., Rawsonville, Ohio, assignor, by mesne assignments, to William A. Crittenden. Bent knee and beam for sleighs..... (Reissue)	May 4, 1875	243	77	7	779
164, 716	Card, Edward, assignor to self, Isaac Lindsley, and Bradford Borden, Pawtucket, and Socrates Scofield, Providence, R. I. Top roll for spinning-machines, &c.....	June 22, 1875	839	273	7	1072
169, 086	Card, Edward, Pawtucket, R. I. Reservoir cooking-stove.....	Oct. 26, 1875	756	246	8	694
171, 266	Card, William, assignor of one-half interest to William Lewis, Huron County, Ohio. Washing and wringing machine.....	Dec. 21, 1875	609	199	8	1047
161, 382	Carey, Augustus C., Boston, Mass. Machine for feeding cartridge-shells.....	Mar. 30, 1875	1083	351	7	528
161, 383	Same..... Device for drying and stretching hose.....	Mar. 30, 1875	1085	352	7	529
162, 028	Carey, Augustus C., Malden, Mass. Machine for re-enforcing stocking-heels.....	Apr. 13, 1875	388	130	7	634
163, 151	Carey, Augustus C., Boston, Mass. Feeding attachment for cartridge-loading machine.....	May 11, 1875	462	129	7	807
161, 360	Carey, Dennis, Lynn, Mass. Horseshoe.....	Apr. 13, 1875	247	82	7	616
160, 507	Carey, Wilson W., assignor to self and George W. Harris, Lowell, Mass. Machine for planing wood.....	Mar. 9, 1875	240	82	7	391
170, 814	Carey, Wilson W., assignor of one-half interest to George W. Harris, Lowell, Mass. Band sawing-machine.....	Dec. 7, 1875	143	48	8	970
8, 068	Carhart, Garrett E., Washington, D. C. Advertising-desk..... (Design)	Jan. 19, 1875			7	93
162, 923	Carhart, Jacob C., Ackermanville, assignor of one-half interest to Jos. D. Shimer, Martine's Creek, Pa. Wagon-brake.....	Apr. 27, 1875	972	312 313	7	723
161, 752	Carleton, Ezra C., Port Huron, Mich. Securing handles to cutlery.....	Apr. 6, 1875	140	48	7	589
159, 301	Carley, Horace S., New York, N. Y. Gymnastic apparatus.....	Feb. 2, 1875	52	19	7	192
170, 343	Carlin, Asa, Stone's Prairie, Mo. Rotary force-pump..... Carlin, William E., et al. (See Fogh, Hans J., assignor.)	Nov. 23, 1875	1011	317	8	891
166, 965	Carling, Cornelius H., New York, N. Y. Grate for oyster-ranges.....	Aug. 24, 1875	771	238	8	333
170, 521	Carlisle, John H., Craigsville, Va. Hame-coupling.....	Nov. 30, 1875	1190	375	8	924
165, 916	Carlock, William B., Bloomington, Ill. Means for preventing reverberations in public halls.....	July 27, 1875	782	240	8	153
159, 074	Carman, Peter H., Brooklyn, N. Y. Ventilating and warming drum.....	Jan. 26, 1875	715	236	7	144
158, 675	Carman, William L., Belvidere, Nebr. Water and steam indicator for boilers.....	Jan. 12, 1875	302	103	7	66
169, 414	Carmany, Henry R., Shippensburg, Pa. Spoke-tenoning machine.....	Nov. 2, 1875	87	27	8	746
161, 203	Carmody, John, New York, N. Y. Compound for coating leather.....	Mar. 23, 1875	887	291	7	496
168, 226	Carnahan, Francis M., Adrian, Mich. Sawing-machine..... Carnegie, Thomas M. (See Lander, George, assignor.)	Sept. 28, 1875	808	257	8	544
160, 081	Carnes, Philon P., Cleveland, Ohio. Fireman's ladder.....	Feb. 23, 1875	821	269	7	317
163, 738	Carney, Martin J., Toledo, Ohio. Cylinder-cam.....	May 25, 1875	969	306	7	904
159, 642	Carns, James C., Millbrook, Ill. Sulky-plow.....	Feb. 9, 1875	374	124	7	244
159, 075	Carobbi, Cesare, and Giuseppe Bellini Pistoja, assignors to one-third interest to John Reynolds, Prato, Italy. Atmospheric-air compressor for working engines.....	Jan. 26, 1875	715	236 237	7	144
	Carothers, Robert J. (See Crenshaw & Carothers.) Carpenter, Aaron E. (See Houghton, Edwin F., assignor)..... (Reissue.) Carpenter, Charles T., et al. (See Pulliam, Benjamin M., assignor.) Carpenter, Cyrus, trustee. (See Hosmer, Oren S., assignor.) Carpenter, Edward P., et al. (See Waitt, George W., assignor.)					
163, 454	Carpenter, Herbert M., and Ellwood Grimshaw, Minneapolis, Minn. Swinging buggy-bodies.....	May 18, 1875	695	222	7	862
168, 227	Carpenter, Jesse, Sheridan, Mich., assignor of one-fourth interest to Joseph W. Marsh. Device for detaching horses.....	Sept. 28, 1875	809	257	8	544
48, 366	Carpenter, Riley W., New York, N. Y. Tremolo attachment..... (Disclaimer filed)	June 19, 1875			8	148
162, 741	Carpenter, Samuel M., Cleveland, Ohio. Turn-table.....	May 4, 1875	6	3	7	747
158, 465	Carpenter, Stephen D., Madison, Wis. Grain-binder.....	Jan. 5, 1875	98	34	7	23
158, 466	Same..... Grain-binding harvester.....	Jan. 5, 1875	100	34	7	23
167, 219	Carpenter, Thacher B. (See Ramsdell, Daniel P., assignor.) Carpenter, Thacher B., New Haven, Conn. Lid-lifter.....	Aug. 31, 1875	1030	320	8	377

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161, 384	Carpenter, Ward B., Topsham, assignor of one-half interest to Lane Manufacturing Company, Montpelier, Vt. Centering device for wood-turning lathes.....	Mar. 30, 1875	1086	352	7	529
162, 899	Carr, Charles F. (See Wilcox & Carr.)					
167, 495	Carr, Charles F., and Stephen S. Wilcox, Adel, Iowa. Grain-binder.....	May 4, 1875	147	47, 48	7	766
161, 664	Same..... File	Sept. 7, 1875	98	31	8	420
162, 218	Carr, James T., Milo, Me. Seed-planter.....	Apr. 6, 1875	67	24	7	578
158, 904	Carr, John, and Menzo D. Phillips, Grand Rapids, Mich.; said Phillips assignor to said Carr; said Carr assignor of one-half interest to William Carr. Wood pavement.....	Apr. 20, 1875	580	190	7	666
165, 304	Carr, John H., Palo Alto, Pa. Spark-arrester.....	Jan. 19, 1875	535	178	7	113
168, 371	Carr, Thaddeus P., Yellow Springs, Ohio. Piano-forte action.....	July 6, 1875	144	44	8	2
	Carr, Thomas, Rochester, Pa. Glass-tool.....	Oct. 5, 1875	48	17	8	57
	Carr, William. (See Carr & Phillips, assignors.)					
167, 154	Carr, William, West Hayden, Ohio. Pruning implement.....	Aug. 31, 1875	975	303	8	369
162, 742	Carr, William S., New York, N. Y. Water-closet.....	May 4, 1875	7	3	7	747
168, 613	Same..... same	Oct. 11, 1875	295	96	8	614
170, 709	Same..... Waste-valve and overflow for baths and basins.....	Dec. 7, 1875	52	16	8	957
166, 846	Carre, Louis C. E., Orleans, France. Apparatus for economizing fuel.....	Aug. 17, 1875	637	199	8	307
168, 138	Carrick, David, Philadelphia, Pa. Steam-washer for cakes and biscuits.....	Sept. 28, 1875	734	132	8	533
167, 496	Carrick, James, Glasgow, North Britain. Combined respirator and inhaler.....	Sept. 7, 1875	99	31	8	420
167, 603	Carrick, Thomas J., assignor to Henry Snowden and Charles H. Cowman, Baltimore, Md. Universal joint and clamp.....	Sept. 14, 1875	212	66	8	443
	Carroll, Charles. (See Mott & Carroll.)					
164, 673	Carroll, De Witt C., and David Rogers, Pittsburgh, and Alexander W. Foster, jr., Temperanceville, Pa. Machine for punching boiler-plates.....	June 22, 1875	796	261	7	1066
166, 185	Carroll, John H., Dubuque, Iowa. Washing-machine.....	Aug. 3, 1875	4	2	8	199
160, 159	Carroll, Theron S., Winsted, Conn. Fitting-tool.....	Feb. 23, 1875	885	292	7	326
163, 455	Carroll, Thomas, assignor of one-half interest to Francis A. Woodmansee, Prairie City, Ill. Whiffletree.....	May 18, 1875	696	222	7	862
161, 929	Carroll, Thomas J., assignor to John M. Johnson and Peter Ring, Bridgeport, Conn. Fastener for meeting-rails of sashes.....	Apr. 13, 1875	313	105	7	624
164, 519	Carroll, Thomas J., assignor to Frank Armstrong, Bridgeport, Conn. Shutter-worker.....	June 15, 1875	650	210	7	1037
170, 662	Carroll, Thomas J., assignor of one-half interest to Charles Whipple, Bridgeport, Conn. Toy pistol.....	Dec. 7, 1875	8	3	8	952
6, 386	Carroll, William T., assignor to George and William F. Draper, Hopedale, Mass. Spinning-ring..... (Reissue.)	Apr. 20, 1875	810	263	7	694
169, 775	Carron, John S., Philadelphia, Pa. Click for bracelets.....	Nov. 9, 1875	459	145	8	802
	Carson, James W. (See Ball & Wiegand, assignors.)					
	Carson, James W. (See Ball, Charles E., assignor.)					
6, 468	Carson, James W. (See Voltair & Ball, assignors.)					
	Carson, John S., Brookhaven, Miss., assignor to Warren L. Carson, Memphis, Tenn. Bale-tie..... (Reissue.)	June 1, 1875	212	74	7	959
169, 891	Carson, Thomas T., and Philip F. Whiting, Morristown, Tenn. Car-coupling..... (Reissue.)	Nov. 16, 1875	585	181	8	826
163, 847	Carson, Warren L. (See Carson, John S., assignor.)					
168, 228	Carson, William H., San José, Cal. Amalgamator.....	June 1, 1875	10	3	7	932
170, 700	Carstaedt, Hugo, New York, N. Y. Take-up mechanism for looms.....	Sept. 28, 1875	810	257	8	544
167, 220	Carter, Albert, Brooklyn, N. Y. Bustle.....	Dec. 7, 1875	52	16	8	957
169, 892	Carter, Albert A., Philadelphia, Pa. Window-screen.....	Aug. 31, 1875	1030	320	8	377
171, 501	Same..... Kitchen-shelf.....	Nov. 16, 1875	586	182	8	826
	Same..... Door-screen.....	Dec. 28, 1875	241	275	8	1086
164, 259	Carter, Arthur, jr. (See Virgo, Charles, assignor.)					
	Carter, Charles, Philadelphia, Pa. Ventilating attachment to stoves.....	June 8, 1875	397	134	7	995
169, 340	Carter, Charles H., et al. (See Putnam, Albert M., assignor.)..... (Reissue.)					
167, 221	Carter, Charles R., Zanesville, Ohio. Fruit-jar.....	Nov. 2, 1875	16	5	8	737
167, 222	Carter, Charles W., Terre Haute, Ind., assignor to self and George W. Travis, Cape Girardeau, Mo. Truck for moving rails, &c.....	Aug. 31, 1875	1031	320	6	377
162, 151	Same..... Truck for carrying rails, axles, &c.....	Aug. 31, 1875	1032	320	8	377
163, 574	Carter, Clement L., Union City, Ind. Plow.....	Apr. 20, 1875	520	171	7	658
159, 901	Carter, Egbert P., Arcade, N. Y. Spring bed-bottom.....	May 25, 1875	825	261	7	886
158, 905	Carter, Franklin S., and					

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164,804	Case, Hiram P., Detroit, Mich. Steam-engine.....	June 22, 1875	917	297	7	1082
162,530	Case, John, French Town Post-Office, N. J. Hat.....	Apr. 27, 1875	896	286	7	713
	Case, Julius A., et al. (See Kenny, Francis, assignor.)					
	Case, Oscar J. (See Wallis, Theodore, assignor.)					
	Case, R. G. (See Lyon, George R., assignor.)					
171,097	Case, Rodney M., Auburn, N. Y. Churn-dasher.....	Dec. 14, 1875	418	139	8	1014
161,326	Case, Truman, New Haven, assignor to James D. Frary, New Britain, Conn. Toy pistol.....	Mar. 30, 1875	1028	334	7	521
170,233	Case, Warren H., Dansville, N. Y. Type-writing machine.....	Nov. 23, 1875	916	285	8	877
169,236	Case, Wheeler, and James H. Read, jr., Utica, N. Y. Ladder.....	Oct. 26, 1875	890	289	8	713
	Case, William G. (See Ellis, William, assignor.)					
167,302	Casey, Fred A., assignor of one-half interest to H. Bearup, Elkhart, Ind. Pet-cock for locomotives.....	Aug. 31, 1875	1099	345	8	387
163,575	Casey, James E., Henry Auel, and James Johnson, Mystic River, Conn. Harness-frame for looms.....	May 25, 1875	826	261	7	886
159,077	Casey, Peter, Newport, R. I. Bridle-bit.....	Jan. 26, 1875	719	237	7	145
170,815	Cash, Evan F., Bellaire, Ohio. Jelly-cup.....	Dec. 7, 1875	145	48	8	970
167,223	Casilear, George W., Washington, D. C. Safety-paper.....	Aug. 31, 1875	1033	321	8	377
167,987	Casilear, George W., and William C. McIntire, Washington, D. C. Revenue-stamp, check, &c.....	Sept. 21, 1875	555	179	8	501
165,540	Caslin, Thomas D., Montrose, Pa. Needle-sharpener.....	July 13, 1875	405	121	8	72
163,916	Casperson, William P., Monroe, Iowa. Wash-boiler.....	June 1, 1875	65	22	7	939
166,499	Cass, Henry C., and George R. Rankin, Alma, Colo. Boot-tree.....	Aug. 10, 1875	314	95	8	251
165,789	Cass, James F., L'Original, assignor of two-thirds interest to James and Alpheus McCallum, Kars, Canada. Wagon-rack.....	July 20, 1875	646	198	8	122
	Cassel, M. J. (See Barringer, John H., assignor.)					
	Cassidy, William. (See Fitzpatrick, Michael, assignor.)					
164,260	Castellanos, Prudencio, San Francisco, Cal. Manufacture of nitro-sulphuric acid for manufacturing nitro glycerine.....	June 8, 1875	398		7	995
164,261	Same..... Recovering acids from residuum of nitro-glycerine manufacture.....	June 8, 1875	399		7	995
164,262	Same..... Apparatus for recovering acids from the residuum of nitro-glycerine manufacture.....	June 8, 1875	400	135	7	996
164,263	Same..... Explosive compound.....	June 8, 1875	401		7	996
164,264	Same..... same.....	June 8, 1875	402		7	996
162,924	Castle, Chauncey H., assignor to Comstock, Castle & Co., Quincy, Ill. Heating-stove.....	Apr. 27, 1875	973	313	7	723
6,252	Castle, Samuel D., Bridgeport, Conn. Apparatus for stretching leather..... (Reissue).....	Jan. 26, 1875	877	285	7	167
163,739	Castle, William H., assignor of one-half interest to R. O. Rote, Geneva, Ohio. Clothes-pounder.....	May 25, 1875	969	306	7	904
158,467	Castle, William W., Belfast, Me. Hammer for dressing stone.....	Jan. 5, 1875	104	35	7	23
	Castlebury, M. T. (See Merritt, Wyly, assignor.)					
170,816	Caswell, Daniel H., Nashville, Tenn. Grain-separator.....	Dec. 7, 1875	145	48, 49	8	970
170,344	Caswell, Ezra, Lyons, N. Y. Vise.....	Nov. 23, 1875	1012	317	8	891
168,372	Caswell, Jesse M., and Addison R. Worth, De Soto, Wis. Crane.....	Oct. 5, 1875	49	17	8	571
168,970	Caswell, William A., assignor of one-half interest to E. B. Preston, Chicago, Ill. Hose-coupling.....	Oct. 19, 1875	626	207	8	670
170,155	Same..... same.....	Nov. 23, 1875	846	265	8	868
171,502	Catchpole, John L., Framsdon, and George F. and Thomas F. Stidolph, Woodbridge, Great Britain. Seed separator.....	Dec. 28, 1875	242	276	8	1086
164,265	Caterson, William M., Philadelphia, Pa. Vessel for containing poison.....	June 8, 1875	403	135	7	996
160,874	Cathcart, Rodney S., assignor of one-half interest to Straub Mill Company, Cincinnati, Ohio. Mill-spindle.....	Mar. 16, 1875	585	190	7	446
160,875	Same..... Millstone-bush.....	Mar. 16, 1875	586	191	7	447
162,925	Cathell, Jonathan D., Georgetown, D. C. Gas-apparatus.....	Apr. 27, 1875	974	313	7	723
167,824	Cather, Edwin, Port Deposit, Md. Machine for compressing the ends of blind slats.....	Sept. 21, 1875	423	135	8	481
159,246	Caton, Charles, Coshocton, Ohio. Combined calipers, dividers, &c..... (See Botsford, David, assignor.)	Feb. 2, 1875	6	2	7	185
164,141	Caulkins, Thomas N., Ovasco, N. Y. Magazine cooking-stove.....	June 8, 1875	287	98	7	981
160,391	Caulon, John J., New York, N. Y. Calendar.....	Mar. 2, 1875	117	43	7	366
159,643	Cauley, Oliver S. (See Green, George W., assignor.)					
165,643	Cavalier, Peter, Yankton, Dak. Rolling-pin.....	Feb. 9, 1875	375	125	7	244
165,209	Cavanagh, James, New York, N. Y. Automatic shut-off attachment for water-closets.....	July 6, 1875	66	19	8	18
166,186	Cavanaugh, Dennis F., Greensburgh, Pa. Railway-switch.....	Aug. 3, 1875	5	2	8	199
167,743	Same..... same.....	Sept. 14, 1875	331	106	8	460
166,966	Cave, George J., Elizabeth, N. J. Signal-lantern.....	Aug. 24, 1875	772	238	8	334
	Caven, John. (See Carville & Caven.)					
	Cavender, Joseph W. (See Stokes, John C., assignor.)					
168,722	Cawing, William J., Washington, D. C. Fare-box.....	Oct. 11, 1875	390	128	8	628
160,004	Cawthon, Benjamin F., Jefferson County, and Andrew J. Conner, Louisville, Ky. Drying kiln and furnace.....	Feb. 23, 1875	755	250	7	308
160,646	Cayce, John M., Franklin, Tenn. Motor.....	Mar. 9, 1875	358	121	7	409
166,069	Same..... Air-supply attachment for carbureters.....	July 27, 1875	928	287	8	172
166,847	Caylor, Jacob L., Bonham, Tex. Machine for washing photographs.....	Aug. 17, 1875	638	199	8	307
	Celluloid Manufacturing Company. (See Hyatt, John W. and Isaiah S., assignors.)					
170,156	Central Soap Company. (See Bryan, John P., assignor.)					
163,457	Cerf, L. Frederic, New York, N. Y. Furniture-caster.....	Nov. 23, 1875	847	265	8	868
163,458	Chabot, Anthony, San Francisco, Cal. Water-valve.....	May 18, 1875	698	223	7	862
165,712	Same..... Vent-valve.....	May 18, 1875	698	223	7	862
	Chace, Charles B., Lockland, Ohio. Hot-air furnace.....	July 20, 1875	574	176	8	112
170,053	Chace, Robert L. (See Covell, Chace & Weaver.)					
	Chadborn, George L. and John B., Newburgh, N. Y. Meat-cutter.....	Nov. 16, 1875	721	229	8	844
	Chadborn, John B. (See Chadborn, George L. and John B.)					
164,142	Chadick, Edwin D., Denison, Tex. Bale-tie.....	June 8, 1875	288	98	7	981
160,160	Chadwick, Joseph, et al. (See Scott, Walter, assignor.)					
159,793	Chadwick, Joseph H., Wheaton, Ill. Clothes-frame.....	Feb. 23, 1875	886	292	7	326
158,468	Chafee, Nathan M., Providence, R. I. Molder's flask.....	Feb. 16, 1875	538	180	7	271
161,480	Chafee, Vosco M., Clay City, Ill. Stump-plow.....	Jan. 5, 1875	104	35	7	23
	Chafee, Charles S. (See Haines, John W., assignor.)					
164,805	Chafee, Reuben S., assignor of one-half interest to Bernard Stuve, Springfield, Ill. Magazine fire-arm.....	Mar. 30, 1875	1174	377	7	540
161,481	Chalze, Louis, assignor of one-half interest to Henry M. Naglee, San José, Cal. Faucet.....	June 22, 1875	918	298	7	1082
159,541	Chalender, George F., Aurora, Ill. Fire-box-door ring.....	Mar. 30, 1875	1175	377	7	540
	Chalfant, Franklin, Lancaster, Pa., and Jeff. Chalfant, Kinmundy, Ill. Device for warming and ventilating railway-cars.....	Feb. 9, 1875	301	97	7	233
159,078	Chalfant, George A., Etna, and Ignatius Hahn, Pittsburgh, Pa. Rolling-mill.....	Jan. 26, 1875	719	237	7	145
	Chalfant, Jefferson. (See Chalfant, Franklin & Jefferson.)			238		

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164, 520	Challen, Joseph H. (See Snow, William, assignor.) Chalmers, William, Detroit, Mich. Pan-forming machine	June 15, 1875	650	{ 210 211 }	7	1037
164, 639	Chamberlain, Addis E. (See Crowley & Chamberlain.) Chamberlain, A. N. (See Danforth, Deloss A., assignor.) Chamberlain, Carrie W., Denver, Colo. Combined cradle and bedstead	June 22, 1875	766	{ 251 252 }	7	1062
163, 300	Chamberlain, De Witt C., et al. (See Harrell, William K., assignor)..... (Reissue.)					
164, 423	Chamberlain, Edmund D., Westfield, N. J. Hand-stamp	May 18, 1875	560	179	7	844
165, 790	Chamberlain, Ephraim, Weymouth, Mass. Bath-tub	June 15, 1875	569	185	7	1027
	Chamberlain, James, and Henry H. Seiple, Melmore, Ohio. Harrow	July 20, 1875	647	199	8	122
164, 143	Chamberlain, Richard, et al. (See Huggins, John, assignor.) Chamberlain, Thomas B., et al. (See Harrell, William K., assignor)..... (Reissue.)					
165, 541	Chamberlain, William C., Dubuque, Iowa. Rotary churn-dasher	June 8, 1875	289	99	7	981
168, 081	Chamberlin & Son, George. (See Mason & Chamberlin, assignors.) Chamberlin, Charles A., Camden, N. J. Chain-cable	July 13, 1875	406	121	8	72
	Same..... Studded link	Sept. 28, 1875	677	214	8	525
6, 611	Chamberlin, Edwin, et al. (See Chamberlin, Edwin, assignor.) Chamberlin, Edwin, assignor to self and Lee and Edward Chamberlain, Troy, N. Y. Vehicle-spring					
167, 065	Chamberlin, Edwin, Troy, N. Y. Carriage-spring	Aug. 24, 1875	956	298	8	359
167, 066	Same..... Vehicle-spring	Aug. 24, 1875	865	269	8	347
167, 067	Same..... Vehicle-spring	Aug. 24, 1875	866	270	8	347
167, 068	Chamberlin, Edwin, assignor of two-thirds interest to Lee and Edward Chamberlin, Troy, N. Y. Side-spar vehicle	Aug. 24, 1875	867	270	8	347
	Same..... Vehicle-spring	Aug. 24, 1875	867	270	8	347
167, 988	Chamberlin, Franklin L. (See Britton & Chamberlin.) Chamberlin, George. (See Mason & Chamberlin.) Same..... (See Owens & Chamberlin.)					
162, 152	Chamberlin, George W., and Sewell G. Cushing, Fitchburgh, Mass.; said Chamberlin assignor to said Cushing. Machine for cutting wood-screws	Sept. 21, 1875	556	179	8	502
	Chamberlin, Henry J. (See Ayres & Chamberlin)..... (Reissue.)					
	Chamberlin, Henry J., Worcester, Mass. Broiler	Apr. 20, 1875	520	171	7	658
	Chamberlin, Henry W. (See Mason & Chamberlin.) Chamberlin, Lee, et al. (See Chamberlin, Edwin, assignor.) Same..... same..... (Reissue.)					
168, 614	Chamberlin, Reuben, Hartford, Conn. Electric gas-lighting apparatus	Oct. 11, 1875	296	96	8	614
164, 424	Chamberlin, W. S., et al. (See Fairbairn, William U., assignor)..... (Reissue.)					
163, 359	Chambers, Adam, Pueblo, Colo. Rotary measure	June 15, 1875	570	185	7	1027
163, 152	Chambers, Alexander, jr., and Alexander M. McCook, United States Army. Convertible meat case or can	May 18, 1875	614	196	7	851
160, 876	Chambers, Austin, London, Great Britain. Pneumatic railway-signaling apparatus	May 11, 1875	403	130	7	807
169, 520	Chambers, Benjamin, jr. (See McMurtrie & Chambers.) Chambers, Benjamin C., Shady Plain, Pa. Sewing-machine motor	Mar. 16, 1875	587	191	7	447
164, 904	Same..... Priming attachments to planing-machines	Nov. 2, 1875	177	59	8	759
	Chambers, Cyrus, jr., Philadelphia, Pa. Machine for covering, folding, and pasting paper	June 29, 1875	1031	{ 332 333 }	7	1103
169, 415	Chambers, O. (See Fisher, Daniel A., assignor.) Chameroy, Edme A., Paris, France. Scale-beam	Nov. 2, 1875	88	27	8	747
159, 902	Champion, Henry E., Detroit, Mich. Steam-boiler furnace	Feb. 16, 1875	640	212	7	285
168, 718	Champion, Somers T. (See Lake, Ezra B., assignor.) Champion, Will. C., Stanton, Tenn. Seed-planter	Oct. 11, 1875	387	126	8	627
167, 303	Champlin, Jonathan, Penn Yan, N. Y. Tire-tightening machine	Aug. 31, 1875	1099	346	8	387
158, 625	Chance, Henry. (See Mowry & Chance.) Chancellor, Edmund P., Parkersburgh, W. Va. Furnace for steam-boilers	Jan. 12, 1875	257	87	7	60
171, 598	Chancellor, W. N. (See Long, David W., assignor.) Chandlee, Isaac G., Philadelphia, Pa. Loom-shuttle-box mechanism	Dec. 28, 1875	928	304	8	1098
161, 806	Chandlee, William E., and Edwin H. King, Washington, D. C. Case for freshing cigars	June 22, 1875	919	298	7	1082
170, 234	Chandler, Aaron, et al. (See Bean, John, assignor.) Chandler, Horace J., Dummer, assignor of one-half interest to Merrill C. Forist, Berlin, N. H. Tuyere	Nov. 23, 1875	917	285	8	877
166, 500	Chandler, Jesse, Barry, Ill. Water-elevator	Aug. 10, 1875	314	95	8	251
170, 620	Same..... Weather-strip	Nov. 30, 1875	1288	407	8	937
158, 570	Chandler, Thomas E. (See Taylor, Franklin, assignor.) Chandler, Thomas E., and Franklin Taylor, Indianapolis, Ind. Tile-machine	Jan. 12, 1875	208	71	7	53
158, 571	Chandler, Thomas E., assignor of one-half interest to Franklin Taylor, Indianapolis, Ind. Pitman	Jan. 12, 1875	209	71	7	53
6, 239	Chaney, Nathan P. (See Manley, Henry P., assignor.) Channing, William F., Providence, R. I., and Moses G. Farmer, Salem, Mass. Electro-magnetic fire-alarm telegraph for cities					
6, 240	Same..... same..... (Reissue).....	Jan. 19, 1875	641	212	7	127
6, 241	Same..... same..... (Reissue).....	Jan. 19, 1875	644	213	7	127
	Same..... same..... (Reissue).....	Jan. 19, 1875	647	213	7	127
170, 469	Chapin, Alexander H. (See Desbrough, George, assignor.) Chapin, Dwight B., Covington, Ky. Tobacco-drier	Nov. 30, 1875	1142	361	8	918
161, 006	Chapin, Edward P. (See Wicks, Joseph F., assignor.) Chapin, Gardner B., et al. (See Toppan, Daniel L., assignor.) Chapin, Henry H., Adrian, Mich. Traction-vehicle	Mar. 23, 1875	707	233	7	472
160, 749	Chapin, Lebus C. (See Laurence, William S., assignor.) Chapman, Alexander. (See Bowman & Chapman.) Chapman, Charles H., Shirley, Mass. Loom for weaving suspender-webbing	Mar. 16, 1875	474	155	7	432
167, 431	Chapman, Frank, assignor of one-half interest to Nelson R. Bolles, Aurora, Wis. Thill-coupling	Sept. 7, 1875	48	14	8	413
168, 873	Chapman, Friend J., assignor to self and Joseph R. Seddall, McLeansborough, Ill. Combination-lock	Oct. 19, 1875	536	176	8	656
161, 665	Chapman, George A. (See Smith, Isaac, assignor.) Chapman, George A., Millbury, Mass. Journal and bearing	Apr. 6, 1875	68	24	7	579
170, 524	Chapman, George A., Woonsocket, R. I. Machine for fixing couplings to shafts	Nov. 30, 1875	1192	376	8	924
160, 571	Chapman, Huston I., Portland, Oreg. Non-freezing hydrant for fire-plugs, &c.	Mar. 9, 1875	295	100	7	400
160, 647	Chapman, John C. (See Chapman, Rufus B. and John C.) Chapman, John C., Passaic, N. J. Metal-bending machine	Mar. 9, 1875	300	121	7	409
162, 458	Same..... Machine for boring cylinders	Apr. 27, 1875	832	268	7	705
163, 740	Chapman, John Y., Buffalo, N. Y. Machine for making barrels	May 25, 1875	970	307	7	905
160, 305	Chapman, Leonard S., Washington, D. C. Service coupler-pipe	Mar. 2, 1875	42	16	7	355
163, 301	Same..... Fire-plug or hydrant	May 18, 1875	561	{ 179 180 }	7	844
162, 743	Chapman, Luke, Collinsville, Conn. Centrifugal pump	May 4, 1875	8	3	7	748

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168, 830	Chapman, Luke, Collinsville, assignor of two-thirds interest to William J. Wood and William E. Simonds, Hartford, Conn. Nut-lock.....	Oct. 19, 1875	499	163	8	651
6, 556	Chapman, Mark C. (See Chapman, Matthew T. and Mark C.)..... (Reissue.)					
162, 744	Chapman, Matthew T. and Mark C., Aurora, Ill. Driven or bored wells..... (Reissue.)	July 27, 1875	1040	.....	8	188
168, 719	Chapman, Nathan, Hopedale, Mass. Loom-temple.....	May 4, 1875	9	4	7	748
160, 877	Same..... Machine for setting temple-teeth.....	Oct. 11, 1875	387	127	8	627
160, 814	Chapman, Rufus B., Cambridgeport, Mass., and John C. Chapman, Passaic, N. J. Reversing mechanism.....	Mar. 16, 1875	588	191	7	447
169, 416	Chapman, Samuel B., New York, N. Y. Car-wheel.....	Mar. 16, 1875	538	174	7	440
166, 257	Chapman, William M., Ravenna, Ohio. Belt-fastener.....	Nov. 2, 1875	89	27	8	747
170, 157	Charch, John S., Dayton, Ohio. Tailor's measure.....	Aug. 3, 1875	66	21	8	208
	Same..... Tailor's coat-measure.....	Nov. 23, 1875	848	265	8	868
159, 079	Chard, Richard J., et al. (See Hoagland, Isaac W., assignor.)					
	Chard Samuel, Mianus, Conn. Wagon-jack.....	Jan. 26, 1875	721	238	7	145
162, 271	Charles, Edgar W., jr. (See Dubose & Charles.)					
161, 204	Charles, Elbert R., Petaluma, Cal. Bit-stock.....	Apr. 20, 1875	631	206	7	672
6, 758	Charles, Robert. (See Blackie, Stephen, assignor.)					
161, 861	Charlton, John, assignor to George V. Cresson, Philadelphia, Pa. Band-pulley.....	Mar. 23, 1875	888	291	7	496
169, 521	Charter, John, Sterling, Ill. Cigar-mold..... (Reissue.)	Nov. 23, 1875	1095	344	8	903
	Chase, Benjamin F., Jacksborough, Tex. Apparatus for working glass.....	Apr. 13, 1875	248	82, 83	7	616
	Chase, Charles H., assignor of one-half interest to Jasper Thayer, New Orleans, La. Bale-tie.....	Nov. 2, 1875	178	59	8	759
170, 054	Chase, Charles H., New Orleans, La. Bale-band-tightening device.....	Nov. 16, 1875	722	{ 229 230 }	8	845
160, 572	Chase, Daniel L. F., Somerville, Mass. Steam-governor.....	Mar. 9, 1875	296	100	7	400
162, 219	Chase, Daniel L. F., Somerville, assignor of one-half interest to Lewson E. Chase, Watertown, Mass. Governor.....	Apr. 20, 1875	582	191	7	666
	Chase, David B. (See Clarke & Chase.)					
	Chase, Edwin D. (See Chase, Henry I., Philander F., and Edwin D.)					
	Same..... same..... (Reissue.)					
170, 345	Chase, Frank, Boston, assignor of one-half interest to Rufus Leavitt, Melrose, and James M. Brant, Weymouth, Mass. Sewing-machine.....	Nov. 23, 1875	1013	318	8	891
6, 227	Chase, Henry I., Philander F., and Edwin D., Peoria, Ill. Grain-elevator..... (Reissue.)	Jan. 12, 1875	398	134	7	79
6, 228	Same..... same..... (Reissue.)	Jan. 12, 1875	399	134	7	80
170, 711	Same..... Grain-conveyer shaft.....	Dec. 7, 1875	53	16	8	958
171, 504	Chase, Henry W., Sumner, Me. Car-coupling.....	Dec. 28, 1875	844	276	8	1086
	Chase, I. A. (See Unverzagt, William, assignor.)					
168, 874	Chase, Irah, New York, and George M. Ball, Green Point, N. Y. Opera-chair.....	Oct. 19, 1875	536	176	8	656
164, 073	Chase, James, Rochester, N. Y. Curtain-fixture bracket.....	June 8, 1875	229	80	7	973
164, 074	Same..... Combined aquarium, bird-cage, and flower-stand.....	June 8, 1875	230	80	7	973
158, 831	Chase, J. C., Rutland, Ohio. Washing-machine.....	Jan. 19, 1875	463	155	7	104
160, 392	Chase, Jefferson, Orange, Mass. Pruning-shears.....	Mar. 2, 1875	118	43	7	366
167, 386	Chase, John E., Tom's River, N. J. Window-screen.....	Sept. 7, 1875	5	2	8	407
171, 533	Chase, Joseph W., Middleport, Ohio. Cultivator.....	Dec. 28, 1875	843	276	8	1086
	Chase, Lewson E. (See Chase, Daniel L. F., assignor.)					
166, 683	Chase, Lucius C., Boston, Mass. Rope helter.....	Aug. 17, 1875	493	150	8	285
162, 350	Chase, Milton, and Alonzo W. Cram, Haverhill, Mass. Vessel for inflammable liquids.....	Apr. 20, 1875	703	228	7	681
	Chase, Philander F. (See Chase, Henry I., Philander F., and Edwin D.)					
	Same..... same..... (Reissue.)					
171, 549	Chase, William D. (See Meinikheim & Chase.)					
	Chatfield, Alonzo B., Anamosa, Iowa. Door-spring.....	Dec. 28, 1875	882	288	8	1092
171, 599	Chatterton, George, et al. (See Olmsted, Joseph, assignor.)					
163, 636	Chavasse, Auguste, assignor of one-half interest to Arsène Rambouillet, Montreal, Canada. Anti-incrustation compound.....	Dec. 28, 1875	929	.....	8	1098
161, 930	Cheadle, Nathan R., Delta, Ohio. Stone-extracting tool.....	May 25, 1875	884	279	7	893
166, 258	Cheal, Thomas, Saint Paul, Minn. Horse-collar.....	Apr. 13, 1875	314	105	7	624
164, 144	Cheek, Manassah C., Mansfield, Tenn. Seed-cotton cleaner.....	Aug. 3, 1875	67	21	8	208
	Cheetham, Thomas, Lewiston, Me. Shuttle for looms.....	June 8, 1875	289	99	7	981
161, 666	Cheney, Ansel J. (See Hodgdon, Edwin, assignor.)					
161, 931	Cheney, Charles D., Canandaigua, N. Y. Laboratory gas-burner.....	Apr. 6, 1875	69	25	7	579
	Same..... Dental articulator.....	Apr. 13, 1875	314	105	7	624
	Cheney, James W. (See Howe, Solon G., assignor.)					
	Same..... same..... (Reissue.)					
159, 247	Cherry, James N., Keokuk, Iowa. House-building.....	Feb. 2, 1875	6	2	7	185
169, 417	Cherry, Moses M. (See Cherry, Samuel, assignor.)					
	Cherry, Moses M., assignor of one-half interest to Samuel Cherry, New Plymouth, Ohio. Hay-fork.....	Nov. 2, 1875	90	27	8	747
169, 418	Cherry, Samuel. (See Cherry, Moses M., assignor.)					
	Cherry, Samuel, assignor of one-half interest to Moses M. Cherry, New Plymouth, Ohio. Gate-latch.....	Nov. 2, 1875	90	28	8	747
162, 459	Chesebro, Denison S., Geddes, N. Y. Protector for stoneware jars.....	Apr. 27, 1875	834	269	7	705
158, 676	Chesebrough, Julius F. (See Jones, Anthony A., assignor.)					
	Chesebrough, Robert A., New York, N. Y. Apparatus for raising water by pneumatic pressure.....	Jan. 12, 1875	303	103	7	66
	Cheseldine, Samuel P., et al. (See Davis, William C., assignor.) (Design.)					
	Chessman, Robert. (See Coyne, John, assignor.)					
165, 063	Chester, Charles T., Englewood, N. J. Dial electric telegraph.....	June 29, 1875	1166	{ 375 376 }	7	1121
164, 425	Chester, Stephen, Elizabeth, N. J. Fire-alarm signal-box.....	June 15, 1875	571	186	7	1027
169, 087	Same..... Fire-alarm telegraph.....	Oct. 26, 1875	757	247	8	694
161, 482	Chevallier, Louis, Brooklyn, N. Y. Sewing-machine.....	Mar. 30, 1875	1175	{ 377 378 }	7	540
	Chicago Wheat Steaming Machine Manufacturing Company. (See Hunt, John C., assignor.)					
159, 080	Chichester, Lewis S., assignor to John J. Tyler, New York, N. Y. Machine for hulling and scouring grain.....	Jan. 26, 1875	721	238	7	145
	Chick, Joseph S., et al. (See Redheffer, William, assignor.)					
169, 341	Chick, Washington H., et al. (See Redheffer, William, assignor.)					
	Child, Orlando, Claremont, N. H. Mechanical movement.....	Nov. 2, 1875	17	5	8	737
	Child, Pascal P. (See Felt & Child.)					
	Child, Sullivan S. (See Patton, William P., assignor.)					
158, 906	Children, Edwin, Dunleith, Ill. Coupling-joints for cultivator-teeth.....	Jan. 19, 1875	536	179	7	113
159, 500	Same..... Cultivator.....	Feb. 9, 1875	257	83	7	228
	Childs, Isaac P. (See Kerper, Jacob N., assignor.)					
	Childs, John. (See Stouffer, Hiram C., assignor.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
168, 515	Childs, Walter C., Pittsburgh, Pa. Grate-bar.....	Oct. 11, 1875	297	96	8	614
170, 817	Same..... same.....	Dec. 7, 1875	147	49	8	970
170, 988	Chillingworth, Felix, Providence, R. I. Safety-lock for fire-arms.....	Dec. 14, 1875	320	106	8	1000
169, 237	Chilson, Libbeus, assignor of one-third interest to Seth Arnold, Woonsocket, R. I. Rail-way-rail-joint fastening.....	Oct. 26, 1875	891	290	8	714
6, 265	Chinnock, Charles, Brooklyn, assignor, by mesne assignments, to Charles N. Crittenton, New York, N. Y. Injector for insect-powder..... (Reissue)	Feb. 2, 1875	238	78	7	217
159, 903	Chinnock, George H., assignor to Leonard Richardson, Brooklyn, N. Y. Machine for soldering sheet-metal lids.....	Feb. 16, 1875	641	212	7	285
163, 576	Chinnock, George H., Brooklyn, N. Y. Refrigerating apparatus.....	May 25, 1875	826	261	7	886
168, 229	Same..... Toy building-block.....	Sept. 28, 1875	811	257	8	544
168, 230	Same..... Articulated toy figure.....	Sept. 28, 1875	812	258	8	544
167, 224	Chiòzza, Louis, Cervignano, Austria. Process of treating maize.....	Aug. 31, 1875	1033	.....	8	377
6, 310	Chipley, William H., New Midway, Md. Apron-supporter and page..... (Reissue)	Mar. 2, 1875	223	77	7	381
168, 373	Chipman, George W., Boston, Mass. Carpet-lining.....	Oct. 5, 1875	49	18	8	571
168, 374	Same..... same.....	Oct. 5, 1875	50	18	8	571
168, 082	Chisholm, George D., assignor of one-half interest to Summerfield Douglass, East Flamborough, Canada. Device for preventing horses from jumping.....	Sept. 28, 1875	677	214	8	525
6, 484	Chisholm, Henry, Cleveland, Ohio. Roll for utilizing the fag-ends of railway-rails. (Reissue)	June 15, 1875	746	244	7	1051
6, 738	Same..... same..... (Reissue)	Nov. 16, 1875	815	257	8	856
167, 604	Chisholm, Wilson B., Cleveland, Ohio. Valve for pneumatic pumps.....	Sept. 14, 1875	213	66	8	443
168, 451	Chislett, Joseph R., Plymouth, England. Induction-coil.....	Oct. 5, 1875	116	39, 40	8	582
158, 626	Choat, David T., Cedar Falls, Iowa. Flour-bolt.....	Jan. 12, 1875	257	87, 88	7	60
161, 862	Choate, W., Newton Centre, assignor to self and John M. Clinch, Boston, Mass. Slate-pencil sharpener.....	Apr. 13, 1875	249	83	7	616
167, 432	Chormann, Ernest G., Philadelphia, Pa. Parlor-easel.....	Sept. 7, 1875	48	14, 15	8	413
8, 596	Christesen, Rudolph, assignor to Meriden Britannia Company, West Meriden, Conn. Band for plated ware..... (Design)	Sept. 7, 1875	.....	.....	8	403
167, 069	Christian, Charles E., Erie, Pa. Low-water indicator.....	Aug. 24, 1875	868	270	8	347
	Christian, Joseph, et al. (See Van Bunschoten, Isaac, assignor.)					
	Christian, Samuel, et al. (See Van Bunschoten, Isaac, assignor.)					
166, 501	Christie, Jacob D., Schraffenburgh, N. J. Windmill.....	Aug. 10, 1875	315	95	8	251
166, 747	Christie, James J., assignor of one-half interest to James A. Armstrong, Camden, N. J. Nursing-bottle.....	Aug. 17, 1875	553	170	8	294
158, 779	Christie, John, New Orleans, La. Shutter-fastener.....	Jan. 19, 1875	414	139	7	97
158, 780	Same..... Fastener for the meeting-rails of sashes.....	Jan. 19, 1875	414	139	7	98
160, 509	Same..... Combined fastener for meeting-rails of sashes and blinds.....	Mar. 9, 1875	242	83	7	392
7, 977	Christie, Joseph M., Kidderminster, England, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet..... (Design)	Jan. 5, 1875	.....	.....	7	5
7, 978	Same..... same..... (Design)	Jan. 5, 1875	.....	.....	7	5
7, 979	Same..... same..... (Design)	Jan. 5, 1875	.....	.....	7	5
7, 980	Same..... same..... (Design)	Jan. 5, 1875	.....	.....	7	5
7, 981	Same..... same..... (Design)	Jan. 5, 1875	.....	.....	7	5
8, 344	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 345	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 346	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 347	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 348	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 349	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 350	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 351	Same..... same..... (Design)	May 25, 1875	.....	.....	7	879
8, 610	Christie, Joseph M., Kidderminster, England, assignor to Lowell Manufacturing Company. Carpet..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 611	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 612	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 613	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 614	Christie, Joseph M., Kidderminster, England, assignor to Lowell Manufacturing Company. Carpet..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 615	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 616	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 617	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 618	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 619	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 620	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 621	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 622	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
8, 623	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 624	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 625	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 626	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 627	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 628	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 629	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 630	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 631	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 632	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 633	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 634	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
6, 635	Same..... same..... (Design)	Sept. 7, 1875	.....	.....	8	403
161, 863	Christin, Arthur, Chicago, Ill. Bottle-stopper.....	Apr. 13, 1875	250	83	7	616
168, 875	Christinger, John C., Bristol, Conn. Folding ladder for firemen.....	Oct. 19, 1875	537	176	8	657
8, 212	Christi, Josef, Newark, N. J. Alto-relievo..... (Design)	Mar. 23, 1875	.....	.....	7	466
	Christophe, Sebastian. (See Brugger & Christophe.)					
168, 234	Christy, John, assignor of one-half interest to Milo Hunter and Byron O. Brigham, Clyde, Ohio. Garden-implement.....	Sept. 28, 1875	817	259	8	545
169, 147	Christy, John, assignor to self, Milo Hunter, and Byron O. Brigham, Clyde, Ohio. Stove-pipe shelf.....	Oct. 26, 1875	813	264	8	702
171, 600	Christy, William T., Saint Louis, Mo. Kiln for fire-brick.....	Dec. 28, 1875	929	304	8	1098
169, 088	Chritton, James M., Marengo, Iowa, assignor to self and John S. Swaney. Harvester.....	Oct. 26, 1875	763	247	8	695
160, 508	Chubb, Edwin A., Ionia City, Mich. Process of chilling cast iron.....	Mar. 9, 1875	241	83	7	391
	Church, Dwight M. (See Glover & Church.)					
159, 794	Church, Dwight M., and William F. Gilbert, Derby, Conn. Sharpening attachment to forks.....	Feb. 16, 1875	542	180	7	272
163, 849	Church, Edwin, Cleveland, Ohio. Grading apparatus.....	June 1, 1875	13	4	7	932
	Church, Henry A. (See Garrick, Thomas, assignor.) (Reissue)					
166, 259	Church, Horace B., Jefferson City, Mo. Door-check.....	Aug. 3, 1875	68	21	8	208

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
162, 220	Church, John B., Scarborough, N. Y. Elevated railway.....	Apr. 20, 1875	582	191	7	666
167, 497	Church, Marius C. C., Parkersburgh, W. Va. Heating-stove.....	Sept. 7, 1875	100	31	8	421
161, 591	Church, Melvin P., Grand Rapids, assignor to self and George Eastman, Eastmanville, Mich. Calcimine.....	Apr. 6, 1875	4	.....	7	569
161, 864	Church, Titus S., assignor to self and Edwin R. Flint, Boston, Mass. Method of killing vermin.....	Apr. 13, 1875	250	83	7	616
166, 848	Church, Walter C., London, England. Balanced valve.....	Aug. 17, 1875	638	{ 199 200 201 }	{ 8 8 8 }	{ 307 308 308 }
166, 844	Church, Walter C., Westminster, England. Port for steam-engine cylinders.....	Aug. 17, 1875	643	{ 199 200 201 }	{ 8 8 8 }	{ 307 308 308 }
168, 557	Churchill, Cornelius B., New Orleans, La. Press for baling cotton, hay, &c.....	Oct. 11, 1875	239	79	8	606
160, 306	Churchill, Melvin, Helvetia, Wis. Combined clothes and quilting frame.....	Mar. 2, 1875	43	16	7	355
	Churchill, Pembroke. (See Haag, George W., assignor.)					
164, 521	Churchill, Robert W., assignor of one-third interest to David J. Waters, Bridgeport, Conn. Toy pistol.....	June 15, 1875	651	211	7	1037
164, 807	Chutaux, Theophile, Paris, France. Galvanic battery.....	June 22, 1875	921	298	7	1082
165, 064	Same..... Electro-magnetic engine.....	June 29, 1875	1168	376	7	1122
165, 713	Gilley, David, Milo, Me. Lifting-jack.....	July 20, 1875	576	176	8	112
170, 818	Gilley, Ithiel J., Lamont, and Lewis A. Wright and Theodore Nelson, Grand Rapids, Mich. Washing and wringing machine.....	Dec. 7, 1875	148	49	8	970
	Claes & Co., C. (See Lehnbeuter, Joseph, assignor)..... (Design.)					
	Claes, Casper. (See Lehnbeuter & Claes)..... (Design.)					
168, 452	Claffin, Buckman, Galion, Ohio. Stove.....	Oct. 5, 1875	117	40	8	552
165, 210	Clamond, Joseph C., and Ladislas A. Gaiffe, Paris, France. Galvanic battery.....	July 6, 1875	67	.....	8	18
168, 083	Clapham, James H., Quebec, Canada. Knife-scourer.....	Sept. 23, 1875	678	215	8	525
	Clapp, C. M. (See Keene, George A., assignor.)					
168, 319	Clapp, Emerous D., and Frederick Van Patten, Auburn, N. Y. Top-prop for carriages.....	Oct. 5, 1875	5	2	8	565
168, 320	Same..... Axle-clip tie and loop.....	Oct. 5, 1875	6	2	8	565
168, 321	Same..... Axle-clip tie for carriages.....	Oct. 5, 1875	6	2	8	565
168, 322	Same..... Die for making body-loop blanks for carriages.....	Oct. 5, 1875	7	3	8	565
164, 637	Clapp, James H., Providence, R. I. Screw-press.....	June 22, 1875	764	251	7	1062
	Clapp, John J. (See Staples, John H., assignor.)					
	Clark & Co. (See Clark, Charles B., assignor)..... (Reissue.)					
	Clark, Abraham. (See Speers & Clark.)					
160, 082	Clark, Alexander H., Fond du Lac, Wis. Car-coupling.....	Feb. 23, 1875	821	270	7	317
	Clark, Alexander J. (See Emerson, Clark & Richmond.)					
171, 351	Clark, Charles, Minneapolis, Minn. Hot-air furnace.....	Dec. 21, 1875	682	{ 224 225 }	{ 8 8 }	{ 1056 1056 }
	Clark, Charles A. (See McGrew & Clark.)					
	Clark, Charles B., et al. (See Curtis, William H., assignor)..... (Reissue.)					
6, 731	Clark, Charles B., assignor to Clark & Co., Buffalo, N. Y. Brush-holder..... (Reissue.)	Nov. 9, 1875	568	177	8	815
8, 661	Clark, Charles B., Buffalo, N. Y. Jaw of mop and brush holder..... (Design.)	Sept. 21, 1875	.....	.....	8	475
163, 459	Same..... Sash-pulley.....	May 18, 1875	699	223	7	862
163, 460	Same..... Mop.....	May 18, 1875	700	223	7	862
166, 342	Same..... Mop-head.....	Aug. 3, 1875	143	44	8	220
167, 304	Same..... Mop and brush holder.....	Aug. 31, 1875	1100	846	8	387
170, 525	Same..... same.....	Nov. 30, 1875	1192	376	8	924
160, 083	Clark, Charles C., Boston, Mass. Car-brake.....	Feb. 23, 1875	822	270	7	317
164, 905	Clark, Clara P., Wakefield, Mass. Skirt-supporter.....	June 29, 1875	1033	333	7	1104
170, 712	Clark, Culver S., New York, N. Y. Paper-drying machine.....	Dec. 7, 1875	54	16	8	958
158, 907	Clark, Edward, New York, N. Y. Water-proof liquid blacking.....	Jan. 19, 1875	537	.....	7	113
163, 049	Same..... Extensible ladder.....	May 11, 1875	309	99, 100	7	795
8, 418	Clark, Edward C., Rockville, Conn. Cassimere..... (Design.)	June 22, 1875	.....	.....	7	1057
8, 550	Same..... Fabric for clothing..... (Case A. Design.)	July 27, 1875	.....	.....	8	149
8, 551	Same..... same..... (Case B. Design.)	July 27, 1875	.....	.....	8	149
8, 552	Same..... same..... (Case C. Design.)	July 27, 1875	.....	.....	8	149
8, 553	Same..... same..... (Case D. Design.)	July 27, 1875	.....	.....	8	149
8, 636	Same..... Fabric..... (Design.)	Sept. 7, 1875	.....	.....	8	403
8, 821	Same..... Cassimere..... (Design.)	Dec. 7, 1875	.....	.....	8	945
171, 098	Clark, Elijah, Paris, Ky. Electric clock.....	Dec. 14, 1875	418	139	8	1014
170, 235	Clark, Frank M., South Tamworth, N. H. Clothes-drier.....	Nov. 23, 1875	918	286	8	877
	Clark, Franklin N. (See Gibson, Robert F., assignor.)					
160, 648	Clark, Frederick J., Mount Pleasant, Iowa. Earth-auger.....	Mar. 9, 1875	361	122	7	409
166, 913	Clark, George, assignor of one-half interest to Jos. Kast and Charles F. Bitter, Buffalo, N. Y. Apparatus for drying malt.....	Aug. 24, 1875	719	223	8	327
	Clark, George H. (See Blossom & Clark.)					
158, 908	Clark, George H., Lockport, N. Y. Harvester.....	Jan. 19, 1875	537	179	7	113
	Clark, George O. (See Slemmer & Clark.)					
171, 469	Clark, George O., Philadelphia, Pa. Mail-bag.....	Dec. 28, 1875	804	265	8	1081
	Clark, Henry F. (See Palmer & Clark.)					
166, 684	Clark, Henry H., Washington, D. C. Steel glass-cutter.....	Aug. 17, 1875	494	151	8	286
	Clark, Henry R., et al. (See Curtis, William H., assignor)..... (Reissue.)					
165, 982	Clark, Henry W., Red Bluff, Cal. Adjustable sack-holder.....	July 27, 1875	850	261	8	161
169, 959	Same..... same.....	Nov. 16, 1875	640	260	8	833
162, 153	Clark, Irving D., Gloversville, N. Y. Baby-walker.....	Apr. 20, 1875	521	172	7	658
160, 649	Clark, Jacob H., assignor to George Sturges and Jacob H. Clark, Philadelphia, Pa. Ore-roasting furnace.....	Mar. 9, 1875	361	122	7	410
165, 542	Clark, James B., Plantsville, Conn. Die for heading and squaring bolts.....	July 13, 1875	407	122	8	72
160, 050	Clark, James C., South Bend, Ind. Refrigerator.....	Feb. 23, 1875	713	261	7	313
162, 030	Clark, James F., Morenci, Mich. Brick-machine.....	Apr. 13, 1875	390	131	7	634
166, 914	Clark, James M., Lancaster, Pa. Portable carbureted-hydrogen-gas machine.....	Aug. 24, 1875	720	223	8	327
	Clark, Jedediah P. (See Keyes & Clark.)					
163, 360	Clark, John A., Newark, N. J. Drip-pan for barrels.....	May 18, 1875	615	{ 196 197 }	{ 7 7 }	{ 851 851 }
	Clark, John C., administrator. (See Nobles, Milton V.)					
	Clark, John K., et al. (See Curtis, William H., assignor)..... (Reissue.)					
162, 031	Clark, John K., Buffalo, N. Y. Sash-fastener.....	Apr. 13, 1875	391	132	7	634
166, 850	Same..... Mop-head.....	Aug. 17, 1875	645	201	8	308
169, 419	Clark, Jonathan C., Middle Haddam, Conn. Bell-metal toy ball.....	Nov. 2, 1875	91	28	8	747
160, 573	Clark, Jonathan N., Bradford, Vt. Dental plate.....	Mar. 9, 1875	297	100	7	400
163, 975	Clark, Joseph, Green Point, N. Y., assignor of two-thirds interest to Abel Brear, Saugatuck, Conn., and Frank S. Smith, Brooklyn, N. Y. Furnace-grate bar.....	June 1, 1875	112	38	7	946
162, 531	Clark, Josiah L., and John Stanfield, Westminster, England. Floating dock and ponton.....	Apr. 27, 1875	897	{ 286 287 }	{ 7 7 }	{ 713 713 }
169, 010	Same..... Floating dock.....	Oct. 19, 1875	663	218	8	674

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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164, 075	Clark, Minford S., New York, N. Y. Pipe-wrench.....	June 8, 1875	231	80	7	973
	Clark, Patrick J. (See Kintz, Joseph, assignor)..... (Design.)					
	Same..... same..... (Reissue.)					
168, 616	Clark, Patrick J., and Joseph Kintz, West Meriden, Conn. Lantern.....	Oct. 11, 1875	298	96	8	614
	Clark, Reeves & Co. (See Kelly, Daniel R., assignor.)					
158, 677	Clark, Robert C., New York, N. Y. Water-closet.....	Jan. 12, 1875	304	103	7	66
171, 601	Clark, Robert E., Boonville, N. Y. Strainer for coffee-pots.....	Dec. 28, 1875	930	305	8	1099
166, 260	Clark, Robert M., Nisbet, Pa. Device for destroying bugs upon plants.....	Aug. 3, 1875	69	21	8	209
171, 505	Clark, Spencer M., Washington, D. C. Power-belt.....	Dec. 28, 1875	844	276	8	1086
	Clark, Thomas C. (See Raphael, George, assignor.)					
169, 148	Clark, Thomas H., Helena, Mont. Turbine wheel.....	Oct. 26, 1875	814	264	8	702
166, 453	Clark, Thompson, Akron, Ohio. Weather-strip.....	Aug. 10, 1875	278	83	8	246
	Clark Thread Company. (See Dimock, Martial, assignor.)					
161, 667	Clark, William, New York, N. Y. Napkin-holder.....	Apr. 6, 1875	70	25	7	579
160, 051	Clark, William A., New Haven, Conn. Blind-stop.....	Feb. 23, 1875	794	262	7	313
164, 145	Clark, William D., Springfield, Ill. Floor-clamp.....	June 8, 1875	290	99	7	981
	Clark, William H. (See Kittredge & Clark.)					
	Clark, William H. (See Smith, Clark, assignor.)					
160, 393	Clark, William H., John W. Richardson, and John Foller, Washington, D. C. Police-man's torch.....	Mar. 2, 1875	118	43, 44	7	366
166, 588	Clark, William H., and William J. and Anson O. Kittredge, assignors to Kittredge } Cornice and Ornament Company, Salem, Ohio. Sheet-metal-shearing machine..... }	Aug. 10, 1875	385	{ 119 } { 120 }	8	262
	Clark, William J. (See Clark & Kittredge.)					
	Clark, William J. (See Kittredge & Clark.)					
6, 291	Clark, William J., Mildale, Conn. Manufacture of bolts..... (Reissue.)	Feb. 16, 1875	729	242	7	297
162, 900	Clark, William O., Northampton, Mass. Cultivator.....	May 4, 1875	150	49	7	767
	Clarke, Abraham B., et al. (See Berger, Charles W., assignor.)					
159, 795	Clarke, Almon, Sheboygan, Wis., assignor to self and Charles A. Spencer. Umbrella-support for vehicles.....	Feb. 16, 1875	543	180	7	272
162, 797	Same..... Adjustable top.....	May 4, 1875	59	19	7	754
167, 433	Clarke, Frederick W., San Francisco, Cal. Force-pump.....	Sept. 7, 1875	49	15	8	473
	Clarke, George H. (See Van Syckel, Samuel, assignor.)					
164, 522	Clarke, Henry, Baltimore, Md. Combination seal-lock.....	June 15, 1875	652	211	7	1037
	Clarke, Horace. (See Rukgabee & Clarke.)					
	Clarke, John N. (See Greenwood & Clarke.)					
	Clarke, Lewis A. (See Houston, Samuel, assignor.)					
	Clarke, Lizzie D., administratrix, et al. (See Bell, A. John, assignor)..... (Reissue.)					
	Clarke, Thomas L., et al. (See Bell, A. John, assignor)..... (Reissue.)					
164, 808	Clarke, Thomas M., and David B. Chase, Winsted, Conn. Die for forming spurs on toe-calks for horseshoes.....	June 22, 1875	922	299	7	1082
171, 099	Clarkson, George, assignor to Benjamin Kent, Paterson, N. J. Process of compound-ing paper-pulp.....	Dec. 14, 1875	419	.....	8	1014
	Clarksville Iron Wagon Manufacturing Company. (See Ball, Ephraim, assignor.)					
166, 502	Clausolles, Emile E. P., Barcelona, Spain. Apparatus for measuring liquids, &c.....	Aug. 10, 1875	316	95	8	251
160, 258	Clawson, Isaac S., Monroe, Wis. Wagon-box.....	Mar. 2, 1875	5	3	7	349
162, 798	Clawson, Linus G., Pleasant Hill, Mo. Corn-plow.....	May 4, 1875	60	19	7	755
163, 741	Clay, Clemens, Philadelphia, Pa. Bell-pull.....	May 25, 1875	971	307	7	905
158, 781	Clay, Robert J., Boston, Mass. Automatic toy.....	Jan. 19, 1875	415	139	7	98
160, 161	Clay, William, Birkenhead, England. Turning-tool for metal.....	Feb. 23, 1875	887	292	7	326
161, 668	Clayton, Barnes, Philadelphia, Pa. Fastening for studs and buttons.....	Apr. 6, 1875	70	25	7	579
161, 385	Clayton, James, Portsmouth, Ohio. Machine for forming gear-wheel molds.....	Mar. 30, 1875	1087	352	7	529
161, 327	Clayton, Ransom F., Melrose, assignor to self and John Costello, Boston, Mass. Gas-generating burner.....	Mar. 30, 1875	1028	334	7	521
158, 469	Cleary, Edward, Houston, Tex. Locomotive smoke-stack.....	Jan. 5, 1875	105	35	7	23
169, 420	Cleave, T. James, Cleveland, Ohio. Weather-strip.....	Nov. 2, 1875	91	28	8	747
163, 742	Cleveland, Caleb T., Old Town, Me. Spool-holder.....	May 25, 1875	972	307	7	905
166, 187	Cleveland, Wallace W., Cold Water, Mich. Current water-wheel.....	Aug. 3, 1875	6	3	8	199
	Clegg, Charles B., et al. (See Archer, William S., assignor.)					
161, 932	Cleland, John W., Nevada, Mo. Hand corn-planter.....	Apr. 13, 1875	315	105	7	624
160, 162	Clem, James M., Opelika, Ala. Car-coupling.....	Feb. 23, 1875	888	292	7	327
163, 743	Clem, James M., assignor of part interest to W. B. Shapard, George A. and A. P. Birch, and W. S. Greene, Opelika, Ala. Car-coupling link.....	May 25, 1875	972	308	7	905
163, 361	Clemens, Gilbert H., and George C. Morgan, Chicago, Ill. Street-hydrant.....	May 18, 1875	616	197	7	851
165, 791	Clemens, Gilbert H., Chicago, Ill. Relief-valve.....	July 20, 1875	647	199	8	122
	Clement, James, et al. (See Hussey, John H., assignor.)					
164, 971	Clement, Julia P., Williamston, S. C. Hen's nest.....	June 29, 1875	1089	351	7	1111
	Clement, William. (See Linsley, McCulloch & Clement.)					
163, 577	Clements, Charles W., Yarmouth, Canada. Jib-bank.....	May 25, 1875	827	262	7	886
161, 592	Clements, William, Fiskville, Tex. Combined gang-plow and cultivator.....	Apr. 6, 1875	5	2	7	569
161, 754	Clements, William W., Camilla, Ga. Turpentine-pan.....	Apr. 6, 1875	142	49	7	589
168, 720	Cleminshaw, Benjamin F., Troy, assignor to Lloyd Canaday, Albany, N. Y. Fire-ex-tinguisher.....	Oct. 11, 1875	388	127	8	627
159, 562	Clemson, William, Middletown, N. Y. Saw-frame.....	Feb. 9, 1875	316	103	7	235
167, 434	Cleveland, George H., Camden, Me. Paper-bag holder.....	Sept. 7, 1875	51	15	8	413
163, 290	Cleveland, Jehial H., Buffalo, N. Y. Sewing-machine tucker.....	May 11, 1875	535	172	7	824
158, 470	Cleveland, Jerome, assignor to self and Henry Haines, Tecumseh, Mich. Saw-filing machine.....	Jan. 5, 1875	106	35, 36	7	24
	Cleveland, John F. (See Schomerhorn, Charles, assignor.)					
	Cleveland, Orestes. (See Somers, Daniel M., assignor.)					
	Cleveland, Orestes. (See Tower, Levi L., assignor)..... (Reissue.)					
	Clewley, Francis. (See Byrom & Clewley.)					
	Cliff, Eaton. (See Bates, Joseph W., assignor.)					
161, 032	Clime, John C., assignor of two-thirds interest to Jonathan C. Cline and Joseph Ling, Philadelphia, Pa. Roundabout.....	Apr. 13, 1875	392	132	7	635
	Clime, Jonathan C., et al. (See Clime, John C., assignor.)					
	Clinch, John M. (See Choate, George W., assignor.)					
165, 543	Cline, John B., Jefferson, Iowa. Elevator-bucket.....	July 13, 1875	408	122	8	72
160, 815	Cline, Martin, assignor to self and William J. Cline, Chicago, Ill. Egg-beater.....	Mar. 16, 1875	539	175	7	440
	Cline, Seiberling & Co. (See Seiberling, James H., assignor.)					
160, 005	Cline, William, jr., assignor to Henry A. Marley, Clayton, Ind. Car-coupling.....	Feb. 23, 1875	755	250	7	308
	Cline, William J. (See Cline, Martin, assignor.)					
164, 266	Clinton, Charles M., and Lynfred Mood, Ithaca, N. Y. Horse-rake.....	June 8, 1875	403	{ 135 } { 136 }	7	996
160, 394	Clinton, Henry E., Seymour, Conn., assignor to John Matthews & Co., New York, N. Y. Machine for bottling aerated liquids.....	Mar. 2, 1875	119	44	7	366

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165, 475	Clinton, Minor B. (See Ford, Oscar E., assignor.)	July 13, 1875	347	102	8	63
164, 972	Clinton Orson P., Menasha, Wis. Automatic gate	June 29, 1875	1090	351	7	1111
167, 498	Clinton Wire-Cloth Company. (See Waters, Charles H., assignor) (Reissue.)	Sept. 7, 1875	101	32	8	421
166, 070	Clippenger, Hugh L., Martinsburgh, W. Va. Weather-boarding	July 27, 1875	929	287	8	172
169, 149	Cliver, George E., assignor to self and Robert Eastman, Philadelphia, Pa. Motor for railway-cars	Oct. 26, 1875	815	264 265	8	702
158, 361	Clooney, Benjamin A., assignor to New York Car Spring Company, New York, N. Y. Car-spring	Jan. 5, 1875	9	3	7	10
161, 386	Clooney, Benjamin A., New York, N. Y., assignor to New York Car Spring Company. Car-spring	Mar. 30, 1875	1087	352	7	529
167, 305	Clopton, James P., Milan, Tenn. Harness-hame	Aug. 31, 1875	1101	346	8	388
8, 221	Close, Stewart B., New York, N. Y. Dish (Design)	Mar. 23, 1875			7	466
168, 876	Close, Thomas J., Philadelphia, Pa. Tool handle	Oct. 19, 1875	538	176	8	657
168, 877	Closterman, Joseph L., Cincinnati, Ohio. Sofa-bedstead	Oct. 19, 1875	538	177	8	657
166, 967	Clotworthy, William P., Baltimore, Md. Combination syringe	Aug. 24, 1875	773	238	8	334
169, 238	Same. Syringe	Oct. 26, 1875	891	290	8	714
163, 744	Cloud, William H., and David D. Craig, Fremont, Ohio. Vehicle-seat	May 25, 1875	973	308	7	905
170, 989	Cloudman, Augustus F., assignor of one-half interest to José Fernandez, Brooklyn, N. Y. Automatic fan	Dec. 14, 1875	321	106	8	1000
164, 267	Clough, Jefferson M., assignor to E. Remington & Sons, Ilion, N. Y. Swivel-band for fire-arms	June 8, 1875	407	136	7	996
158, 832	Clough, Theodore, assignor to self, Alonzo T. Welsh, Henry Iden, and Loring P. Hawes, New York, N. Y. Argand gas-burner	Jan. 19, 1875	464	156	7	104
159, 796	Clough, William R., Newark, N. J. Bill-file	Feb. 16, 1875	543	180	7	272
161, 755	Same. Wire cork-screw	Apr. 6, 1875	142	49	7	589
162, 351	Clover, Bertrand. (See Grover, Theodore L., assignor.)					
169, 776	Clover, Charles S., administrator. (See Clover, Harvey H.)					
162, 351	Clover, Harvey H., deceased, Cincinnati, Ohio, by Charles S. Clover, administrator, Bay City, Mich. Hydrant	Apr. 20, 1875	703	229	7	681
169, 776	Clow, George E., and Perlee H. Webster, Chicago, Ill. Wagon-tongue support	Nov. 9, 1875	460	145	8	802
164, 426	Clowes, William, jr., et al. (See Hooker, John, assignor.)					
158, 627	Clowes, William C. K., et al. (See Hooker, John, assignor.)					
161, 205	Clubb, John, Seneca, N. Y. Fifth-wheel for carriages	June 15, 1875	574	186	7	1027
166, 748	Cluett, J. W. Alfred, Troy, N. Y. Cuff	Jan. 12, 1875	258	88	7	60
6, 352	Cluett, Robert, Troy, N. Y. Shirt-bosom	Mar. 23, 1875	889	292	7	496
170, 055	Clunan, James, Brooklyn, N. Y. Water-proofing compound for leather	Aug. 17, 1875	554		8	294
160, 750	Clute, Solomon J., and Daniel M. Durfee, Rockwood, N. Y. Glove (Reissue)	Mar. 30, 1875	1280	411	7	554
165, 544	Cluxton, Henry B., Ripley, Ohio. Fence	Nov. 16, 1875	723	230	8	845
158, 471	Clymans, William S., Burnt Cabins, Pa. Grain-separator	Mar. 16, 1875	476	156	7	432
164, 811	Same. same	July 13, 1875	409	122	8	73
167, 499	Coates, Amos W., Alliance, Ohio. Horse hay-rake	Jan. 5, 1875	107	36	7	24
158, 782	Same. Spring-chair	June 22, 1875	926	300	7	1083
164, 640	Coats, Chandler C., Newark, N. J. Railway-switch	Sept. 7, 1875	101	32	8	421
158, 628	Coats, Oliver P. (See Boag, Alexander, assignor.)					
168, 375	Coburn, Jehiel C. and Lemuel, Worcester, Mass.; said Jehiel C. assignor to said Lemuel. Mechanism for molding paper-pulp	Jan. 19, 1875	415	140	7	98
161, 098	Coburn, Lemuel. (See Coburn, Jehiel C. and Lemuel.)					
161, 099	Coburn, Melville B., Ruff's Dale, Pa. Wardrobe	June 22, 1875	766	252	7	1062
158, 678	Coburn, Oscar M., Beaver Falls, Pa. Hame-fastener	Jan. 12, 1875	259	88	7	60
159, 644	Cochems, Henry, Easton, Pa. Key-hole guard for locks	Oct. 5, 1875	50	18	8	572
167, 644	Cochran, Henry S., Philadelphia, Pa. Coin-scales	Mar. 23, 1875	797	261 262	7	484
6, 594	Cochran, John, jr., Roscoe, Mo. Chinch-bug destroyer	Mar. 23, 1875	798	262	7	484
6, 595	Cochran, John, Purdy's Station, N. Y. Coal-hod	Aug. 17, 1875	646	201	8	308
158, 909	Cochran, William J., Baltimore, Md. Car-wheel	Jan. 12, 1875	304	103	7	67
158, 910	Same. same	Feb. 9, 1875	376	125	7	244
162, 231	Cochrane, Charles, Grange, Stourbridge, and Edward A. Cowper, Westminster, England. Regenerative hot-blast stove	Sept. 4, 1875	247	77	8	448
162, 231	Cochrane, Edmond W. (See Sawyer, Joshua, assignor.)					
162, 231	Cochrane, William F., La Fayette, Ind., assignor, by mesne assignments, to self, Rodney Mason, and William Warder. Machine for bolting flour (Reissue)	Aug. 17, 1875	704	219	8	316
162, 231	Same. same (Reissue)	Aug. 17, 1875	706	219	8	316
162, 231	Cochrane, William F., La Fayette, Ind. Hemp-harvester	Jan. 19, 1875	538	179	7	113
162, 231	Same. Mowing-machine	Jan. 19, 1875	539	179	7	113
162, 231	Cockburn, George T. (See Cushman & Cockburn.)					
162, 231	Codd, George S. (See Converse, Henry M., assignor.)					
162, 231	Codding, Charles A., Dowagiac, Mich. Eave-trough	Sept. 28, 1875	813	258	8	544
162, 231	Codington, Ezra, et al. (See Edwards, George W., assignor.)					
162, 231	Codman, John T., Boston, Mass. Dental mallet	Apr. 20, 1875	522	172	7	658
162, 231	Same. Furniture-caster	June 29, 1875	1090	351	7	1111
162, 231	Cody, John, New York, N. Y. Snow-melting machine	Dec. 28, 1875	931	305	8	1099
162, 231	Coe, Edward, New Haven, Conn. Automatically-operated gas-cock	June 8, 1875	291	99	7	981
162, 231	Coe, Frederick W. (See Field, Austin W., assignor.)					
162, 231	Coe, Ira, Quincy, Ill. Fruit-gatherer	Nov. 16, 1875	723	230	8	845
162, 231	Coe, James F., Zaleski, Ohio. Churn	Sept. 7, 1875	102	32	8	421
162, 231	Coe, John W., and Daniel Merritt, Williamsburgh, N. Y. Side-bar for vehicles	Feb. 2, 1875	53	29	7	192
162, 231	Coe, Julius S., Mont Clair, N. J. Bee-hive	Jan. 26, 1875	722	239	7	145
162, 231	Coe, J. W., et al. (See Olsson, Axel, assignor.)					
162, 231	Coes, Aury G., Worcester, Mass. Die for forming wrench-bars, &c.	Sept. 21, 1875	424	135	8	482
162, 231	Coes, John H., Worcester, Mass. Screw-wrench	Dec. 28, 1875	882	289	8	1092
162, 231	Coes, Loring. (See Prouty, Coes & Taft.)					
162, 231	Coevoet, Julien H., Calais, France. Machine for the manufacture of nets	Nov. 2, 1875	179	60	8	759
162, 231	Coffin, David N. B., jr., Newton, Mass. Windlass and capstan	Sept. 28, 1875	735	132 133	8	533
162, 231	Coffin, Galen. (See Gillespie & Coffin.)					
162, 231	Coffin, George S. (See Coffin & Klotz, assignors.)					
162, 231	Coffin, James H., and Phaon S. Klotz, Slatington, assignors of one-third interest to George S. Coffin, Danielsville, Pa. Slate-polisher	Sept. 21, 1875	472	149	8	488
162, 231	Coffin, John E. (See Colby & Coffin.)					
162, 231	Coffin, John E., Portland, Me. Machine for rounding and backing books	Jan. 12, 1875	305	104	7	67
162, 231	Coffin, John E., Mystic River, Conn. Power-press	July 6, 1875	147	45	8	29
162, 231	Same. Book-backing machine	Dec. 21, 1875	693	228 229	8	1058

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168, 878	Coffin, John E., Mystic River, assignor of one-half interest to L. W. Morse, jr., Groton, Conn. Machine for driving tacks.....	Oct. 19, 1875	539	177	8	657
	Coffman, William H. (See Croy, William D. and David M., assignors.)					
164, 268	Cogan, Bernard. (See Cunningham, Patrick, assignor.)					
	Cogger, William B., Morris, assignor to Sherwood School Furniture Company, Chicago, Ill. Hinge for seat-arms of school-desks.....	June 8, 1875	408	136	7	996
159, 501	Coggin, F. G., et al. (See Woodbury, Leander S., assignor.)	Feb. 9, 1875	258	84	7	228
163, 578	Cogswell, Thomas, Boston, Mass. Cabinet for dentists' use.....	May 25, 1875	828	262	7	886
170, 057	Same.....Dental mirror.....					
	Cogswell, Thomas, Boston, Mass., assignor to Samuel S. White, Philadelphia, Pa. Tool-carrier for dental engines.....	Nov. 16, 1875	724	230	8	845
	Cogswell, William A. (See Judson & Cogswell.)					
167, 638	Cohen, Gustavus M., and Gregor Dietz, Cleveland, Ohio. Music-leaf turner.....	May 25, 1875	884	279	7	893
167, 645	Cohen, Louis P., and Ignatz Frank, New York, N. Y. Machine for cutting roll-paper..	Sept. 14, 1875	248	77	8	448
	Cohn, Leopold. (See Ballard, Achilles, assignor.).....(Reissue.)					
161, 756	Cohn, Leopold S., Berlin, Wis. Farm-gate.....	Apr. 6, 1875	143	50	7	589
153, 792	Same.....Gate.....	July 20, 1875	649	199	8	122
166, 188	Cohne, Sigismund, London, Great Britain. Process for the manufacture of material for bearings.....	Aug. 3, 1875	7		8	200
8, 358	Coignet, Joseph, assignor to Hamil & Booth, New York, N. Y. Silk fabric.....(Design)	June 1, 1875			7	926
8, 584	Same.....same.....(Design)	Aug. 31, 1875			8	364
	Coit, Samuel, et al. (See Sampson, William S., assignor.)					
159, 248	Coit, William D., New York, N. Y. Traveling-trunk.....	Feb. 2, 1875	7	2	7	185
168, 879	Colbert, Lewin A., Baltimore, Md. Folding wardrobe.....	Oct. 19, 1875	541	177	8	657
	Colbert, Mason. (See Post & Colbert.)					
162, 352	Colbock, David, Philadelphia, Pa. Paper-feeding machine.....	Apr. 20, 1875	705	229	7	681
	Colburn, George F. J., Washington, D. C. Evaporator for hot-air pipe.....(Extension)	Jan. 21, 1875			7	222
170, 990	Same.....Evaporator.....	Dec. 14, 1875	322	106	8	1000
	Colburn, George W., et al. (See Dorr, Warren, assignor.)					
	Colby Adjustable Hemmer Company. (See Colby, Asa F., assignor.)					
159, 391	Colby, Asa F., Bath, Me., assignor to Colby Adjustable Hemmer Company, Bath, Me. Hemmer for sewing-machines.....	Feb. 2, 1875	133	46	7	203
6, 585	Colby, Caleb K., New York, N. Y. Design for cases.....(Reissue)	Aug. 10, 1875	472	145	8	273
162, 272	Colby, John A., Springfield, Mass. Door-latch.....	Apr. 20, 1875	632	206	7	672
167, 070	Colby, John N., and John E. Coffin, Mystic Bridge, Conn. Combined cane and umbrella	Aug. 24, 1875	869	271	8	347
162, 126	Coldwell, Thomas, Newburgh, N. Y. Lawn-mower.....	Apr. 27, 1875	975	313	7	723
166, 968	Cole, Emanuel, New York, N. Y. Chimney-cowl.....	Aug. 24, 1875	773	238	8	334
160, 878	Cole, Frederick, and David D. L. McCulloch, Kankakee, Ill. Lime-kiln.....	Mar. 16, 1875	589	192	7	447
167, 071	Cole, Gideon W., Canton, Ill. Washing-machine.....	Aug. 24, 1875	870	281	8	347
170, 058	Cole, John A., Chicago, Ill. Pipe-coupling.....	Nov. 16, 1875	725	231	8	845
165, 793	Cole, Mortimer G., Bexley Heath, assignor to James Hoddell & Co., Coventry, England. Watch.....	July 20, 1875	650	199	8	122
171, 506	Cole, Otis F., Norwich, Conn. Extracting shells from revolving fire-arms.....	Dec. 28, 1875	845	277	8	1086
169, 623	Cole, Thomas A., Trafalgar, Ind. Wheel-harrow.....	Nov. 9, 1875	298	96	8	782
166, 852	Cole, Thomas Z., assignor of one-fourth interest to John E. Walton, Galveston, Tex. Excavator.....	Aug. 17, 1875	647	201	8	308
	Coleman Bolt and Nut Company, M. J. (See Hartin & Cummings, assignors.)					
168, 721	Coleman, Cornelius, assignor to Parker & Whipple Company, West Meriden, Conn. Door-bell.....	Oct. 11, 1875	389	127	8	627
169, 421	Same.....Attaching knobs to spindles.....	Nov. 2, 1875	92	28	8	747
165, 794	Coleman, Francis W., Rodney, Miss. Key holder.....	July 20, 1875	651	200	8	122
	Coleman, Hiram. (See Savage & Coleman.)					
164, 718	Coleman, Joshua R., and Samuel Myers. Machine for tenoning spokes.....	June 22, 1875	840	273	7	1072
160, 161	Colgrove, Austin E., assignor of one-half interest to Eliza Young, Attica, Ind. Pot-lid..	Feb. 23, 1875	889	293	7	327
6, 759	Coll, Hugh, Millvale, Pa. Water-ejector.....(Reissue)	Nov. 23, 1875	1096	345	8	903
	Collard, Georgianna D. (See Stackpole, Greenleaf, assignor.)					
	Same.....same.....(Reissue.)					
6, 469	Collender, Hugh W., New York, N. Y. Billiard-table.....(Reissue)	June 1, 1875	212	75	7	959
167, 501	Same.....Billiard-table cushion.....	Sept. 7, 1875	103	31	8	421
170, 059	Same.....Billiard-table.....	Nov. 16, 1875	726	231	8	845
162, 901	Collett, Eustace J., Washington, D. C. Cartridge.....	May 4, 1875	151	49	7	767
163, 745	Colley, Benjamin E., Cambridge, Mass. Upright piano-forte.....	May 25, 1875	973	308	7	905
164, 523	Colley, William W., Philadelphia, Pa. Railway-switch.....	June 15, 1875	655	211	7	1037
165, 795	Same.....Railway-switch signal.....	July 20, 1875	652	200	8	123
161, 593	Collier, Orrin, Sacramento, Cal. Boot-clamp for boot-jacks.....	Apr. 6, 1875	6	2	7	569
167, 435	Same.....Spring-power regulator.....	Sept. 7, 1875	51	15	8	413
161, 933	Collier, William F., Worcester, Mass. Table-caster.....	Apr. 13, 1875	316	106	7	625
166, 346	Same.....Wire dish-stand.....	Aug. 3, 1875	146	45	8	220
159, 392	Collins, Charles A., Akron, Ohio. Side-bar wagon.....	Feb. 2, 1875	134	46	7	203
168, 140	Collins, Cornelius, and James H. McCalla, East Melrose, Iowa. Artificial leg.....	Sept. 28, 1875	738	133	8	533
165, 408	Collins, David M., Lowell, Mass. Loom picking mechanism.....	July 13, 1875	278	82	8	53
162, 799	Collins, George, Kingfield, Me. Saw-buck.....	May 4, 1875	60	19	7	755
168, 453	Collins, Giles H., Kalamazoo, Mich. Bell-ringer.....	Oct. 5, 1875	117	40	8	552
	Collins, Isaac S. (See Smith & Collins.)					
166, 503	Collins, James F., Washington, D. C. Sash-cord fastener.....	Aug. 10, 1875	317	96	8	251
163, 850	Collins, James P., Norwich, Conn. Water-wheel.....	June 1, 1875	14	4	7	932
159, 563	Collins, John W., Chicago, Ill. End-gate fastening.....	Feb. 9, 1875	316	103	7	235
165, 983	Same.....Stove-grate.....	July 27, 1875	850	262	8	161
163, 153	Collins, M. Grier, assignor of two-thirds interest to James C. Pickels and William P. Smith, Wilmington, Del. Pinch-bar.....	May 11, 1875	405	130	7	807
	Collins, Thomas. (See Crowther & Collins.)					
159, 018	Collins, Tyrannus F., Boston, Mass. Paper-rolling machine.....	Jan. 26, 1875	668	218	7	137
164, 676	Collins, Victor N., Nordhoff, Cal. Finger-bar for harvesters.....	June 22, 1875	798	261	7	1066
169, 960	Collinson, Henry, Boston, Mass. Lid for gas-retorts.....	Nov. 16, 1875	641	200	8	833
161, 934	Collinson, Henry, assignor of one-half interest to Josiah B. Kendall, Boston, Mass. Man-hole-cover for steam-boilers.....	Apr. 13, 1875	317	106	7	625
162, 998	Collison, Henry C., Dover, Del. Dripping-stand for vessels.....	May 11, 1875	262	85	7	789
164, 363	Collyer, Charles W., Marblehead, Mass. Machine for attaching soles to boots and shoes.	June 15, 1875	510	168	7	1019
	Colman, John B. (See Parker & Colman.)					
170, 236	Colman, Nicholas J., San Francisco, Cal. Tappet-clamp for stamp-stems.....	Nov. 23, 1875	918	286	8	878
	Colt, William D. (See Hopkins, Jason R., assignor.)					
	Colton, Franklin B. (See Allen, James M., assignor.)					
168, 376	Colton, Joseph, New Orleans, La. Safety-pocket.....	Oct. 5, 1875	51	18	8	572
	Colt's Patent Fire-Arms Manufacturing Company. (See Franklin, William B., assignor.)					
	Same.....(See Mason, William, assignor.)					

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162, 273	Colver, Amos B., Albany, Oreg. Cultivator.....	Apr. 20, 1875	633	206	7	672
159, 303	Colver, Hiram W., Waukesha, Wis. Stamping-mill.....	Feb. 2, 1875	53	20	7	192
	Colvin and Company, S. (See Remington, Horatio A., assignor.)					
170, 237	Colvin, Orson, Vicksburgh, assignor, by mesne assignment, of one-half interest to John L. Hawkins, Portage, Mich. Bee-hive.....	Nov. 23, 1875	919	286	8	878
162, 800	Colwell, Myron W., Dunlap, Iowa. Fence-post.....	May 4, 1875	61	20	7	755
	Colwell, Robert. (See Shoots, James D., assignor.)					
166, 593	Colwell, William, Chillicothe, Ill. Grain-meter.....	Aug. 10, 1875	391	121	8	262
	Colwell, William S. (See Weaver & Colwell.)					
166, 749	Colwell, William S., Pittsburgh, Pa. Furnace for brick-kilns.....	Aug. 17, 1875	555	170	8	294
167, 826	Same.....	Sept. 21, 1875	425	135	8	482
168, 617	Same.....	Oct. 11, 1875	298	97	8	614
168, 454	Coman, William E., Oak Park, Ill. Earth-auger.....	Oct. 5, 1875	118	41	8	552
164, 076	Combs, Hiram S., Georgetown, Conn., and William Rhodes, New York, N. Y. Mechanical movement.....	June 8, 1875	232	81	7	973
161, 387	Combs, John H., Stamford, Conn. Thill-coupling jack.....	Mar. 30, 1875	1088	353	7	529
	Combs, Philip. (See Mills, James, assignor.)					
	Combs, Richard T. (See Von Auer, William, assignor.)					
164, 364	Combs, William, Geneva, N. Y. Washing-machine.....	June 15, 1875	512	168	7	1019
167, 989	Comfort, Orrin F., Evansville, Wis. Door-spring.....	Sept. 21, 1875	556	179	8	502
161, 206	Comly, James, assignor to Feigl, Stubb & Co., Philadelphia, Pa. Bird-cage hook.....	Mar. 23, 1875	890	252	7	496
166, 504	Comly, Joshua, Philadelphia, Pa. Stone-crusher.....	Aug. 10, 1875	318	96	8	252
158, 783	Commerce, Mathias, Jersey City, N. J. Washing-machine.....	Jan. 19, 1875	417	140	7	98
	Compressing Company. (See Baldwin, Augustine, assignor.)					
167, 502	Compton, George. (See Witter, Henry M., assignor.)					
	Comstock, Austin M., Battle Creek, Mich. Flour and middlings purifier.....	Sept. 7, 1875	104	33	8	421
	Comstock, Castle & Co. (See Castle, Chauncey H., assignor.)					
	Same..... (See Shontz, Absalom S., assignor.)					
	Same..... (See Vedder, Nicholas S., assignor.) (Design.)					
159, 155	Comstock, Chester, New Canaan, Conn. Steam-heat radiator.....	Jan. 26, 1875	785	258	7	154
166, 189	Comstock, George R., Mankato, Minn. Meat-tenderer.....	Aug. 3, 1875	7	3	8	200
158, 572	Comstock, Gilbert, Keokuk, Iowa. Heating-stove.....	Jan. 12, 1875	210	71, 72	7	54
168, 084	Same..... Cooking-stove.....	Sept. 28, 1875	679	215	8	526
	Comstock, John M. (See Dempster, Robert, assignor.)					
159, 797	Comstock, Levi R., Richmond, Va. Stove.....	Feb. 16, 1875	544	181	7	272
166, 261	Conant, Henry B., Geneva Lake, Wis. Dust-brush.....	Aug. 3, 1875	69	22	8	209
169, 422	Conant, Hezekiah, Pawtucket, R. I. Automatic sprinkler for extinguishing fires.....	Nov. 2, 1875	93	29	8	747
169, 893	Conant, Luther, Geneva, Ill. Copy-holder.....	Nov. 16, 1875	586	182	8	826
168, 880	Conaway, John H., Nelsonville, Ohio. Washing-machine.....	Oct. 19, 1875	541	177	8	657
159, 798	Conboy, Daniel, Uxbridge, Canada. Carriage-seat.....	Feb. 16, 1875	545	181	7	272
160, 879	Conde, Alonzo B., Trumansburgh, N. Y. Manufacture of snap-hooks.....	Mar. 16, 1875	590	192	7	447
161, 483	Same..... Lever attachment for mowing-machines.....	Mar. 30, 1875	1177	378	7	540
	Condit, A. S., et al. (See Veber, William F., assignor.)					
	Condit, H. G., et al. (See Veber, William F., assignor.)					
165, 545	Condon, John W., Baltimore, Md. Ice-cream freezer.....	July 13, 1875	409	122	8	73
158, 680	Cone, Alfred M., assignor to self and L. D. Parsons, Corry, Pa. Bandage-winder.....	Jan. 12, 1875	308	105	7	67
8, 070	Cone, Henry D., Stockbridge, Mass. Writing-paper..... (Case A. Design)	Feb. 23, 1875			7	302
8, 071	Same..... (Case B. Design)	Feb. 23, 1875			7	302
8, 452	Same..... (Design)	July 6, 1875			8	4
161, 100	Conger, David G., New York, N. Y. Composition pavement.....	Mar. 23, 1875	799		7	484
159, 799	Conigisky, Louis, Peoria, Ill. Bustle.....	Feb. 16, 1875	546	182	7	272
6, 797	Conklin, Benjamin Y., Brooklyn, N. Y. Black-board and other rubbers..... (Reissue)	Dec. 14, 1875	537	177	8	1029
	Conklin, Eliza S., executrix. (See Stafford, Daniel S.) (Disclaimer.)					
	Same..... (See Stafford, Daniel S.) (Extension.)					
162, 801	Conklin, George, Poughkeepsie, N. Y. Grapple.....	May 4, 1875	61	20	7	755
158, 911	Conklin, Henry N., Indianapolis, Ind. Boot-jack.....	Jan. 19, 1875	541	180	7	113
160, 006	Conklin, Ira P., assignor to William B. Kinsey, Philadelphia, Pa. Combined poker and tongs.....	Feb. 23, 1875	756	250	7	308
	Conklin, W. A., et al. (See Ebbert, Jerry, assignor.)					
	Same..... (See Schroeffel, John, jr., assignor.)					
164, 427	Conlee, George W., assignor of one-third interest to Hiram H. Dyer, Oshkosh, Wis. Relishing-machine.....	June 15, 1875	575	186	7	1027
164, 526	Conlee, George W., assignor of one-third interest to Hiram M. Dyer, of Oshkosh, Wis. Machine for making wooden pins.....	June 15, 1875	657	212	7	1038
165, 307	Conley, Edward, Cincinnati, Ohio. Process of bleaching jute for paper-pulp.....	July 6, 1875	148		8	29
	Conley, Francis M. (See Jincks, Melvin, assignor.)					
	Conley, Samuel J., et al. (See Andrews, Edwin F., assignor.)					
160, 164	Conn, Charles G., Elkhart, Ind. Mouth piece for musical instruments.....	Feb. 23, 1875	889	293	7	327
158, 912	Connell, James M., Newark, Ohio, assignor of one-half interest to Reuben M. Weaver, Williamsport, Pa. Air and steam car-brake.....	Jan. 19, 1875	541	180	7	114
169, 675	Connell, John P., Kensington, Conn. Door-bell.....	Nov. 9, 1875	353	111	8	789
161, 388	Connolly, Joseph H., New Brighton, Pa. Apparatus for extinguishing fire.....	Mar. 30, 1875	1088	353	7	529
170, 060	Connolly, Joseph H., New Brighton, assignor to James L. and William H. Hastings, Pittsburgh, Pa. Fire-extinguishing apparatus.....	Nov. 16, 1875	728	231	8	845
170, 820	Same.....	Dec. 7, 1875	149	50	8	970
	Conner, Andrew J. (See Cawthon & Conner.)					
8, 313	Conner, James M., Greenville, N. J. Font of printing-types..... (Design)	May 4, 1875			7	742
8, 317	Same..... (Design)	May 11, 1875			7	782
8, 419	Same..... (Design)	June 22, 1875			7	1057
8, 714	Conner, James M., Greenville, N. J. Printing-type..... (Design)	Oct. 11, 1875			8	600
163, 746	Conner, John D., and Louis Fritz, Philadelphia, Pa. Car-coupling.....	May 25, 1875	974	308	7	905
163, 461	Conner, William M., and Wilford I. Rouse, Burlington, Ky. Hay-conveyor.....	May 18, 1875	701	224	7	862
164, 525	Connery, Thomas B., assignor to James G. Bennett, New York, N. Y. Target.....	June 15, 1875	656	212	7	1038
	Connet, Andrew T. (See Swallow, William B., assignor.)					
8, 302	Connolly, M. Daniel, Philadelphia, Pa. Drinking-vessel..... (Design)	Apr. 27, 1875			7	701
158, 629	Connor, Benjamin H., Cincinnati, Ohio. Machine for turning irregular forms.....	Jan. 12, 1875	259	88	7	61
160, 880	Connor, David, Meriden, assignor to Eli Whitney, New Haven, Conn. Breech-loading fire-arm.....	Mar. 16, 1875	591	192	7	447
167, 744	Connor, Herbert N., Philadelphia, Pa. Sash-cord fastener.....	Sept. 14, 1875	332	106	8	460
170, 238	Connor, John O., Buffalo, N. Y. Hydrant.....	Nov. 23, 1875	921	287	8	878
166, 218	Connor, William O., assignor of one-half interest to George B. Cornell, Chicago, Ill. Window-shutter.....	Aug. 3, 1875	31	10	8	203
170, 819	Conolly, Joseph B., Washington, D. C. Cuspadore.....	Dec. 7, 1875	149	49	8	970
164, 809	Conolly, Peter M., Saint Louis, Mo. Pneumatic engine.....	June 22, 1875	923	299	7	1082
6, 541	Conover, Jacob A., New York, N. Y. Machine for splitting wood..... (Reissue)	July 13, 1875	515	157	8	88

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167, 388	Conover, Stephen B., Jersey City, N. J. Wagon-seat.....	Sept. 7, 1875	8	3	8	108
170, 991	Same..... Paper box.....	Dec. 14, 1875	323	107	8	1001
	Conrad, John H. (See Bell & Conrad.)					
	Conrad, Osborn. (See Minich, Daniel, assignor.)					
158, 573	Conradson, Eugene G., and Albin Forsell, Brooklyn, N. Y. Sponge-holder.....	Jan. 12, 1875	211	72	7	54
	Consolidated Tobacco Company. (See Culp, James D., assignor)..... (Reissue.)					
	Consolidated Wax Thread Sewing Machine Company. (See Bean, Edwin E., assignor.)					
164, 147	Conver, William H., Agnew's Mills, Pa. Pump.....	June 8, 1875	292	100	7	981
	Convers, A. Y. (See Hebdon, William, assignor.)					
168, 141	Convers, Wilber H., New Orleans, La., assignor to Harry C. Goodrich, Chicago, Ill. Ruffling attachment for sewing-machines.....	Sept. 28, 1875	739	133	8	534
	Converse, B. C. (See Woliston, Philip N., assignor.)					
	Converse, E. K., et al. (See Bell, A. John, assignor)..... (Reissue.)					
171, 352	Converse, Henry, Sandusky, Ohio. Shirt-front.....	Dec. 21, 1875	682	225	8	1056
164, 524	Converse, Henry M., assignor of one-half interest to George S. Codd, Waterloo, Canada. Curtain-fixture.....	June 15, 1875	655	212	7	1033
	Converse, Lyman P., et al. (See Reed, William H., assignor.)					
162, 274	Converse, Maschil D., Jersey City, N. J. Nail-extractor.....	Apr. 20, 1875	634	206	7	672
166, 190	Converse, Susan T., Woburn, Mass. Under-clothing for women.....	Aug. 3, 1875	9	3	8	200
167, 436	Same..... Under-garment.....	Sept. 7, 1875	52	16	8	413
160, 751	Conway, Frederick, Buffalo, N. Y. Harness-clip.....	Mar. 16, 1875	477	156	7	432
171, 353	Conway, Jesse, Baltimore, Md. Wrench-nut.....	Dec. 21, 1875	683	225	8	1056
167, 387	Cook, Andrew J., Wichita, Kans., assignor of one-fourth interest to Ralph Emerson and William A. Talcott, Rockford, Ill. Harvester.....	Sept. 7, 1875	6	2	8	407
166, 454	Cook, Anson G., Burlington, Vt. Manufacture of iron and steel.....	Aug. 10, 1875	278		8	246
165, 546	Cook, Asa B., Erie, Pa. Shaft-coupling.....	July 13, 1875	410	123	8	73
167, 827	Cook, Carter, and Walter W. Bostwick, assignors to W. W. Bostwick & Co. Cincinnati, Ohio. Fruit and jelly press.....	Sept. 21, 1875	426	136	8	482
169, 676	Cook, Dexter, Elmira, N. Y. Water regulator and indicator for steam-boilers.....	Nov. 9, 1875	353	112	8	789
163, 462	Cook, E. Rezeau, Trenton, N. J. Railway-ticket.....	May 18, 1875	702	224	7	862
	Cook, Henry E. (See Williams, Cook & Kline.)					
164, 269	Cook, Hezekiah S., Albany, N. Y. Stove attachment.....	June 8, 1875	409	137	7	996
162, 460	Cook, Hiram, Norwich, Conn. Railway-switch.....	Apr. 27, 1875	834	269	7	703
170, 937	Cook, Horatio G., and Ezekiel W. Barker, Portland, Me. Screw-propeller.....	Dec. 14, 1875	267	89	8	993
164, 527	Cook, Isaac, assignor of one-third interest to Jacob R. Sprague, Saint Louis, Mo. Gas-burner.....	June 15, 1875	657	212	7	1038
164, 528	Cook, Isaac, assignor of one-half interest to Jacob R. Sprague, Saint Louis, Mo. Gas-burner.....	June 15, 1875	658	213	7	1038
166, 675	Cook, James, and William Fosket, Meriden, Conn.; said Fosket assignor to said Cook. Printing-press.....	Aug. 10, 1875	465	143	8	273
168, 232	Cook, James B., and James W. Heath, Memphis, Tenn. Construction of prisons.....	Sept. 28, 1875	814	258 } 259 }	8 } 8 }	544
168, 455	Same..... same.....	Oct. 5, 1875	119	41	8	552
168, 971	Same..... Alarm for prisons, &c.....	Oct. 19, 1875	627	208	8	670
	Cook, Jesse M., et al. (See Wright, Joseph C., assignor.)					
168, 881	Cook, John, Harlem, Ohio. Windmill.....	Oct. 19, 1875	542	178	8	657
165, 065	Cook, John F., assignor to George Page & Co., Baltimore, Md. Head-block.....	June 29, 1875	1169	376	7	1122
163, 976	Cook, Joseph C., New York, assignor to William H. Roe, Flushing, N. Y. Smoking-tube.....	June 1, 1875	113	38	7	946
161, 328	Cook, Joseph H., assignor of one-half interest to John B. Moury, Mercer, Pa. Combined washing and wringing machine.....	Mar. 30, 1875	1030	335	7	522
168, 618	Cook, Leeds A., Dansville, N. Y. Hanger for sliding doors.....	Oct. 11, 1875	299	97	8	614
	Cook, Lyman A., et al. (See Young, Solomon W., assignor)..... (Reissue.)					
162, 532	Cook, Michael, West Leroy, Mich. Pump.....	Apr. 27, 1875	900	287	7	713
162, 802	Cook, Oliver, Darien, Conn. Light-house lantern.....	May 4, 1875	62	20	7	755
164, 077	Cook, Peter, Detroit, Mich. Machine for cutting hoops.....	June 8, 1875	233	81	7	974
	Cook, Richard C. (See Eynon & Cook.)					
163, 154	Cook, Roswell F., Potsdam, N. Y. Ball-cartridge.....	May 11, 1875	406	130	7	807
6, 768	Cook, Silas, Magnolia, assignor, by mesne assignments, to Automatic Boiler Feeder Company, Dubuque, Iowa. Automatic boiler-feeder..... (Reissue.)	Nov. 30, 1875	1316	416	8	941
171, 100	Cook, Silas, Magnolia, Iowa, assignor to Automatic Boiler Feeder Manufacturing Company, Saint Louis, Mo. Automatic boiler-feeder.....	Dec. 14, 1875	420	139 } 140 }	8 } 8 }	1014
166, 343	Cook, Thomas, London, England. Complex coupon railway-ticket.....	Aug. 3, 1875	144	44	8	220
161, 865	Cook, Thomas, Sing Sing, assignor to J. R. Dos Passos and Zachariah E. Simmons, New York, N. Y. Heater and drier.....	Apr. 13, 1875	251	84	7	616
161, 866	Same..... Machine for manufacturing blocks of artificial stone.....	Apr. 13, 1875	252	84	7	616
161, 867	Same..... Press for forming concrete paving and building blocks.....	Apr. 13, 1875	254	85	7	617
171, 267	Cook, Thomas, New York, N. Y., assignor of one-half interest to James E. Nuttmann; said Cook and Nuttmann assignors to Union Ice Company. Ice-machine.....	Dec. 21, 1875	610	200	8	1047
162, 155	Cook, Thomas S., Cleveland, Ohio. Roll for rounding and smoothing metallic rods and bars.....	Apr. 20, 1875	523	172	7	658
169, 523	Cook, William H., Meridian, Miss. Fertilizer-distributor.....	Nov. 2, 1875	180	60	8	759
	Cooke, Augustus. (See Hopkins & Cooke.)					
	Cooke, Augustus. (See Vander Waag, Johannes A., assignor)..... (Reissue.)					
169, 961	Cooksey, William H., Washington, D. C. Dumping-wagon.....	Nov. 16, 1875	642	200 } 201 }	8 } 8 }	833
	Cool, Keyes P., et al. (See Rhind, Frank, assignor.)					
171, 354	Cooley, Orville, assignor to Johnston Harvester Company, Brockport, N. Y. Belt-tightener.....	Dec. 21, 1875	684	225	8	1056
	Coolidge, Edwin C., et al. (See Hill, Nathan H., assignor.)					
	Coolidge, John K., et al. (See Hill, Nathan H., assignor.)					
159, 904	Coombe, John, San José, Cal. Eyeletting-machine.....	Feb. 16, 1875	642	212	7	285
166, 589	Coombs, John C., Boston, Mass. Shirt-bosom.....	Aug. 10, 1875	387	120	8	262
164, 428	Coon, James H., Des Moines, Iowa. Rotary cultivator.....	June 15, 1875	576	186	7	1027
158, 681	Coon, Philip, Canton, N. Y. Machine for tapering spokes.....	Jan. 12, 1875	308	105	7	67
159, 304	Coonley, John C., Chicago, Ill. Cast hook.....	Feb. 2, 1875	54	20	7	192
163, 463	Cooper, Arthur W., and John Sutcliffe, Chicago, Ill. Pipe-coupling.....	May 18, 1875	703	224	7	863
163, 362	Cooper, Charles B., Nashville, Tenn. Water-filter.....	May 18, 1875	617	197	7	851
	Cooper, Charles E., et al. (See Cooper, William, assignor.)					
165, 308	Cooper, David M., Georgetown, D. C. Stamp-canceler.....	July 6, 1875	149	45	8	29
166, 685	Cooper, Edward A., Lancaster, N. Y. Trace-carrier for harness.....	Aug. 17, 1875	495	151	8	286
167, 646	Cooper, Edward A., Lancaster, assignor of one-half interest to Josiah Letchworth and William P. Darling, Buffalo, N. Y. Carriage-step.....	Sept. 14, 1875	249	77	8	448
168, 831	Cooper, Edward A., Lancaster, assignor of one-half interest to Josiah Letchworth, Buffalo, N. Y. Vehicle-seat.....	Oct. 19, 1875	500	163	8	651

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31, 153	Cooper, George, New Bedford, Mass. Needle..... (Extension)...	Jan. 21, 1875			7	222
	Cooper, George, Thompsonville, Conn. Needle..... (Disclaimer filed)...	Jan. 16, 1875			7	222
	Cooper, James C., et al. (See Cooper, William, assignor.)					
168, 377	Cooper, James F., Syracuse, Ohio. Combined knob, latch, and lock.....	Oct. 5, 1875	52	19	8	572
160, 307	Cooper, James F., and William W. Hiatt, Frankton, Ind. Hog-trap.....	Mar. 2, 1875	43	16	7	355
164, 674	Cooper, Jennett, San Francisco, Cal. Medical compound.....	June 22, 1875	797		7	1066
	Cooper, John. (See Holmes, Isaac V., assignor.)..... (Reissue.)					
	Cooper, Joseph B., et al. (See Rohrer, John B., assignor.)..... (Design.)					
	Cooper, Samuel, et al. (See Rohrer, John B., assignor.)..... (Design.)					
6, 700	Cooper, William, Ypsilanti, Mich. Chain-pump..... (Reissue.)	Oct. 19, 1875	725	239	8	682
160, 165	Same..... Steam-generator for cooking, &c.....	Feb. 23, 1875	890	293	7	327
162, 033	Same..... Steam cooking and washing apparatus.....	Apr. 13, 1875	392	132	7	635
162, 034	Same..... Flat-iron heater.....	Apr. 13, 1875	393	133	7	635
167, 990	Cooper, William, assignor of two-thirds interest to Charles E. and James C. Cooper, Ypsilanti, Mich. Chain-pump bucket.....	Sept. 21, 1875	557	179	8	502
164, 909	Cope, Emmor B., West Chester, Pa. Water-wheel.....	June 29, 1875	1036	334	7	1104
170, 938	Cope, Ezra, and James R. Maxwell, Hamilton, Ohio. Steam-pumping engine.....	Dec. 14, 1875	267	89, 90	8	994
170, 939	Same..... Steam valve.....	Dec. 14, 1875	270	90, 91	8	994
166, 915	Copeland, David, jr., Rochester, N. Y. Lawn-roller.....	Aug. 24, 1875	721	224	8	327
166, 916	Same..... Cement sewer-trap and mold therefor.....	Aug. 24, 1875	722	224	8	327
158, 682	Copeland, George W., Malden, Mass. Lasting boots and shoes.....	Jan. 12, 1875	309	105	7	67
158, 683	Copeland, Marcus D., assignor to Susan A. Copeland, Providence, R. I. Bale-tie.....	Jan. 12, 1875	310	105	7	67
	Copeland, Susan A. (See Copeland, Marcus D., assignor.)					
8, 442	Copeland, Thomas H., assignor to Onondaga Pottery Company, Geddes, N. Y. Dish of pottery-ware..... (Design.)	June 29, 1875			7	1098
164, 810	Corbett, Adolphe, Hicksville, N. Y. Incubator.....	June 22, 1875	925	299	7	1082
165, 547	Same..... Lance for propelling sleighs.....	July 13, 1875	411	123	8	73
167, 225	Corbett, Thomas M., and Henry Campbell, Milwaukee, Wis.; said Campbell assignor to said Corbett. Governor for steam-engines.....	Aug. 31, 1875	1034	321	8	377
	Corbin, F., et al. (See Arnold, Stephen D., assignor.)					
	Same..... (See Munger, Wallace T., assignor.)					
166, 505	Corbin, Frank, assignor to P. and F. Corbin, New Britain, Conn. Lock for sliding doors.....	Aug. 10, 1875	319	96	8	252
	Corbin, P. and F. (See Corbin, Frank, assignor.)					
	Same..... (See Fracker, Francis T., assignor.)..... (Design.)					
	Corbin, P., et al. (See Arnold, Stephen D., assignor.)					
	Same..... (See Munger, Wallace T., assignor.)					
160, 395	Corcoran, Martin, et al. (See Ludwig, John C., assignor.)					
168, 378	Cor esman, Henry J., jr., assignor to James P. Alley, Cincinnati, Ohio. Saw-gummer.....	Mar. 2, 1875	121	44	7	366
	Core, William T., Norfolk, Va. Extension-ladder.....	Oct. 5, 1875	53	19	8	572
163, 464	Coreth, Rudolph, West Belleville, Ill. Plow-carriage.....	May 18, 1875	704	{ 224 225 }	7	863
160, 881	Corey, Aaron L., Ypsilanti, Mich. Chain-pump bucket.....	Mar. 16, 1875	592	192	7	447
159, 156	Corey, Alfred B., Providence, R. I. Steam-distributor for furnaces.....	Jan. 26, 1875	786	258	7	154
169, 524	Corey, Barney J., and Elijah Neff, Rochester, Ind. Vehicle-spring.....	Nov. 2, 1875	181	60	8	759
162, 456	Corey, George W., New York, N. Y. Curtain-fixture.....	Oct. 5, 1875	120	42	8	552
159, 019	Corey, James H., New York, N. Y. Steam-valve.....	Jan. 26, 1875	669	218	7	137
	Corey, John S. (See Holden & Corey.)					
	Corey, Thomas, trustee. (See Dunbrack & Vesey, assignors.)					
	Same..... (See Dunbrack, Charles S., assignor.)					
166, 853	Corfman, Levi, Findlay, Ohio. Medical composition.....	Aug. 17, 1875	648		8	308
163, 579	Corman, Charles A., Wayland, Mass. Punching-machine.....	May 25, 1875	829	262	7	886
	Cornelius, Peter W. (See Wessar & Cornelius.)					
170, 992	Cornelius, Wilbur F., assignor of one-half interest to Philip F. Davis, Muncie, Ind. Windmill.....	Dec. 14, 1875	324	107	8	1001
	Cornell & Shelton. (See Shelton, Edward D., assignor.)					
	Cornell, George B. (See Connor, William O., assignor.)					
159, 305	Cornell, John B., New York, N. Y. Wrought-iron column.....	Feb. 2, 1875	55	20	7	192
159, 305	Same..... same..... (Disclaimer filed).....	Apr. 8, 1875			7	565
160, 574	Same..... same.....	Mar. 9, 1875	297	101	7	400
160, 650	Same..... Elevated railway.....	Mar. 9, 1875	362	122	7	410
162, 999	Cornell, John B. and John M., New York, N. Y. Rolled-iron column.....	May 11, 1875	263	85	7	790
170, 993	Cornell, John D., Jersey City, N. J. Vibrating propeller.....	Dec. 14, 1875	325	108	8	1001
	Cornell, John M. (See Cornell, John B. and John M.)					
	Cornell, Lewis, et al. (See Downer, Phyleman A., assignor.)					
	Cornell, Sylvanus. (See McNabb, James, assignor.)					
	Cornell Watch Company. (See Bacon & Brown, assignors.)					
	Corning, Herberon, et al. (See Herrick, George, assignor.)					
	Corning, Nathaniel, et al. (See Robbins, Joseph A., assignor.)					
169, 150	Cornish, Harry B., River Falls, Wis. Bung and vent.....	Oct. 26, 1875	817	265	8	703
159, 393	Cornish, John A., Marshfield, Mo. Meat-tenderer.....	Feb. 2, 1875	135	47	7	203
	Cornwell, George W. (See Hubbell, Thomas J., assignor.)					
	Corrigan, Philip. (See Albertson, Albert, assignor.)					
165, 211	Corris, William, Rochester, N. Y. Wheel for vehicles.....	July 6, 1875	67	19	8	18
159, 900	Corruthers, Henry, Boston, Mass. Self-closing hopper-cock.....	Feb. 16, 1875	638	211	7	284
164, 974	Corsa, William P., Milford, Del. Drier and baker.....	June 29, 1875	1091	352	7	1111
	Corse, Albert C. (See Fagan, Michel G., assignor.)					
170, 821	Corse, Albert C., Troy, N. Y. Ash-sifting attachment.....	Dec. 7, 1875	150	50	8	970
163, 155	Corse, Albert C., and Michel G. Fagan, Troy, N. Y. Reservoir cooking-stove.....	May 11, 1875	407	{ 130 131 }	7	807
163, 156	Same..... same.....	May 11, 1875	408	{ 131 132 }	7	808
163, 157	Same..... same.....	May 11, 1875	409	{ 132 133 }	7	808
163, 158	Same..... same.....	May 11, 1875	410	{ 133 134 }	7	808
159, 645	Corse, Samuel, New York, N. Y. Car-starter.....	Feb. 9, 1875	377	125	7	245
165, 309	Same..... same.....	July 6, 1875	150	46	8	29
166, 750	Corson, John, Washington, D. C. Railway-rail-joint fastening.....	Aug. 17, 1875	556	170	8	295
168, 619	Cortis, Aaron J., San Francisco, Cal. Fare-box.....	Oct. 11, 1875	300	97, 98	8	614
166, 262	Corwin, Walter E., New York, N. Y. Imitation quilted fabric.....	Aug. 3, 1875	70	22	8	209
	Corwine, Quinton. (See Rowe, William H., assignor.)					
165, 984	Cosbey, Thomas, Mormon Mills, Tex. Wedge for splitting rock, &c.....	July 27, 1875	851	262	8	161
158, 913	Gosby, Oscar G., and George W. McGovern, Richmond, Va. Invalid-bedstead.....	Jan. 19, 1875	543	180	7	114
158, 684	Cosgrove, William N., Faribault, Minn. Dish-washer.....	Jan. 12, 1875	311	106	7	68

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 651	Cost, John P., assignor to Miller Brothers, Bellefontaine, Ohio. Shifting-seat for carriages.	Mar. 9, 1875	364	{ 122 123 }	7	410
	Costello, John. (See Clayton, Ransom F., assignor.)					
167, 226	Coston, William M., Quitman, Mo. Cultivator-frame.	Aug. 31, 1875	1035	321	8	377
167, 306	Coté, Louis, St. Hyacinthe, Canada. Machine for fitting counters to lasts.	Aug. 31, 1875	1101	346	8	388
6, 654	Cottingham, Gideon W., Rockport, Tex., assignor, by mesne assignments, to Cottingham Ironing Machine Company. Ironing apparatus. (Reissue.)	Sept. 21, 1875	666	211	8	516
167, 389	Cottingham, Gideon W., assignor to self and James P. Cottingham, Rockport, Tex. Sad-iron heater.	Sept. 7, 1875	9	3	8	408
	Cottingham Ironing Machine Company. (See Cottingham, Gideon W., assignor.) (Reissue.)					
8, 871	Cottingham, James P. (See Cottingham, Gideon W., assignor.)					
158, 914	Cottle, Shubael, New York, N. Y. Bead for necklaces. (Design.)	Dec. 28, 1875			8	1076
	Cottle, Shubael, assignor to Mulford, Hale & Cottle, New York, N. Y. Die for making hollow rings.	Jan. 19, 1875	543	180	7	114
153, 833	Cotton, James B., Dayton, Ohio. Door-spring.	Jan. 19, 1875	465	156	7	104
	Cottrell & Taylor. (See Cottrell, Herbert, assignor.)					
	Cottrell, Calvert B., et al. (See Firm, Joseph L., assignor.)					
	Same. (Reissue.)					
167, 227	Cottrell, Calvert B., Westerly, R. I. Printing-press.	Aug. 31, 1875	1036	{ 321 322 }	8	378
170, 061	Same. Sheet-delivery mechanism for printing-presses.	Nov. 16, 1875	730	232	8	845
170, 713	Cottrell, Herbert, Newark, N. J. Press for molding artificial fuel.	Dec. 7, 1875	55	17	8	958
161, 207	Cottrell, Herbert, assignor to Cottrell & Taylor, Newark, N. J. Rotary engine.	Mar. 23, 1875	890	292	7	496
171, 355	Cottrell, Isaac B., Bridgeville, Del. Drier.	Dec. 21, 1875	685	226	8	1057
159, 800	Couch, Samuel W., Cold Spring, N. Y. Window-ventilator.	Feb. 16, 1875	546	182	7	272
170, 714	Couch, William A., Hannibal, Mo. Fence.	Dec. 7, 1875	56	17	8	958
163, 917	Coughlin, Joseph E., San Francisco, Cal. Heater and condenser.	June 1, 1875	65	22	7	939
	Coulston, Thomas D. (See Sparks, William H., assignor.)					
158, 915	Coulter, Andrew, Riga, Russia. Car-coupling.	Jan. 19, 1875	544	181	7	114
161, 484	Coulthard, John, Brooklyn, N. Y. Seasoning-cup.	Mar. 30, 1875	1179	378	7	540
168, 457	Coumbe, John, Rhinebeck, N. Y. Photograph-burnisher.	Oct. 5, 1875	121	42	8	552
165, 212	Coupe, William, South Attleborough, Mass. Machinery for raising and transferring hides from vats.	July 6, 1875	68	19	8	18
	Coursolles, Toussaint G. (See Beaudry, Joseph, assignor.)					
167, 503	Courteille, Herrenstein, New York, N. Y., assignor, by mesne assignments, to Triumph Safety-Powder Company, Baltimore, Md. Manufacture of gunpowder.	Sept. 7, 1875	105		8	421
163, 580	Covel, Benjamin F., Robert L. Chace, and J. Myron Weaver, Fall River, Mass. Extensible fire-ladder.	May 25, 1875	830	{ 262 263 }	7	886
169, 423	Covel, Edward H., New York, N. Y. Process and apparatus for enriching gas or air with a definite and regulated percentage of hydrocarbon vapor.	Nov. 2, 1875	93	29	8	747
6, 754	Covel, E. Hall, administrator. (See Covel, William H., assignor.) (Reissue.)					
	Covel, William H., deceased, E. Hall Covel, administrator, and assignor to Jonathan Austin, New York, N. Y. Automatic feed and absorption carbureter. (Reissue.)	Nov. 23, 1875	1091	343	8	902
168, 620	Covell, Edgar C., and Mark M. Robinson, Laconia, N. H. Lock-work attachment for clocks.	Oct. 11, 1875	301	98	8	615
162, 902	Covell, Edward T., New Bedford, Mass. Paper can.	May 4, 1875	151	49	7	767
167, 504	Same. Metallic vessel.	Sept. 7, 1875	106	32	8	421
161, 935	Covell, Frank M., Los Gatos, Cal. Circular-saw mill.	Apr. 13, 1875	318	106	7	625
161, 757	Covert, James C., Troy, N. Y. Clasp or thimble for hitching-devices.	Apr. 6, 1875	144	50	7	589
	Covington, Nat., et al. (See Welter, James K., assignor.)					
	Covington, William J. (See Wade, Seaton H., assignor.)					
	Cowdery, J. S., et al. (See Fuchs, Charles H., assignor.)					
	Cowdery, M. F., et al. (See Fuchs, Charles H., assignor.)					
165, 213	Cowell, Charles G., Plainfield, Ill. Axle-protector.	July 6, 1875	70	20	8	18
	Cowell, John J., et al. (See Adams, George B., assignor.)					
169, 624	Cowell, Rensselaer A., Cleveland, Ohio. Car-coupling.	Nov. 9, 1875	299	97	8	782
	Cowie, George. (See Ramus, Charles E., assignor.)					
167, 437	Cowl, Joseph H., Newark, Ohio. Fruit-jar.	Sept. 7, 1875	52	16	8	413
	Cowles & Co., C. (See Gates, William, assignor.)					
165, 548	Cowles, Alfred A., New York, N. Y. Calendar-clock.	July 13, 1875	411	124	8	73
	Cowles, Harley D., et al. (See Stacy, George, assignor.)					
164, 638	Cowles, Irving C., Syracuse, N. Y. Screw-driver.	June 22, 1875	765	251	7	1062
167, 745	Cowles, Martin, Unionville, Conn. Ice-pick.	Sept. 14, 1875	332	106	8	460
	Cowles, William W., et al. (See Fisher, Simeon L., assignor.)					
	Cowman, Charles H., et al. (See Carrick, Thomas J., assignor.)					
163, 977	Cowman, John, and Samuel B. Barber, Rochester, N. Y. Manufacture of artificial marble.	June 1, 1875	113		7	947
	Cowper, Edward A. (See Cochrane & Cowper.)					
164, 148	Cox, Burton C., Cooper Hill, Mo. Sulky-cultivator.	June 8, 1875	292	100	7	982
167, 307	Cox, Charles H., assignor of one-half interest to Josiah I. Martin, Richmond, Va. Car-truck.	Aug. 31, 1875	1102	347	8	388
159, 905	Cox, Cumberlon G., Richmond, Va. Plow.	Feb. 16, 1875	644	213	7	225
171, 214	Cox, Daniel, assignor of one-half interest to A. E. McCray, Kingston, Mo. Bee-hive.	Dec. 21, 1875	560	184	8	1040
	Cox, George P. (See Badger, George W., assignor.)					
165, 660	Cox, Joseph, and George E. Hopkins, assignors to Cox, Whiteman & Cox, Philadelphia, Pa. Portable range.	July 20, 1875	529	162	8	105
160, 166	Cox, Seth, Oskaloosa, Iowa. Gate for railway-crossings.	Feb. 23, 1875	891	293	7	327
	Cox, Whiteman & Cox. (See Cox & Hopkins, assignors.)					
8, 276	Coxon, Jonathan, assignor to Greenwood Pottery Company, Trenton, N. J. Dish of pottery-ware. (Design.)	Apr. 20, 1875			7	651
158, 784	Coy, Franklin D., Marseilles, Ill., assignor to H. A. Pitts' Sons Manufacturing Company. Mounted horse-power.	Jan. 19, 1875	418	140	7	98
159, 249	Coyle, Charles J., Chicago, Ill. Shirt.	Feb. 2, 1875	8	3	7	186
162, 927	Coyle, Henry G., assignor of one-half interest to Charles H. Shaw, West Meriden, Conn. Solution for electroplating.	Apr. 27, 1875	975		7	723
159, 082	Coyne, John, Pittsburgh, assignor to self and Robert Chessman, Etna, Pa. Nail-assorting machine.	Jan. 26, 1875	723	239	7	145
	Cozzens, Samuel W., et al. (See Gue, Albert F., assignor.) (Reissue.)					
	Cozzens, William F. (See Young, John A., assignor.)					
171, 551	Crabtree, Abraham, Bacup, Great Britain. Middlings-purifier.	Dec. 28, 1875	883	289	8	1092
170, 526	Crabtree, John, and William H. Melcher, assignors to selves and William Crabtree, Philadelphia, Pa. Brick-machine.	Nov. 30, 1875	1194	377	8	925
	Crabtree, William. (See Crabtree & Melcher, assignors.)					
161, 329	Craig, Charles H., assignor to Edmund S. Sparrow, Quincy, Mass. Shutter and blind fastening.	Mar. 30, 1875	1030	335	7	522

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	Craig, David D. (See Cloud & Craig.)					
158, 574	Craig, Isaac S., Somerville, Mass. Button-hole-cutting attachment for sewing-machines.	Jan. 12, 1875	211	72	7	54
168, 142	Craig, James A., Philadelphia, Pa. Roofing-compound.	Sept. 28, 1875	740		8	534
170, 470	Craig, Lee D., Oakland, assignor of one-half interest to Charles Miller, San Francisco, Cal. Chair-fastening.	Nov. 30, 1875	1145	361	8	918
162, 221	Craig, Pascal L., East Troy, assignor of one-half interest to Henry C. Stratton, Coldwell's Prairie, Wis. Hay-loader.	Apr. 20, 1875	583	191	7	666
169, 151	Craig, S. H., et al. (See Smith, Albert C., assignor.)					
	Craig, William E., Indianapolis, Ind. Making patterns for casting.	Oct. 26, 1875	818	265	8	703
171, 268	Crain, William. (See Ruth & Crain.)					
	Crall, Egbert L., Athens, Ohio. Device for teaching drawing.	Dec. 21, 1875	612	200	8	1047
	Cram, Alonzo W. (See Chase & Cram.)					
161, 485	Cram, Alonzo W., Haverhill, Mass. Grate-bar.	Mar. 30, 1875	1180	379	7	541
161, 758	Same. same.	Apr. 6, 1875	144	50	7	590
162, 035	Cram, Alonzo W., Litchfield, assignor of one-half interest to Henry O. Goodrich, Jerseyville, Ill. Clutch-mechanism for operating treadles.	Apr. 13, 1875	394	133	7	635
	Cramer, Joel B. (See Brown & Cramer.)					
162, 036	Cramer, Leonard L. (See Everson & Cramer.)					
	Cramer, Reuben, Pittsburgh, Pa. Nut-lock.	Apr. 13, 1875	395	133	7	635
163, 918	Cramer, Urias, New Philadelphia, Ohio. Pot-scraper.	June 1, 1875	66	22	7	939
	Cramer, William V. T. (See Doubler, John W. H., assignor.)					
164, 906	Cramme, Friedrich, New York, N. Y. Washing-machine for brewers' use.	June 29, 1875	1033	333	7	1104
170, 527	Crammer, Christopher, Turner's Falls, Mass. Expansible tool for cutting holes of different sizes.	Nov. 30, 1875	1196	377	8	925
164, 813	Crandal, Edward M., Chicago, Ill. Can vent and stopple.	June 22, 1875	927	300	7	1083
	Crandall & Co., C. M. (See Crandall, Charles M., assignor.) (Reissue.)					
	Crandall & Co., C. M. (See White, Joseph J., assignor.)					
6, 356	Crandall, Charles M., assignor to C. M. Crandall & Co., Montrose, Pa. Toy block. (Re-issue.)	Mar. 30, 1875	1284	412 413	7	555
6, 409	Same. Toy building-block. (Reissue.)	May 4, 1875	243	78	7	779
160, 575	Crandall, Jesse A., Brooklyn, N. Y. Velocipede.	Mar. 9, 1875	298	101	7	400
161, 759	Crandall, Jesse A., New York, N. Y. Child's combined rocker, seesaw, and chair.	Apr. 6, 1875	145	51	7	590
166, 344	Crandall, Jesse A., assignor to self and Sylvanus White, Brooklyn, N. Y. Castanet.	Aug. 3, 1875	145	45	8	220
168, 323	Same. Croquet apparatus.	Oct. 5, 1875	8	3	8	565
168, 458	Crandall, Jesse A., Brooklyn, N. Y. Child's carriage.	Oct. 5, 1875	122	42	8	552
169, 625	Crandall, Jesse A., assignor to self and Sylvanus White, Brooklyn, N. Y. Skipping apparatus.	Nov. 9, 1875	301	97	8	782
161, 669	Crandall, John J., Philadelphia, Pa. Book-case.	Apr. 6, 1875	71	25	7	579
	Crandall, John N. (See Fuller, Jim B., assignor.)					
168, 143	Crandall, Lucien S., New York, N. Y. Automatic telegraph-key.	Sept. 28, 1875	740	233	8	534
168, 144	Same. same.	Sept. 28, 1875	741	234	8	534
170, 239	Same. Type-writing machine.	Nov. 23, 1875	922	287	8	878
	Crane, Abram E. (See Crane, John and Abram E.)					
	Crane, Breed & Co. (See Crane, Martin H., assignor.)					
	Same. same. (Design.)					
	Same. (See Heergeist, Charles, assignor.)					
	Crane, C. S. (See Eggleston & Phelps, assignors.)					
	Crane, Charles W. (See Crane, John H. and Charles W.)					
160, 576	Crane, Donald, Knight's Landing, Cal. Grain and straw lifter.	Mar. 9, 1875	289	101	7	400
167, 828	Crane, Francis E. S., assignor of one-half interest to Edwin D. Parkhurst, Newark, N. J. Bolt.	Sept. 21, 1875	427	136	8	482
	Crane, Franklin M. (See Marsh & Crane.)					
162, 903	Crane, John and Abram E., Canisteo, N. Y. Car-coupling.	May 4, 1875	152	49	7	767
161, 868	Crane, John E., Lowell, Mass. Beater for cotton-openers.	Apr. 13, 1875	258	86	7	617
165, 066	Same. same.	June 29, 1875	1170	276 377	7	1122
168, 324	Same. Cotton-opener.	Oct. 5, 1875	9	3	8	566
161, 760	Crane, John H. and Charles W., Boston, Mass. Process for ornamenting surfaces of glass, &c.	Apr. 6, 1875	146		7	590
162, 275	Crane, Jonas H., Schenectady, N. Y. Door-latch.	Apr. 20, 1875	635	207	7	672
165, 476	Crane, Lucius H., and Albert A. Miner, Brattleborough, Vt. Trileaf scales.	July 13, 1875	348	02	8	63
8, 395	Crane, Martin H., assignor to Crane, Breed & Co., Cincinnati, Ohio. Coffin-handle. (Case B. Design.)	June 15, 1875			7	1014
164, 812	Same. same.	June 22, 1875	927	300	7	1083
	Crane, Moses G. (See Gamewell, Crane & Rogers.)					
165, 918	Crane, Moses G., Newton, Mass. Signal-box for fire-alarm telegraphs.	July 27, 1875	784	241	8	153
171, 603	Crane, Robert, jr., Columbia, Pa. Potato-masher.	Dec. 28, 1875	932	305	8	1099
	Crane, Thomas S. (See Hooper & Crane.)					
160, 259	Crane, Thomas S., assignor of two-thirds interest to Charles M. Bolen and Fred. K. Day, Newark, N. J. Belt-shifter.	Mar. 2, 1875	5	3	7	349
	Cranford, John P. (See Abbott & Cranford.)					
6, 511	Cranford, John P., Brooklyn, N. Y., assignor, by mesne assignments, to self and Nathan B. Abbott. Composition pavement. (Reissue.)	June 29, 1875	1242	399	7	1132
170, 435	Cranston, Samuel F., Lansingburgh, assignor to John P. Adriance, Poughkeepsie, N. Y. Harvester-rake.	Nov. 30, 1875	1112	350	8	913
170, 822	Crary, John S., Washington, D. C. Baggage-scal.	Dec. 7, 1875	151	50	8	971
161, 208	Crary, John W., Philadelphia, Pa. Hot-air furnace.	Mar. 23, 1875	891	292	7	496
161, 330	Crawford, Benjamin, deceased, by Mary Crawford, administratrix, Pittsburgh, Pa. Pyrometer.	Mar. 30, 1875	1031	335	7	522
168, 723	Crawford, Eliphalet B., Sioux City, Iowa. Horse-collar.	Oct. 11, 1875	390	128	8	628
161, 594	Crawford, James G., Boston, Mass. Ironing-apparatus.	Apr. 6, 1875	6	2	7	569
170, 063	Crawford, John C., Fayette, Iowa. Wagon-jack.	Nov. 16, 1875	732	232	8	846
158, 685	Crawford, John J., Nashua, N. H. Screw-press.	Jan. 12, 1875	312	106	7	67
167, 505	Crawford, John J., San Francisco, Cal. Joint for hydraulic nozzles.	Sept. 7, 1875	107	34	8	422
163, 363	Crawford, John M., Philadelphia, Pa. Distributer for hydraulic pipes.	May 18, 1875	618	197	7	851
158, 686	Crawford, John T., Pontiac, Mich. Window-conservatory.	Jan. 12, 1875	313	106	7	68
165, 796	Crawford, Joseph F., Cazenovia, N. Y. Butter-pail.	July 20, 1875	653	200	8	123
	Crawford, Mary, administratrix. (See Crawford, Benjamin.)					
6, 546	Crawford, Peter S., Union, Ill. Device for tightening wire fences. (Reissue.)	July 20, 1875	766	234	8	138
166, 263	Crawford, Peter S., Woodstock, Ill. Folding table.	Aug. 3, 1875	71	22	8	209
159, 394	Crawford, Witsius A., Terre Haute, Ind. Apparatus for controlling way-cocks of water-pipes by electricity.	Feb. 2, 1875	135	47	7	203
166, 345	Crawshaw, Joseph, jr., Saint Louis, Mo. Show-rack for carpets.	Aug. 3, 1875	146	45	8	220
168, 325	Crea, James E., Allegheny, Pa. Grate.	Oct. 5, 1875	10	3	8	566
165, 477	Creal, Henry C., Cheyenne City, Wyo. Smelting-furnace.	July 13, 1875	349	102	8	63

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158, 472	Creamer, Horatio M., Brooklyn, N. Y. Grate-frame.....	Jan. 5, 1875	108	36	7	24
165, 797	Creamer, Horatio M., Boston, Mass. Ceiling register and ventilator.....	July 20, 1875	653	201	8	123
164, 636	Creamer, William G., Brooklyn, N. Y. Side-wall ventilator.....	June 22, 1875	764	251	7	1062
	Crease, Orlando. (See Heald, Alfred, assignor)..... (Design.)					
166, 071	Creelius, Louis J., Saint Louis, Mo. Sewing-machine.....	July 27, 1875	929	287	8	172
166, 590	Creger, Christopher C., Tiffin, Ohio. Rock-drilling machine.....	Aug. 10, 1875	388	120	8	262
166, 751	Creekmore, Hiram C., and John W. McMillin, Salado, Tex. Corn-sheller.....	Aug. 17, 1875	556	171	8	295
164, 149	Cregier, Dewitt C., Chicago, Ill. Hydrant.....	June 8, 1875	293	{ 100 101 }	{ 7 7 }	982
	Creighton, James R. (See Campbell & Creighton.)					
163, 000	Cremier, James, Philadelphia, Pa. Stand for stereoscopes and graphoscopes.....	May 11, 1875	263	85	7	790
165, 214	Crenshaw, Thomas C., Lexington, assignor of one-half interest to Cotton H. Allen, Saint Louis, Mo. Breast-strap slide.....	July 6, 1875	70	20	8	18
158, 403	Crenshaw, William T., and Robert J. Carothers, Burton, Tex. Cotton-press.....	Jan. 5, 1875	45	16	7	15
	Creps, Henry T. (See Lowman & Creps.)					
165, 067	Cresap, Alexander H., jr., Trenton, Tenn. Harness-hame.....	June 29, 1875	1171	377	7	1122
164, 907	Cresson, Charles M., assignor to Robert P. Dechert, trustee, Philadelphia, Pa. Process for separating fats.....	June 29, 1875	1034	333	7	1104
	Cresson, George V. (See Charlton, John, assignor.)					
161, 486	Creuzbaur, Robert, Williamsburgh, N. Y. Direct-acting reciprocating engine.....	Mar. 30, 1875	1181	379	7	541
	Cridge, Edmund J. (See Wells & Cridge)..... (Design.)					
163, 001	Crihfield, Aylett R., Lincoln, Ill. Crank and lever.....	May 11, 1875	265	86	7	790
162, 803	Crikelair, Gustave J., Green Bay, Wis. Bottle-stopper.....	May 4, 1875	62	20	7	755
8, 265	Crisand, Emil, assignor to Henry St. John, New Haven, Conn. Embroidery-pattern. (Case R. Design).....	Apr. 13, 1875			7	610
8, 266	Same.....same..... (Case S. Design).....	Apr. 13, 1875			7	610
8, 267	Same.....same..... (Case T. Design).....	Apr. 13, 1875			7	610
8, 268	Same.....same..... (Case U. Design).....	Apr. 13, 1875			7	610
8, 318	Same.....same..... (Case AA. Design).....	May 11, 1875			7	782
8, 319	Same.....same..... (Case BB. Design).....	May 11, 1875			7	782
8, 320	Same.....same..... (Case CC. Design).....	May 11, 1875			7	782
8, 411	Same.....same..... (Case DD. Design).....	June 22, 1875			7	1056
8, 412	Same.....same..... (Case EE. Design).....	June 22, 1875			7	1056
8, 461	Same.....same..... (Case FF. Design).....	July 6, 1875			8	4
8, 572	Same.....same..... (Case GG. Design).....	Aug. 24, 1875			8	322
8, 573	Same.....same..... (Case HH. Design).....	Aug. 24, 1875			8	322
8, 705	Same.....same..... (Case II. Design).....	Oct. 5, 1875			8	561
8, 795	Same.....same..... (Case JJ. Design).....	Nov. 16, 1875			8	819
8, 828	Same.....same..... (Case LL. Design).....	Dec. 7, 1875			8	945
8, 829	Same.....same..... (Case KK. Design).....	Dec. 7, 1875			8	945
165, 068	Critchlow, Thomas, and James Kidd, Baldwin, Pa. Apparatus for casting steel.....	June 29, 1875	1172	377	7	1122
170, 528	Crittenden, Louis S., Angelica, N. Y. Combined horse-blanket and fly-net.....	Nov. 30, 1875	1197	378	8	925
162, 276	Crittenden, Simeon, and James Waters, Chatfield, Minn. Middlings-purifier.....	Apr. 20, 1875	635	207	7	672
	Crittenden, William A. (See Card, Daniel O., assignor)..... (Reissue.)					
	Crittendon, Charles N. (See Chinnock, Charles, assignor)..... (Reissue.)					
164, 429	Crocker, Frederick H., Gonic, N. H. Stopping mechanism for spinning-jacks.....	June 15, 1875	577	187	7	1028
	Crocker, Josiah M. (See Randall, William, assignor)..... (Reissue.)					
170, 471	Crocker, Samuel E., assignor to self and Sherburne S. Dow, Fitchburgh, Mass. Pulp-strainer.....	Nov. 30, 1875	1145	361	8	918
159, 801	Crocker, Samuel L., Taunton, Mass. Refining copper, &c.....	Feb. 16, 1875	547		7	272
163, 050	Crocker, William O., Turner's Falls, Mass. Hot-air furnace.....	May 11, 1875	311	100	7	795
169, 089	Crockett, Samuel J., assignor to George T. McLaughlin and Thomas F. Scanlan, Boston, Mass. Octave-coupler for organs.....	Oct. 26, 1875	764	248	8	695
160, 396	Crofoot, Leonard, Pavillion, N. Y. Bag-holder.....	Mar. 2, 1875	121	44	7	366
166, 506	Croft, Charles, assignor of one-half interest to Matthew Buckley and William H. Croft, Weston, Conn. Weeding implement.....	Aug. 10, 1875	319	96	8	252
	Croft, Philo S. (See Lyons, John, assignor)					
	Croft, William H., et al. (See Croft, Charles, assignor.)					
167, 746	Croke, William H., assignor of two-thirds interest to Theodore W. Hagaman, Philadelphia, Pa. Machine for forming hat-bodies.....	Sept. 14, 1875	333	107	8	460
169, 677	Croll, George, Tontogany, Ohio. Combined cultivator and harrow.....	Nov. 9, 1875	354	112	8	789
171, 470	Crombie, Alexander, Wilmington, Ill. Mining-machine.....	Dec. 28, 1875	805	265	8	1081
	Crompton, George. (See Bullough, James.)					
	Same..... (See Parsons, Henry, assignor)..... (Reissue.)					
	Same..... (See Pike, Edwin S., assignor.)					
	Same..... (See Wyman, Horace, assignor.)					
	Same.....same..... (Reissue.)					
6, 314	Crompton, George, Worcester, Mass. Loom shedding mechanism..... (Reissue.)	Mar. 2, 1875	228	78	7	382
6, 442	Same.....Harness-motion for looms..... (Reissue.)	May 25, 1875	1051	333	7	916
161, 487	Same.....Shuttle-box mechanism.....	Mar. 30, 1875	1185	{ 379 380 }	{ 7 7 }	541
161, 488	Same.....same.....	Mar. 30, 1875	1187	381	7	541
161, 595	Same.....Loom.....	Apr. 6, 1875	7	3	7	570
162, 901	Same.....Shedding mechanism for looms.....	May 4, 1875	153	50	7	767
158, 362	Crompton, George, and Horace Wyman, Worcester, Mass. Shedding and pattern mechanism for looms.....	Jan. 5, 1875	11	4	7	10
168, 233	Cronin, Martin, Washington, D. C. Fireman's ladder.....	Sept. 28, 1875	815	259	8	545
6, 798	Crook, Charles, Newhope, Pa., assignor, by mesne assignments, to James I. Hendryx. Harvester.....	Dec. 14, 1875	538	177	8	1029
	Crook, James A. (See Crook, John and James A.)					
158, 401	Crook, John and James A., Augusta, Ohio. Saw-sharpener.....	Jan. 5, 1875	46	16	7	15
	Crooker, George A. (See Van De Water, James H., assignor.)					
	Crosby, Abel A. (See Gilzinger, Sebastian, assignor.)					
165, 069	Crosby, Chauncey O., assignor to Leonard Winship and Samuel E. Barney, New Haven, Conn. Bustle.....	June 29, 1875	1173	377	7	1122
159, 157	Crosby, George H., Somerville, Mass. Safety-valve.....	Jan. 26, 1875	787	258	7	154
160, 167	Same.....same.....	Feb. 23, 1875	892	294	7	327
164, 908	Crosby, George H., East Somerville, and Albert C. Meady, Charlestown, Mass. Gage-dial.....	June 29, 1875	1035	334	7	1104
170, 994	Crosby, Giles H., Rome, Ohio. Carriage-wheel.....	Dec. 14, 1875	326	108	8	1001
161, 101	Crosby, John A., Lawrence, Mass. Weaver's shuttle.....	Mar. 23, 1875	800	262	7	484
6, 790	Crosby, Josiah, deceased, assignor, by mesne assignments, to Whittier Machine Company, Boston, Mass. Invalid-bedstead..... (Reissue.)	Dec. 7, 1875	258	86	8	984
171, 552	Crosby, Lewis M., Ashtabula, Ohio. Wash-board.....	Dec. 28, 1875	884	289	8	1092
164, 430	Cross, Alonzo T., Providence, R. I. Magic pencil-case.....	June 15, 1875	577	187	7	1028

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
159, 749	Cross, Christopher G., Chicago, Ill. Wood-boring machine.....	Feb. 16, 1875	497	166	7	266
	Cross, Ira. (See Wilder, Elihu, assignor.)					
	Cross, Jesse B. (See Cushman, Henry S., assignor.)					
168, 724	Cross, John R., New York, N. Y. Brick-machine.....	Oct. 11, 1875	391	128	8	628
	Cross, Laroy W. (See Harper & Cross.)					
170, 064	Cross, William C., Boston, Mass. Lamp-extinguisher.....	Nov. 16, 1875	735	233	8	846
171, 269	Same..... Lamp-filler.....	Dec. 21, 1875	613	200	8	1047
169, 962	Cross, William R. P., Portland, Me. Plate-rack.....	Nov. 16, 1875	643	201	8	833
161, 761	Crosscup, George W., Philadelphia, Pa. Ruler.....	Apr. 6, 1875	147	51	7	590
166, 752	Crossett, Truman, San Francisco, Cal. Dental plugger.....	Aug. 17, 1875	557	171	8	295
	Crossley, H. A., et al. (See Shawk, George W., assignor.) (Reissue.)					
159, 907	Crossley, Thomas, and Levi A. Bertollette, Wilmington, Del. Unloading attachment for carts, &c.....	Feb. 16, 1875	645	213	7	285
	Crossman, Montgomery. (See Spicer, Pratt A., assignor.)					
170, 063	Crossman, Montgomery, assignor of one-half interest to Pratt A. Spicer, Marshall, Mich. Windmill.....	Nov. 16, 1875	732	{ 232 } { 233 }	8	846
170, 427	Same..... Device for converting motion.....	Nov. 23, 1875	1088	342	8	902
161, 670	Crosswell, Herbert E., Providence, R. I. Life-preserving stool.....	Apr. 6, 1875	72	26	7	579
8, 655	Crôteau, Candide W., Philadelphia, Pa. Toy money-bank..... (Design)	Sept. 21, 1875			8	475
159, 564	Crother, Edwin, and Michael Bergerson, Hackensack, N. J. Velocipede.....	Feb. 9, 1875	317	103	7	235
160, 168	Crouch, George, New York, N. Y. Corner-cap for valises, &c.....	Feb. 23, 1875	893	294	7	327
	Crounse, John C. (See Hackett & Crounse.)					
	Crounse, L. L. (See Endres, John J., assignor.)					
159, 906	Crow, William J., New York, N. Y., assignor of one-half interest to Joseph MacDonald, New York, N. Y. Water-closet.....	Feb. 16, 1875	644	213	7	285
169, 963	Crowell, Ezra, Belfast, N. Y. Clothes-pounder.....	Nov. 16, 1875	644	201	8	833
160, 882	Crowell, Helen C., assignor of two-thirds interest to Frederick Jarecki, Erie, Pa. Lawn-mower.....	Mar. 16, 1875	592	193	7	447
169, 626	Crowell, Solomon, Courtland, N. Y. Coffee-pot.....	Nov. 9, 1875	301	97	8	783
	Crowell, W. H., et al. (See Shawk, George W., assignor.) (Reissue.)					
162, 461	Crowl, George, New Lisbon, Ohio. Metallic roofing.....	Apr. 27, 1875	836	269	7	705
167, 072	Crowley, George G., Somerville, N. Y. Clothes-frame.....	Aug. 24, 1875	870	271	8	348
166, 594	Crowley, John B., and Addis E. Chamberlain, Cincinnati, Ohio. Cooking-stove.....	Aug. 10, 1875	392	121	8	263
	Crowson, William L. (See McCauley & Crowson.)					
165, 478	Crowther, William H., Boston, Mass. Ticket-case.....	July 13, 1875	349	102	8	63
165, 479	Crowther, William H., and Thomas Collins, Boston, Mass. Fruit-case.....	July 13, 1875	351	103	8	63
160, 308	Crowthers, Joseph B., Monongahela City, and William R. Wilkins, Pike Run, Pa. Drop-chute reverser.....	Mar. 2, 1875	45	17	7	355
	Croxton, James C. (See Seeber & Croxton.)					
	Croy, David M. (See Croy, William D. and David M.)					
160, 169	Croy, William D. and David M., Blacksburgh, assignors of one-third interest to William H. Coffman, Dayton, Va. Washing-machine.....	Feb. 23, 1875	893	294	7	327
	Crudden, Samuel. (See Barden & Crudden.)					
168, 145	Cruikshank, Harry, Cecilton, Md. Saddle-tree.....	Sept. 28, 1875	742	234	8	534
164, 814	Crum, Charles L., Winchester, Va. Paper-machine.....	June 22, 1875	928	300	7	1083
158, 916	Crumble, Alexander, Nyack, and David Donald, Brooklyn, N. Y. Baker's oven.....	Jan. 19, 1875	545	181	7	114
161, 489	Same..... Furnace of baker's oven.....	Mar. 30, 1875	1189	381	7	541
162, 128	Crumbling, Tobias, East Prospect, Pa. Washing-machine.....	Apr. 27, 1875	976	314	7	723
158, 687	Crump, Shadrack H., Reading, Pa. Refrigerator.....	Jan. 12, 1875	313	106	7	68
	Cuan, Hippolyte. (See Vabe & Cuan.)					
	Cubley, Edwin J. (See Gorham & Cubley.)					
159, 802	Culbertson, Andrew J., San Andreas, Cal. Car-spring.....	Feb. 16, 1875	548	182	7	272
165, 714	Same..... Fire-escape.....	July 20, 1875	577	176	8	112
158, 917	Culbertson, William C., Girard, Pa. Sheer-boom.....	Jan. 19, 1875	546	182	7	114
163, 002	Same..... same.....	May 11, 1875	265	86	7	790
164, 719	Culham, Francis, Thedford, Canada, assignor of one-half interest to Richard A. Rounds, Grand Rapids, Mich. Signal-operating device.....	June 22, 1875	841	273	7	1072
161, 389	Cull, Henry, Marshalltown, Iowa. Combined cupboard and sink.....	Mar. 30, 1875	1090	353	7	529
163, 159	Same..... Earth-anger.....	May 11, 1875	411	134	7	808
169, 964	Cullers, Charles K., Bunceon, Mo. Spark-conveyer.....	Nov. 16, 1875	644	202	8	833
	Cullom, John H. (See Lane & Cullom.)					
6, 779	Culp, James D., Gilroy, assignor to Consolidated Tobacco Company, San Francisco and Gilroy, Cal. Knitted bag for packages of compressed vegetable substances. (Reissue).....	Dec. 7, 1875	243	83	8	983
162, 353	Culp, James D., Gilroy, Cal. Tobacco-package.....	Apr. 20, 1875	706	230	7	681
169, 777	Culp, James D., San Felipe, Cal. Art of curing tobacco.....	Nov. 9, 1875	460	146	8	803
169, 778	Culp, James D., Gilroy, Cal. Cigar-mold.....	Nov. 9, 1875	462	146	8	803
	Culp, Joseph A. (See Frankfoder, David, assignor.)					
	Same..... (See Lehman, Daniel A., assignor.)					
	Culter, Horace G. (See Earing, Henry B., assignor.)					
	Culter, Richard A. (See Earing, Henry B., assignor.)					
8, 768	Culter, Richard A., and David C. Procter, Peoria, Ill. Cooking-stove..... (Design)	Nov. 2, 1875			8	729
169, 678	Culver, Freeman and Jefferson H., West Oneonta, N. Y. Colter.....	Nov. 9, 1875	354	112	8	789
	Culver, Jefferson H. (See Culver, Freeman and Jefferson H.)					
	Culver, John P., et al. (See Broas, Richard M. C., assignor.)					
163, 051	Culver, John P., Jersey City, N. J. Flexible joint for pipes.....	May 11, 1875	312	100	7	795
	Culver, Page & Hoyne. (See Von Doehn, William, assignor.)					
	Culver, Willard B. (See Broadbent, Zeigler & Culver.)					
168, 882	Cuming, Alfred A., South Hingham, Mass. Boot.....	Oct. 19, 1875	543	178	8	658
167, 506	Cuming, Mari A., New York, N. Y. Machine for pressing hats.....	Sept. 7, 1875	108	34	8	422
159, 158	Cumming, James, Buffalo, N. Y. Railway-crossing.....	Jan. 26, 1875	788	258	7	154
166, 855	Same..... Railway-frog.....	Aug. 17, 1875	649	202	8	308
6, 729	Cummings, Allan, assignor to New York Screw Company, New York, N. Y. Wood-screw..... (Reissue)	Nov. 9, 1875	565	176	8	815
6, 730	Same..... same..... (Reissue)	Nov. 9, 1875	566	177	8	815
161, 390	Cummings, Allan, New York, N. Y. Wood-screw.....	Mar. 30, 1875	1091	354	7	520
161, 762	Same..... Roofing.....	Apr. 6, 1875	142	51	7	590
162, 037	Same..... Pouring-lip for sheet-metal measures.....	Apr. 13, 1875	395	133	7	635
163, 747	Same..... Copper bottom for kettles.....	May 25, 1875	975	309	7	605
161, 007	Cummings, Charles, Virginia City, Nev. Tool for turning metal.....	Mar. 23, 1875	708	234	7	472
168, 621	Same..... Grinding and amalgamating pan.....	Oct. 11, 1875	302	98	8	615
159, 306	Cummings, Charles J., Preble, N. Y. Nut-lock.....	Feb. 2, 1875	55	21	7	192
167, 155	Cummings, Ephraim H., Chicago, Ill. Apparatus for preparing and distributing liquid manures.....	Aug. 31, 1875	975	303	8	369
164, 150	Cummings, George W., Franklin, Pa. Fire-place grate.....	June 8, 1875	295	101	7	982
170, 663	Cummings, Montrovi D., Hope, Ohio. Windmill.....	Dec. 7, 1875	8	3	8	952

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 462	Cummings, Perley M., Lyons City, Iowa. Mechanical movement.....	Apr. 27, 1875	837	269	7	706
	Cummins, William. (See Hartin & Cummins.)					
162, 905	Cundey, Elijah, Philadelphia, Pa. Soap-holder.....	May 4, 1875	155	50	7	767
167, 991	Cunningham, James, Rochester, N. Y. Carriage-spring.....	Sept. 21, 1875	558	180	8	502
169, 627	Same..... Fifth-wheel.....	Nov. 9, 1875	302	97	8	783
	Cunningham, John T. (See Negley & Cunningham.)					
171, 553	Cunningham, Patrick, assignor of one-half interest to Bernard Cogan, Newark, N. J. Bomb-lance.....	Dec. 28, 1875	884	290	8	1092
160, 170	Cunningham, Peter B., Freehold, assignor to Thomas Weiss, Bethlehem, Pa. Shovel.....	Feb. 23, 1875	894	294	7	327
166, 347	Cunningham, Peter B., Bethlehem, Pa. Die for cutting, molding, and punching shovel-blades.....	Aug. 3, 1875	147	45	8	220
166, 854	Cunningham, Peter B., Freehold, Pa. Vehicle fifth-wheel.....	Aug. 17, 1875	648	202	8	308
	Cunningham, Robert. (See Place & Cunningham.)					
8, 647	Cunningham, William B., and Philip Hill, Philadelphia, Pa. Medal..... (Design).....	Sept. 14, 1875			8	439
	Curkendall, George. (See Moore & Curkendall.)					
170, 823	Curlee, Merideth P., Corinth, Miss. Seed-planter and fertilizer-distributor.....	Dec. 7, 1875	152	51	8	971
165, 310	Curran, James, Baltimore, Md. Device for tapping water-mains.....	July 6, 1875	151	46	8	29
161, 490	Curran, John J., Chicago, Ill. Lumber-drier.....	Mar. 30, 1875	1190	382	7	542
165, 409	Curran, Michael, Nashua, N. H. Automatic fire-lighter.....	July 13, 1875	279	83	8	53
	Curran, P. D., et al. (See Minor, John O., assignor.)					
171, 101	Currier, James M., Portland, Me. Coffin.....	Dec. 14, 1875	421	140	8	1014
162, 533	Currier, Richard B., Northampton, Mass. Pencil-case.....	Apr. 27, 1875	900	288	7	713
164, 975	Currier, William A., Newburyport, Mass. Anchor.....	June 29, 1875	1092	352	7	1111
162, 534	Curtis, Charles C., Coos, N. H. Device for felling trees.....	Apr. 27, 1875	901	288	7	713
166, 753	Curtis, Charles C., Stratford, N. H. Rope-stretcher.....	Aug. 17, 1875	558	171	8	295
167, 647	Curtis, Edward B., Wellsville, N. Y. Handle for milk-cans.....	Sept. 14, 1875	250	78	8	448
6, 357	Curtis, Francis, and Edward P. Russell, Newburyport, Mass. Pump..... (Reissue).....	Mar. 30, 1875	1285	413	7	555
165, 070	Curtis, George S., Chicago, Ill. Car-starter.....	June 29, 1875	1174	378	7	1123
166, 348	Curtis, George W. H., Brooklyn, N. Y. Bobbin for sewing-machines.....	Aug. 3, 1875	148	46	8	220
159, 908	Curtis, Harrison W., assignor to H. S. Hale, A. Kilburn, J. W. Hale, H. W. Curtis, C. Kilburn, and Warren Hale, Philadelphia, Pa. Wardrobe-bedstead.....	Feb. 16, 1875	646	213 214	7	286
160, 883	Curtis, Henry M., assignor to self and F. P. Bogardus, Ypsilanti, Mich. Fender for vehicles.....	Mar. 16, 1875	593	193	7	447
167, 992	Curtis, Henry M., Ypsilanti, Mich. Carriage-spring.....	Sept. 21, 1875	559	180	8	502
	Curtis, H. W., et al. (See Curtis, Harrison W., assignor.)					
	Curtis, James M. (See Baux, John B., assignor.)					
	Curtis, John. (See Phoenix, James H., assignor.)					
162, 222	Curtis, John, Cincinnati, Ohio. Wheel for vehicles.....	Apr. 20, 1875	585	192	7	666
163, 052	Same..... Dash-board for carriages.....	May 11, 1875	313	100	7	795
161, 763	Curtis, Mosely S., Long Island City, assignor of one-half interest to Walter McCollum, New York, N. Y. Hose-nozzle.....	Apr. 6, 1875	149	51	7	590
165, 071	Curtis, Stephen, and Edwin H. Rowley, New York, N. Y. Ladle.....	June 29, 1875	1175	378	7	1123
	Curtis, V. G. (See Haggerty, John, assignor.)					
6, 772	Curtis, William H., Chicago, Ill., assignor to Charles B. and John K. Clark, Edwin L. Ferguson, and Henry R. Clark. Mop-head..... (Reissue).....	Nov. 30, 1875	1321	417	8	941
159, 750	Curtiss, Edward P., Cleveland, Ohio, assignor of one-half interest to Theodore C. Foote. Knitting-machine.....	Feb. 16, 1875	499	167	7	266
161, 008	Curtiss, Edward P., Norwalk, assignor of one-half interest to Theodore C. Foote, Cleveland, Ohio. Knitting-machine.....	Mar. 23, 1875	709	234	7	473
161, 009	Same..... Circular-knitting machine.....	Mar. 23, 1875	711	235	7	473
165, 311	Curtiss, Edward P., Norwalk, Ohio. Knitting-machine for making bullion-fringe.....	July 6, 1875	152	46	8	29
6, 799	Curtiss, Enos, Findley, Ohio. Cider-mill..... (Reissue).....	Dec. 14, 1875	539	177	8	1029
160, 397	Curtiss, Enos, Traverse City, Mich. Cider-mill.....	Mar. 2, 1875	122	45	7	366
166, 969	Curtiss, James A., and Samuel G. Burleigh, Grand Rapids, Mich. Adjustable sewing-machine treadle.....	Aug. 24, 1875	774	239	8	334
162, 129	Curtiss, Marshall S., assignor of one-half interest to William Wilson, Earlville, Ill. Single-tree hook and clip.....	Apr. 27, 1875	976	314	7	723
160, 577	Curzon, James, Darien, Conn. Lamp-burner.....	Mar. 9, 1875	299	101	7	400
159, 159	Cushing, Alvin M., Lynn, Mass. Shoe-horn.....	Jan. 26, 1875	769	259	7	155
170, 158	Cushing, Cyrus F., South Braintree, Mass. Fire-kindler.....	Nov. 23, 1875	848	265	8	868
169, 342	Cushing, George H., Chicago, Ill., assignor to Samuel S. White, Philadelphia, Pa. Hand-piece for dental engines.....	Nov. 2, 1875	17	6	8	737
160, 398	Cushing, Mark A., Aurora, Ill. Heating-stove.....	Mar. 2, 1875	123	45	7	366
166, 072	Same..... Magazine heating-stove.....	July 27, 1875	931	288	8	173
	Cushing, Sewell G. (See Chamberlin & Cushing.)					
164, 529	Cushman, Cyrus S., assignor to Nesbitt D. Stoops, Philadelphia, Pa. Sewing-machine.....	June 15, 1875	658	213	7	1038
165, 798	Same.....	July 20, 1875	654	201	8	123
167, 747	Same.....	Sept. 14, 1875	334	107	8	461
169, 965	Cushman, Cyrus S., Philadelphia, Pa. Sewing-machine.....	Nov. 16, 1875	645	202	8	834
166, 191	Cushman, Dexter, Milford, Mass. Carriage-wheel.....	Aug. 3, 1875	9	3	8	200
163, 638	Cushman, Francis A., Lebanon, N. H. Paper-pulp engine.....	May 25, 1875	885	279	7	893
171, 356	Cushman, Henry C., and George T. Cockburn, Logansport, Ind. Head-rest.....	Dec. 21, 1875	686	226	8	1057
164, 675	Cushman, Henry S., assignor to self and Jesse B. Cross, Milford, Mass. Shoe-knife.....	June 22, 1875	798	261	7	1066
169, 894	Cushman, Henry S., Milford, Mass. Shoe-sole fastening.....	Nov. 16, 1875	587	182	8	826
163, 919	Cushman, Henry T., Bennington, Vt. Mucilage-holder.....	June 1, 1875	67	23	7	940
163, 581	Cushman, Joseph, Thomson, Ill. Windmill.....	May 25, 1875	833	263	7	887
8, 816	Cussen, William J., Richmond, Va., assignor to G. W. Gail and Christian Ax, Baltimore, Md. Tobacco-bag..... (Design).....	Nov. 30, 1875			8	909
170, 346	Custer, Christian, assignor of one-half interest to Charles K. Bullock, Philadelphia, Pa. Bearing for millstones.....	Nov. 23, 1875	1013	318	8	892
162, 804	Custer, George, Monroe, Mich. Horseshoe-machine.....	May 4, 1875	63	21	7	755
	Custer, George M. (See Owen & Custer.)					
171, 471	Cutbirth, George R., San Francisco, Cal. Padlock.....	Dec. 28, 1875	805	265	8	1081
164, 976	Cutler, Frederick H., Buffalo, N. Y. Parlor-table.....	June 29, 1875	1093	352	7	1111
168, 459	Same..... Office-desk.....	Oct. 5, 1875	123	43	8	583
171, 357	Cutter, James S., Brooklyn, N. Y., assignor to Joseph M. Davis, Plainfield, N. J. Process for preparing vegetable fiber for upholstering.....	Dec. 21, 1875	687	227	8	1057
168, 460	Cutter, John D., New York, N. Y. Spool-exhibiting case.....	Oct. 5, 1875	124	43	8	583
	Cutter, Tower & Co. (See Richards, Percival D., assignor.)					
	Cutting, Adolphus. (See Bullock, William M., assignor.)					
	Cutting, Harvey A. (See Cutting, Henry, assignor.)					
170, 240	Cutting, Henry, assignor of one-half interest to Harvey A. Cutting, Buffalo, N. Y. Sash-balance.....	Nov. 23, 1875	923	287	8	878
169, 424	Cyr, Aubin, Lowell, Mass. Car-coupling.....	Nov. 2, 1875	96	29	8	748
159, 646	Daby, Augustin W., Brooklyn, N. Y. Child's carriage.....	Feb. 9, 1875	378	125	7	245

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	Daby, A. W. (See Elder, Roscoe G.)..... (Reissue.)					
158, 918	Da Costa, Altamonte, et al. (See Da Costa, David R., assignor.)					
	Da Costa, David R., assignor to Rebecca M., Olivia, and Altamonte Da Costa, Philadelphia, Pa. Game apparatus.....	Jan. 19, 1875	547	182	7	114
	Da Costa, Olivia, et al. (See Da Costa, David R., assignor.)					
	Da Costa, Rebecca M., et al. (See Da Costa, David R., assignor.)					
	Daggett, Henry S. (See Tittman, Alexander, assignor.)					
170, 347	Dahler, August, New York, N. Y. Car-starter.....	Nov. 23, 1875	1015	318	8	895
159, 647	Dähne, Frederick W., Swansea, Great Britain. Extracting gold.....	Feb. 9, 1875	379	.....	7	245
168, 622	Daire, Henry L., Alexandria, La. Hunting-jacket.....	Oct. 11, 1875	302	98	8	615
168, 623	Daimler, Gottlieb W., Muelheim-on-the-Rhine, Germany. Air and gas engine.....	Oct. 11, 1875	303	99 100	8	615
169, 895	Dalish, Silas S., Washington, D. C. Sand and gravel drier.....	Nov. 16, 1875	587	.....	8	826
164, 530	Daken, Emily R., Cold Water, Mich. Coffee-steepers.....	June 15, 1875	659	213	7	1038
	Dale, Henry, et al. (See Scott, Walter, assignor.)					
163, 920	Dale, Thomas L., Russellville, Ky. Sash-balance.....	June 1, 1875	68	23	7	940
161, 102	Dale, William P., Pennsylvania State College, Pa. Wheel-cultivator.....	Mar. 23, 1875	800	263	7	484
170, 529	Dallar, Samuel, assignor to self and Horace A. Beale, Parkesburgh, Pa. Bottom plate for puddling-furnaces.....	Nov. 30, 1875	1198	378	8	925
164, 720	Dalleinre, Ernest, New York, N. Y. Method of producing etchings on glass.....	June 22, 1875	842	.....	7	1072
167, 993	Dalsen, Charles M., Philadelphia, Pa. Hatchway.....	Sept. 21, 1875	559	180	8	502
	Dalton, George, et al. (See McKanna, Robert A., assignor.)					
	Dalton, John, et al. (See McKanna, Robert A., assignor.)					
	Dalton, John E. (See Benton, Thomas P., assignor.)					
160, 007	Dalzell, David, South Egremont, Mass. Device for attaching hubs to axles.....	Feb. 23, 1875	757	250	7	308
169, 679	Dam, Freeland H., Saint Cloud, Minn. Machine for boring blind-stiles.....	Nov. 9, 1875	355	112	8	789
164, 151	Daman, James C., Elk Point, Dak. Grain-drill.....	June 8, 1875	296	101	7	982
170, 241	Same.....	Nov. 23, 1875	924	287	8	878
163, 160	Dame, William, Woonsocket, R. I. Self-lubricating journal-box.....	May 11, 1875	412	134	7	808
159, 565	Damen, George, Brooklyn, N. Y. Safe.....	Feb. 9, 1875	318	104	7	336
159, 395	Damm, John, New York, N. Y. Reclining-chair.....	Feb. 2, 1875	137	47	7	214
167, 507	Damon, Albert P., Reading, assignor to Damon, Temple & Co., Boston, Mass. Neck-tie.....	Sept. 7, 1875	110	34	8	422
	Damon, Alexander M., deceased. (See Moulton, Damon & Rice.)					
	Damon, Laura S., administratrix. (See Moulton, Damon, & Rice.)					
169, 779	Damon, Phebe D., Fayetteville, N. Y. Vegetable-steamer.....	Nov. 9, 1875	463	146	8	803
	Damon, Temple & Co. (See Damon, Albert P., assignor.)					
163, 748	Dana, Joseph, Mitchell, Ind., assignor of one-half interest to Edward P. Hamilton, Louisville, Ky. Cotton-seed planter.....	May 25, 1875	976	309	7	905
167, 073	Danby, Byron, Philadelphia, Pa. Fracture apparatus.....	Aug. 24, 1875	871	272	8	348
166, 507	Danforth, Aciel A., assignor to self and Melville C. Kimball, Lynn, Mass. Heel for boots and shoes.....	Aug. 10, 1875	320	97	8	252
161, 491	Danforth, Deloss A., assignor to self and A. N. Chamberlain, Elkhart, Ind. Drive-well point.....	Mar. 30, 1875	1191	382	7	542
163, 749	Danforth, Delos A., Elkhart, Ind. Driven-well point.....	May 25, 1875	977	309	7	905
169, 966	Daniel, Benjamin F., Quincy, Fla. Moth-trap.....	Nov. 16, 1875	646	202	8	834
170, 995	Daniels, Aaron M., Hartford, Conn. Lamp-wick.....	Dec. 14, 1875	326	108	8	1001
	Daniels, Albert W. (See Fitz Patrick, William H., assignor.)					
	Daniels, Charles. (See Daniels, William and Charles.)					
167, 508	Daniels, Frederic G., Pawtucket, R. I. Door-bell.....	Sept. 7, 1875	111	34	8	422
167, 438	Daniels, John F., Boston, Mass. Cast-iron sectional boiler.....	Sept. 7, 1875	53	16	8	413
165, 799	Daniels, Taylor E., Detroit, Mich. Pocket-inhaler.....	July 20, 1875	656	202	8	123
166, 264	Same..... Machine for molding concrete pipe, drain-tile, &c.....	Aug. 3, 1875	71	22, 23	8	209
166, 265	Same..... Compound for artificial stone.....	Aug. 3, 1875	74	.....	8	209
166, 686	Same..... Breast-cup for females.....	Aug. 17, 1875	495	151	8	286
164, 977	Daniels, William, Brooklyn, N. Y. Paper-folding machine.....	June 29, 1875	1094	353	7	1111
167, 308	Same..... Cutter and perforator for paper.....	Aug. 31, 1875	1103	347	8	388
167, 309	Same..... Folding and perforating machine.....	Aug. 31, 1875	1103	347	8	388
164, 978	Daniels, William and Charles, Brooklyn, N. Y. Paper-folding machine.....	June 29, 1875	1095	353	7	1111
168, 235	Daniels, William H., Montpelier, Ohio. Plow.....	Sept. 28, 1875	817	260	8	545
170, 436	Daniels, William K., Peabody, Mass. Rotary press.....	Nov. 30, 1875	1113	350	8	913
161, 209	Danielson, John A., Calumet, Mich. Bag-fastener.....	Mar. 23, 1875	892	293	7	497
6, 733	Dann, Henry D., Oshkosh, Wis. Saw-mill dog..... (Reissue.)	Nov. 9, 1875	571	177	8	816
165, 215	Dann, Henry W., West Troy, N. Y. Smoking-case.....	July 6, 1875	71	20	8	18
168, 725	Dann, Isaac N., assignor to New Haven Folding Chair Company, New Haven, Conn. Folding chair.....	Oct. 11, 1875	392	128	8	628
168, 853	Same.....	Oct. 19, 1875	544	178	8	658
169, 968	Same.....	Nov. 16, 1875	647	202	8	834
158, 834	Darby, George W., Hamilton, Ohio. Ruffler for sewing-machines.....	Jan. 19, 1875	465	156	7	104
159, 020	Darby, George W., Hamilton, Ohio. Ruffler for sewing-machines.....	Jan. 26, 1875	670	218	7	137
161, 210	Darche, Pierre, San Francisco, Cal. Fruit-jar.....	Mar. 23, 1875	893	293	7	497
158, 688	Darcy, Thomas F., New York, N. Y. Top-joint for vehicles.....	Jan. 12, 1875	314	107	7	68
	Darling, Augustus L. (See Darling, George S. and Augustus L.)					
170, 065	Darling, George H., Cray's Mills, N. Y. Water-wheel.....	Nov. 16, 1875	735	233	8	846
163, 639	Darling, George S. and Augustus L., Watertown, N. Y. Sewing-machine.....	May 25, 1875	886	279 280	7	894
	Darling, John A. (See Grinstead & Darling.)					
6, 443	Darling, Samuel, Providence, R. I. Inkstand..... (Reissue.)	May 25, 1875	1053	333	7	916
6, 574	Same..... same..... (Reissue.)	Aug. 3, 1875	253	76	8	235
160, 171	Same..... same.....	Feb. 23, 1875	895	295	7	327
164, 721	Same..... same.....	June 22, 1875	843	274	7	1072
169, 152	Same..... same.....	Oct. 26, 1875	818	265	8	703
162, 805	Darling, William H., New York, assignor of one-half interest to John Ardry, Brooklyn, N. Y. Seat-lock.....	May 4, 1875	64	21	7	755
	Darling, William P., et al. (See Cooper, Edward A., assignor.)					
166, 192	Darnall & Womack. (See Starnes, Philip S., assignor.)					
169, 967	Darneal, Herve, San Francisco, Cal. Game-board.....	Aug. 3, 1875	10	4	8	200
	Darnoby, William F., assignor to self and Edward B. Stahlman, Nashville, Tenn. Composition for soap.....	Nov. 16, 1875	646	.....	8	834
169, 525	Darrach, Samuel A., Orange, N. J. Cherry-stoner.....	Nov. 2, 1875	181	61	8	759
167, 876	Darragh, Bernard, Franklin, Pa. Carpet-stretcher.....	Sept. 21, 1875	472	149	8	489
163, 921	Dart, Albert, Rockville, Conn. Cultivator.....	June 1, 1875	69	23	7	940
166, 508	Daschbach, Edward J., Pittsburgh, Pa. Carbureter.....	Aug. 10, 1875	321	97	8	252
159, 566	Dathis, Leon, Paris, France. Apparatus for transferring goods in bulk.....	Feb. 9, 1875	319	104	7	336
	Daugherty, Oliver R. (See Kepple, John, assignor.)					
167, 439	Davenport, Charles E., and William M. Porter, Washington, D. C. Hinged mast for boats.....	Sept. 7, 1875	54	16	8	413

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164, 979	Davenport, John, Stamford, Conn. Metal cap for posts.....	June 29, 1875	1096	353	7	1112
	Davenport, John L., <i>et al.</i> (See Stout, George H., assignor.)					
163, 978	Davenport, Samuel W., Somerville, N. J. Air-heating furnace.....	June 1, 1875	115	39	7	947
6, 532	Davenport, Stephen S., Hallowell, Me. Steam-engine..... (Reissue)	July 6, 1875	255	76	8	43
167, 509	Davey, Henry, Leeds, England. Steam-engine.....	Sept. 7, 1875	112	35	8	422
	David, George F. (See Gale & David.)					
167, 228	David, George F., and Charles Wilding, Indianapolis, Ind. Grain-car door.....	Aug. 31, 1875	1037	322	8	378
159, 083	David, Henry R., New York, N. Y. Electrical indicator for letter-boxes.....	Jan. 26, 1875	724	239	7	146
168, 236	David, Jacob, Brooklyn, N. Y. Blind-awning.....	Sept. 28, 1875	818	260	8	545
158, 689	Davids, Garret B., assignor to self and Talbot Denmead, Baltimore, Md. Iron column.....	Jan. 12, 1875	315	107	7	68
161, 884	Same..... Disintegrating-mill.....	Mar. 16, 1875	594	193	7	448
163, 364	Davidson, Minter H., Pruntytown, W. Va. Railway-switch.....	May 18, 1875	619	198	7	851
166, 687	Davidson, Thomas L., Worth County, Missouri. Portable fence.....	Aug. 17, 1875	496	151	8	286
169, 153	Davies, Daniel E., Dundaff, Pa. Dumping-wagon.....	Oct. 26, 1875	819	266	8	703
8, 019	Davies, Henry J., Brooklyn, N. Y. Combined clock and mirror frame..... (Design)	Jan. 26, 1875			7	133
159, 160	Same..... Clock frame or case.....	Jan. 26, 1875	789	259	7	155
161, 211	Same..... Clock-case.....	Mar. 23, 1875	893	293	7	497
6, 432	Davies, Henry J., and Walter D., Brooklyn, N. Y., assignors to Bennett & Smith. Card- ing-engine for making bats for felted fabrics..... (Reissue)	May 18, 1875	804	254	7	875
167, 310	Davies, Henry J. and Walter D., assignors to James G. Bennett and Andrew H. Smith, Brooklyn, N. Y. Felt fabric.....	Aug. 31, 1875	1105	348	8	388
	Davies, Joshua. (See Duck, Simeon, assignor.)					
164, 152	Davies, Richard H., Boundbrook, N. J. Spice-cabinet.....	June 8, 1875	297	102	7	982
159, 021	Davies, Thomas, Cincinnati, Ohio. Target for surveyors.....	Jan. 26, 1875	671	219	7	131
	Davies, Walter D. (See Davies, Henry J. and Walter D.)					
	Same..... same..... (Reissue.)					
	Davis, & Co., William C. (See Davis, William C., assignor)..... (Design)					
	Davis, & Son, James. (See Wilmarth, Moses P., assignor.)					
170, 530	Davis, Abram F., Liscomb, Iowa. Hame.....	Nov. 30, 1875	1198	378	8	925
165, 460	Davis, Adolphus W., Dwight, Ill. Harrow.....	July 13, 1875	352	103	8	63
161, 011	Davis, Albert J., Prairie City, Iowa. Potato-harvester.....	Mar. 23, 1875	713	235	7	473
160, 309	Davis, Albert M., Jerseyville, Ill. Colter.....	Mar. 2, 1875	46	17	7	355
	Davis, Augustus B., Philadelphia, Pa. Scale-beam..... (Extension)	Feb. 25, 1875			7	515
	Same..... Weighing apparatus..... (Extension)	Feb. 25, 1875			7	515
6, 346	Same..... same..... (Reissue)	Mar. 23, 1875	1011	330	7	512
6, 347	Same..... same..... (Reissue)	Mar. 23, 1875	1013	330	7	512
163, 640	Davis, Calvin B., Cassadaga, N. Y. Lathe-dog.....	May 25, 1875	887	289	7	894
163, 750	Davis, Charles, jr., Portland, Me. Bill-file.....	May 25, 1875	977	309	7	916
161, 596	Davis, David W. and Samuel H., Detroit, Mich. Preparing fish for market.....	Apr. 6, 1875	8	3	7	570
171, 358	Davis, Ebenezer R., Detroit, Mich. Machine for trimming and punching roofing-slate.....	Dec. 12, 1875	687	227	8	1057
	Davis, Francis N. (See Thompson, Judson S., assignor.)					
166, 193	Davis, Frank E., assignor to self and Israel C. Mayo, Gloucester, Mass. Rowlock.....	Aug. 3, 1875	11	4	8	200
162, 038	Davis, Frederick J., Newport, Vt. Block-lock for shoe-lasts.....	Apr. 13, 1875	396	134	7	635
164, 722	Same..... Foot-power laster.....	June 22, 1875	844	274	7	1072
	Davis, Fremont D. (See Wilhelm, Henry, assignor.)					
	Davis, George G., <i>et al.</i> (See Davis & Stone, assignors.)					
	Davis, George L., <i>et al.</i> (See Davis & Stone, assignors.)					
166, 917	Davis, George W., assignor of one-half interest to Charles W. Lewis, Boston, Mass. In- sect-destroying compound.....	Aug. 24, 1875	723		8	327
160, 510	Davis, Gustavus L., Haverhill, Mass. Lady's shoe.....	Mar. 9, 1875	242	83	7	392
161, 103	Same..... Shoe.....	Mar. 23, 1875	802	263	7	484
162, 535	Davis, Henry A., London, England. Safety apparatus for lifts or hoists.....	Apr. 27, 1875	901	288	7	713
160, 064	Davis, Hilar D., and Joseph M. Stone, assignors to George L. Davis, John A. Wiley, Joseph M. Stone, George G. Davis, Joseph H. Stone, and James H. Davis, North Andover, Mass. Loom.....	Feb. 23, 1875	823	270	7	317
	Davis, Jacob, <i>et al.</i> (See Bickel, John G., assignor)..... (Reissue)					
	Same..... (See Duman, Stephen A., assignor.)					
6, 335	Davis, Jacob W., Reno, Nev., assignor to self and Levi Straus & Co., San Francisco, Cal. Pantaloons, &c..... (Reissue)	Mar. 16, 1875	688	226	7	461
	Davis, James H., <i>et al.</i> (See Davis & Stone, assignors.)					
161, 010	Davis, James M., assignor to Joseph S. Smith, Bangor, Me. Extension-ladder.....	Mar. 23, 1875	712	235	7	473
167, 648	Davis, James S., assignor to self and George R. Hurd, Monroe, Mich. Dinner-box.....	Sept. 14, 1875	250	78	8	448
	Davis, J. L., <i>et al.</i> (See Stevens, John, assignor.)					
	Davis, John, administrator. (See Murkland, William, assignor)..... (Extension)					
171, 102	Davis, John C., assignor of one-half interest to Thomas J. Hayward and Edward L. Bart- lett, Baltimore, Md. Extension-cap for piles.....	Dec. 14, 1875	421	140	8	1014
158, 473	Davis, John E., assignor of one-half interest to George Baldwin, Bradford, Vt. Ox-shoe.....	Jan. 5, 1875	108	36	7	24
158, 919	Davis, John R., and James R. Mills, Bloomfield, Iowa. Earth-auger.....	Jan. 19, 1875	548	182	7	114
170, 437	Same..... Earth-boring apparatus.....	Nov. 30, 1875	1114	351	8	913
	Davis, Joseph H. (See Shepard, George A., assignor)..... (Reissue)					
	Davis, Joseph M. (See Cutter, James S., assignor.)					
167, 311	Davis, Leonard L., Springfield, Mass. Bench-plane.....	Aug. 31, 1875	1105	348	8	388
158, 690	Davis, Levis H., West Chester, Pa. Pitman-connection.....	Jan. 12, 1875	315	107	7	68
	Davis Metallic Wheel Manufacturing Company. (See Davis, Robert W., assignor.)					
	Same..... (See Richardson, Clifton W., assignor.)					
165, 072	Davis, Michael F., Portland, Me. Rowlock.....	June 29, 1875	1175	378	7	1123
159, 022	Davis, Morgan, Covington, Ind. Fire-escape ladder.....	Jan. 26, 1875	671	219	7	138
170, 824	Davis, Nelson D., Caton, N. Y. Coupling for chain-pump buckets.....	Dec. 7, 1875	153	51	8	971
	Davis, Nicholas A. (See Tribble & Davis.)					
6, 334	Davis, Obadiah, Battle Creek, Mich. Sash-balance..... (Reissue)	Mar. 16, 1875	688	226	7	461
167, 748	Davis, Omar, Bourbon, Ind. Wash-boiler.....	Sept. 14, 1875	337	108	8	461
160, 578	Davis, Orson A., Washington, Cal. Water-elevator or chain-pump.....	Mar. 9, 1875	299	102	7	401
	Davis, Philip F. (See Cornelius, Wilber F., assignor.)					
	Davis, Richard A. (See Landon, Reuben A., assignor.)					
	Davis, Robert C. (See Brown & Davis.)					
170, 996	Davis, Robert W., Flushing, assignor to Davis Metallic Wheel Manufacturing Company, New York, N. Y. Wheel-hub.....	Dec. 14, 1875	327	108	8	1001
	Davis, Samuel H. (See Davis, David W. and Samuel H.)					
165, 800	Davis, Samuel H., and Howard M. Du Bois, Philadelphia, Pa. Lubricator.....	July 20, 1875	657	202	8	123
161, 365	Davis, Samuel T., Washington, D. C. Hinge.....	June 15, 1875	512	169	7	1019
169, 780	Davis, Samuel W., Brasher, N. Y. Endless chain for horse-powers.....	Nov. 9, 1875	464	146	8	803
	Davis, Silas A. (See Young & Davis.)					
159, 648	Davis, Stephen S., Chicago, Ill., assignor to Pollock Barbour, Louisville, Ky. Farm-gate.....	Feb. 9, 1875	379	126	7	245
	Davis, Thomas S. (See Payne, Morgan, assignor.)					
160, 752	Davis, Thomas S., Jersey City, N. J. Piston.....	Mar. 16, 1875	478	156	7	432

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158, 785	Davis, Valentin E., Palmer, Ill. Vehicle-seat	Jan. 19, 1875	418	141	7	98
	Davis, W. Ellery, administrator. (See Whitcomb & Rawson.)					
163, 641	Davis, William, Petaluma, Cal. Spring trace-carrier and back-loop	May 25, 1875	888	220	7	894
8, 047	Davis, William C., Cincinnati, Ohio, assignor to self, William K. Boal, and Samuel P. Cheseldine. Agricultural boiler	Feb. 9, 1875			7	223
8, 563	Davis, William C., assignor to William C. Davis & Co., Cincinnati, Ohio. Heating-stove	Aug. 17, 1875			8	281
162, 806	Davis, William M., Cleveland, Ohio. Galvanic battery	May 4, 1875	65	21	7	755
161, 212	Davison, Darius, New York, N. Y. Furnace for gas-retorts	Mar. 23, 1875	894	293	7	497
162, 807	Same..... Breech-loading ordnance	May 4, 1875	67	21	7	756
169, 628	Same..... Process and apparatus for decarbonizing gas-retorts	Nov. 9, 1875	303	98	8	783
170, 531	Dawes, William, Leeds, England. Converting motion	Nov. 30, 1875	119	378	8	925
164, 531	Dawley, Ananias W., Mankato, Minn. Centrifugal honey-extractor	June 15, 1875	660	214	7	1038
167, 510	Dawson, Benjamin F., New York, N. Y. Galvanic battery	Sept. 7, 1875	113	36	8	422
163, 161	Dawson, John A., Boston, Mass., assignor to Florentine A. Jones, Schaffhausen, Switzerland. Mainspring for watches	May 11, 1875	413	134	7	808
165, 407	Dawson, Paul R., Brenham, Tex. Bale-tie	July 13, 1875	277	82	8	53
162, 536	Dawson, Walter, and James Hughes, Scranton, Pa. Steam-boiler furnace	Apr. 27, 1875	902	288	7	713
6, 707	Day, Austin G., New York, N. Y. Artificial caoutchouc	Oct. 19, 1875	734		8	684
6, 708	Same..... Process of forming artificial caoutchouc	Oct. 19, 1875	735		8	684
160, 579	Day, Benjamin J., Evansville, Ind. Hay and cotton press	Mar. 9, 1875	300	102	7	401
165, 481	Day, Charles M., Elizabeth, N. J. Ice-velocipede	July 13, 1875	353	103	8	64
	Day, Fred. K., et al. (See Crane, Thomas S., assignor.)					
164, 078	Day, George W., assignor to Manhattan Lime Hurdle Company, Haverhill, Mass. Lime-supporting tray for gas-purifying boxes	June 8, 1875	234	81	7	974
	Day, Sallie V. (See Day, Theodore D., assignor.)					
164, 815	Day, Selden A., Bowling Green, Ohio. Automatic heat-regulator and alarm	June 22, 1875	928	301	7	1083
161, 012	Day, Theodore D., assignor to Sallie V. Day, Elizabeth, N. J. Shirt-protector	Mar. 23, 1875	713	236	7	473
	Dayhuff, Andrew F., et al. (See Pruett, William, assignor.)					
161, 492	Dayton, Edwin, Meriden, Conn. Hose-joint	Mar. 30, 1875	1192	383	7	542
164, 816	Same..... Hose-coupling	June 22, 1875	930	301	7	1083
168, 972	Dayton, Henry G., assignor to Elliot P. Gleason, Maysville, Ky. Pocket disinfecter and inhaler	Oct. 19, 1875	628	208	8	670
169, 781	Dayton, Henry G., Maysville, Ky. Life-preserver	Nov. 9, 1875	464	147	8	803
165, 073	Dayton, John A., Brooklyn, N. Y. Machine for polishing moldings	June 29, 1875	1176	378	7	1123
165, 074	Same..... Feeding device for polishing-machines	June 29, 1875	1177	379	7	1123
	Dayton Machine Company. (See Aldrich, Wales, assignor.)					
167, 994	Deacon, George F., Liverpool, England. Apparatus for indicating and recording the velocity of water in pipes	Sept. 21, 1875	560	{ 180 } { 181 }	8	502
165, 801	Deacon, Henry, Widens, England. Manufacture of chlorine	July 20, 1875	658		8	124
165, 802	Same..... same	July 20, 1875	659		8	124
	Deacon, William H. (See Hill & Deacon)					
168, 884	Dealy, Paul K., St. John, Canada. Apparatus for cleaning locomotive ash-pans	Oct. 19, 1875	544	178	8	658
6, 570	Dean, Andrew B., Louisville, Ky. Pavement	Aug. 3, 1875	249		8	234
161, 013	Same..... same	Mar. 23, 1875	714		7	473
161, 213	Dean, Asabel H., Philadelphia, Pa. Bench-plane	Mar. 23, 1875	895	294	7	497
	Dean, Charles F. (See Wren & Barker, assignors)					
163, 642	Dean, George D., Newark, N. J. Pipe-wrench	May 25, 1875	888	{ 220 } { 231 }	7	894
6, 817	Dean, James C., Chicago, Ill., assignor to Samuel S. White, Philadelphia, Pa. Dental hammer	Dec. 21, 1875	790	261	8	1071
	Dean, William B., et al. (See Reynolds, William L., assignor.)					
	Dearing, Fountain F. (See Mickle & Dearing.)					
167, 440	Deatherage, Washington, Galesburgh, Ill. Hog-trap	Sept. 7, 1875	55	17	8	414
	Deavitt, Thomas J. (See Stimson, Enos, assignor.)					
6, 342	De Barry, James, Chicago, Ill. Key-check	Mar. 23, 1875	1009	329	7	511
166, 073	De Barry, James J., and Thorvald J. and Alexius T. Lundqvist, Brooklyn, N. Y. Basket for newspapers	July 27, 1875	932	288	8	173
166, 074	Same..... Letter-box	July 27, 1875	933	288	8	173
167, 312	Same..... same	Aug. 31, 1875	1106	348	8	3-8
165, 482	De Baun, Andrew N., Oradell, N. J. Boot-jack	July 13, 1875	353	103	8	64
161, 764	De Beaumont, Alexandre, assignor of one-half interest to John Weidig and Charles Yockel, Philadelphia, Pa. Automatic regulating device for steam-engines	Apr. 6, 1875	150	52	7	590
158, 363	De Boucherville, George B., Quebec, Canada. Propulsion of vehicles	Jan. 5, 1875	13	4	2	10
158, 920	De Butt, John, Philadelphia, Pa. Machine for trimming and beading sheet-metal	Jan. 19, 1875	549	{ 182 } { 183 }	7	115
160, 652	Same..... Water fire-box	Mar. 9, 1875	364	123	7	410
	De Caidry, William A. (See Walter, Rudolph L., assignor.)					
162, 130	Dechert, Howard P., New York, N. Y. Electroplating with nickel	Apr. 27, 1875	977		7	724
164, 270	Same..... Galvanic battery	June 8, 1875	409	137	7	996
165, 312	Same..... Pole for galvanic batteries	July 6, 1875	153	47	8	30
	Dechert, Robert P., trustee. (See Cresson, Charles M., assignor.)					
165, 985	Decker, George H., Belleville, N. J. Marking-board for pin-pools	July 27, 1875	852	262	8	162
169, 969	Decker, Henry, Orange, N. J. Wagon-brake	Nov. 16, 1875	647	203	8	834
161, 765	Decker, James L., Wayne, Mich. Bed-bottom	Apr. 6, 1875	151	52	7	590
	Decker, John G., et al. (See Leach, Matthew, assignor.)					
158, 405	Decker, Peter H., Morsston, N. Y. Bed-pipe for lead-corroding houses	Jan. 5, 1875	47	17	7	15
	Decker, Theodore. (See Weaver & Decker.)					
161, 597	Decker, William, assignor of one-half interest to Lemuel G. Trott, Manchester, Mass. Folding table	Apr. 6, 1875	9	3	7	570
164, 723	Decker, William J., New York, N. Y. Electric toy	June 22, 1875	845	274	7	1072
161, 766	Dederick, Peter K., Albany, N. Y. Baling-press	Apr. 6, 1875	151	52	7	590
170, 997	Same..... same	Dec. 14, 1875	328	109	8	1001
170, 998	Same..... same	Dec. 14, 1875	329	109	8	1001
170, 999	Same..... same	Dec. 14, 1875	331	110	8	1001
171, 000	Same..... Horse-power	Dec. 14, 1875	331	110	8	1002
171, 001	Same..... same	Dec. 14, 1875	332	110	8	1002
171, 215	Same..... Bale-tie	Dec. 21, 1875	561	184	8	1040
	Deere & Co. (See Moore & Curkendall, assignors.)					
162, 039	Deetz, Edward, Philadelphia, Pa. Bedstead-fastening	Apr. 13, 1875	397	134	7	635
163, 053	Deey, E. Mortimer, New York, N. Y. Fire-place	May 11, 1875	314	101	7	795
164, 153	Defibaugh, Daniel L., Bedford, Pa. Wagon-brake	June 8, 1875	298	102	7	982
171, 216	De Forest, Benjamin D., Mount Vernon, N. Y. Dancing toy	Dec. 21, 1875	561	185	8	1040
164, 331	De Forest, David W., Brooklyn, N. Y. Lump-tobacco machine	Mar. 30, 1875	1031	336	7	522
170, 715	Same..... Sled-propeller	Dec. 7, 1875	57	17	8	958

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	De Forest, Henry S. (<i>See</i> Van Slyck & De Forest).....(Design.)					
	De Forest, Sarah A., <i>et al.</i> (<i>See</i> De Forest, Thomas B., assignor.)					
162, 040	De Forest, Thomas B., Birmingham, Conn. Machine for setting carriage-springs.....	Apr. 13, 1875	397	{ 134 135 }	{ 7 7 }	635
166, 918	De Forest, Thomas B., assignor to Sarah A. De Forest and John S. Passenger, Birmingham, Conn. Machine for setting carriage-springs.....	Aug. 24, 1875	724	224	8	327
159, 307	Defrenne, Hector J., Green Bay, Wis. Rolling shutter.....	Feb. 2, 1875	56	21	7	192
159, 649	De Garis, Alfred, New York, N. Y. Apparatus for feeding fowls.....	Feb. 9, 1875	380	126	7	245
165, 313	Degraw, George H., assignor to self and Reuben C. Grover, Brooklyn, N. Y. Machine for cutting shingles.....	July 6, 1875	154	47	8	30
167, 649	Degroat, Daniel S., Newburgh, N. Y. Meat-cutter.....	Sept. 14, 1875	251	78	8	448
160, 653	De Guion, Richard V., Jersey City, N. J. Apparatus for supplying oil to lamps.....	Mar. 9, 1875	366	124	7	410
	De Guire, Jasper N. (<i>See</i> Bright & De Guire.)					
168, 237	De Hart, Andrew M., Reading, Pa. Knife-polisher.....	Sept. 28, 1875	819	260	8	545
	De Hart, Charles A. (<i>See</i> Palmer, Jesse, assignor.)					
169, 782	Dehlinger, Christian, assignor of one-half interest to Frank Dehlinger, Buffalo, N. Y. Vent-faucet.....	Nov. 9, 1875	465	147	8	803
	Dehlinger, Frank. (<i>See</i> Dehlinger, Christian, assignor.)					
162, 537	Dehuff, Abraham, York, Pa. Car-coupling.....	Apr. 27, 1875	903	289	7	714
	De Huff, John L. (<i>See</i> Watson & De Huff.)					
169, 526	De Huff, John L., assignor to Joseph Watson, Everett, Mass. Oscillating printing-press.....	Nov. 2, 1875	182	61, 62	8	760
	Dejarnatt, Robert L. (<i>See</i> Wilcox & Dejarnatt.)					
	Dejean, Alfred R. (<i>See</i> Allain & Dejean.)					
169, 783	De la Bastie, François B. A. R., Paris, France. Tempering glass and furnace therefor ..	Nov. 9, 1875	466	{ 147 148 }	{ 8 8 }	803
168, 885	Delamater, Almon, Townville, Pa. Washing-machine.....	Oct. 19, 1875	545	179	8	658
	Delamater, Cornelius H. (<i>See</i> Reynolds, George H., assignor.)					
	Delamater, Cornelius H., <i>et al.</i> (<i>See</i> Reynolds, George H., assignor.)					
	Delamater, Cornelius H., <i>et al.</i> (<i>See</i> Reynolds & Miller, assignors.)					
	De la Montagnie, Albert, <i>et al.</i> (<i>See</i> Jones, Gilbert D., assignor.)					
161, 214	Deland, Franklin A., Memphis, assignor of one-half interest to Abner C. Harrington, Lapeer, Mich. Reamer for shot-guns.....	Mar. 23, 1875	896	294	7	497
165, 156	Delany, Patrick B., Jersey City, N. J. Automatic telegraph.....	July 6, 1875	10	3	8	10
165, 157	Same..... Telegraph-relay.....	July 6, 1875	10	4	8	10
167, 995	Delaplaine, Theodore C., assignor of one-half interest to Henry N. Etchison, Frederick, Md. Flour-mill.....	Sept. 21, 1875	561	181	8	502
	Delatour, J. J., <i>et al.</i> (<i>See</i> Wilcox, Harlow M., assignor.)					
	Del Bubba, Mario. (<i>See</i> Ara & Del Bubba.)					
163, 003	De Leidi, Raphael, Brooklyn, N. Y. Device for transmitting motion.....	May 11, 1875	266	86	7	790
162, 041	Delmage, Christopher L., Woonsocket, R. I. Fire-extinguisher.....	Apr. 13, 1875	401	135	7	636
159, 502	De Long, Baltis, Washington, D. C. Toy gun.....	Feb. 9, 1875	259	84	7	228
170, 438	Delsseaux, Jean P., Milbrae, Cal. Harvester.....	Nov. 30, 1875	1115	351	8	914
159, 308	Demarest, David, New York, N. Y. Hitch-hook for street-cars.....	Feb. 2, 1875	56	21	7	192
165, 314	De Meritens, Auguste, Paris, France. Process of tanning hides.....	July 6, 1875	155		8	30
162, 042	De Mestre, Adrien, Bordeaux, France. Machine for twisting wire.....	Apr. 13, 1875	402	{ 135 136 }	{ 7 7 }	636
166, 075	Same..... Machine for making wire caps.....	July 27, 1875	934	289	8	173
166, 076	Same..... Machine for finishing wire caps	July 27, 1875	935	289	8	173
166, 077	Same..... Machine for applying wire caps to bottles.....	July 27, 1875	936	289	8	173
	De Mier, John R. (<i>See</i> Keys & De Mier.)					
158, 575	Deming, David A., and Sterling W. Wickes, assignors to H. C. Silsby, Seneca Falls, N. Y. Journal-box.....	Jan. 12, 1875	212	72	7	54
159, 023	Same..... Rotary engine.....	Jan. 26, 1875	673	219	7	138
166, 078	Deming, Ferdinand, Waterbury, Conn. Feeding device for punching-machines.....	July 27, 1875	937	299	8	174
169, 784	Same..... same.....	Nov. 9, 1875	469	{ 148 149 }	{ 8 8 }	803
8, 581	Deming, Joseph C., Norfolk, Va. Medal.....(Design).....	Aug. 24, 1875			8	322
8, 593	Same..... Flag.....(Design).....	Aug. 31, 1875			8	364
170, 621	Deming, Philander, Albany, N. Y. Type-writing machine.....	Nov. 30, 1875	1289	407	8	937
	De Monthureux Gas Company Ragot. (<i>See</i> Nicholson, John, jr., assignor.)					
6, 800	Demorest, W. Jennings, New York, N. Y., assignor, by mesne assignments, to Samuel S. White, Philadelphia, Pa. Treadle.....(Reissue).....	Dec. 14, 1875	540	177	8	1029
165, 483	Demoss, James, Somerset, Ind. Culinary vessel.....	July 13, 1875	354	104	8	64
	Dempsey Wicker Covered Glassware Company. (<i>See</i> Fort, John N., assignor.)					
	Dempsey Wicker Covered Glassware Company. (<i>See</i> Morton, John S., assignor.)					
170, 348	Dempster, Robert, assignor of one-half interest to John M. Comstock, Buffalo, N. Y. Steam-boiler.....	Nov. 23, 1875	1016	318	8	892
163, 851	Demuth, Adolph, New York, N. Y. Cartesian toy.....	June 1, 1875	15	5	7	932
7, 987	Demuth, Isaac, New York, N. Y. Smoking-pipe.....(Design).....	Jan. 5, 1875			7	5
171, 554	Same..... Package for tobacco, pipes, and other articles.....	Dec. 28, 1875	885	290	8	1092
165, 075	Denéef, Joseph, and Félix Wilkin, Liege, Belgium. Invalid-bedstead.....	June 29, 1875	1178	379	7	1123
	Denham, Edward. (<i>See</i> Denham, Thomas M. and Edward.)					
158, 474	Denham, Thomas M. and Edward, New Bedford, Mass. Shirt-bosom.....	Jan. 5, 1875	109	37	7	24
	Denio, A. O., <i>et al.</i> (<i>See</i> Getz, Joseph C., assignor.)					
	Denio, Asa O. (<i>See</i> Getz, Joseph C., assignor.)					
	Denio, Elon C., <i>et al.</i> (<i>See</i> Brinkerhoff, Jacob, assignor.).....(Reissue).....					
6, 266	Denio, Elon C., and George R. Babcock, New Hartford, N. Y. Spading and other forks.....(Reissue).....	Feb. 2, 1875	238	78	7	217
161, 598	Denio, Elon C., Auburn, N. Y. Ferrule for tool-handles.....	Apr. 6, 1875	10	4	7	570
168, 832	Denio, William L., and William E. Neer, Rochester, N. Y. Key-ring.....	Oct. 19, 1875	501	163	8	651
165, 549	Denison, Amos B., Guilford, Vt. Bracket-stand.....	July 13, 1875	412	124	8	73
	Deniscn, Charles H., New York, N. Y. Felly-machine.....(Extension).....	Feb. 18, 1875			7	515
163, 582	Same..... Machinery for uniting paper and cloth.....	May 25, 1875	833	263	7	887
165, 803	Same..... Paper-collar machine.....	July 20, 1875	660	202	8	124
167, 156	Same..... Machine for cutting paper collars and cuffs.....	Aug. 31, 1875	976	304	8	370
	Denlinger, B. B., <i>et al.</i> (<i>See</i> Brown, Andrew, assignor.)					
	Denlinger, J. B., <i>et al.</i> (<i>See</i> Brown, Andrew, assignor.)					
163, 852	Denman, William S., and Mary E. Barfoot, El Paso, Ill. Lid-holding attachment to stove-pipes.....	June 1, 1875	16	5	7	932
	Denmead, Talbott. (<i>See</i> Davids, Garret B., assignor.)					
	Denne, Mark C. (<i>See</i> Denne, Thomas J. and Mark C.)					
166, 509	Denne, Thomas J., Croydon, and Mark C. Denne, New Cross, England. Machine for sewing on the soles of boots and shoes.....	Aug. 10, 1875	321	97	8	252
162, 906	Dennen, Augustus M., and Casey Newhouse, Stockton, Cal. Spring bed-bottom.....	May 4, 1875	156	50	7	767

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 829	Dennett, Herbert E., Boston, Mass. Boot and shoe fastening.....	Sept. 21, 1875	428	136	8	482
158, 475	Denney, Samuel L., Gap, Pa. Device for opening and closing furnace-doors.....	Jan. 5, 1875	110	37	7	24
166, 266	Same..... Washing-machine.....	Aug. 3, 1875	75	23	8	209
160, 085	Dennick, Lyman L., Syracuse, N. Y. Measuring-faucet.....	Feb. 23, 1875	824	171	7	317
171, 507	Dennis, Jonathan, jr., Washington, D. C. Dissected picture and letter block.....	Dec. 28, 1875	846	277	8	1086
	Dennis, Joseph S., et al. (See Betts, Lewis F., assignor.)					
168, 379	Dennis, Lloyd B., Sandusky, Ohio. Circuit-closer for railway-signals.....	Oct. 5, 1875	53	19	8	572
168, 461	Dennison, Albert S., Carthage, assignor of one-half interest to John D. Huntington, Watertown, N. Y. Paper bag.....	Oct. 5, 1875	125	43	8	583
6, 780	Dennison, Benjamin L., Brunswick, Me. Machine for making cushions for finger-ring boxes..... (Reissue).	Dec. 7, 1875	244	83	8	983
161, 493	Same..... same.....	Mar. 30, 1875	1192	383	7	542
165, 158	Dennison, Eliphalet W., Boston, Mass. Metal or paper gage.....	July 6, 1875	11	4	8	10
170, 664	Same..... Paper box.....	Dec. 7, 1875	9	3	8	952
	Dennis, n, Robert. (See Lesh, James, assignor.)					
	Dennison, J., et al. (See Dennison, John N., assignor.)					
168, 973	Dennison, John N., Newark, N. J. Boiler for steam fire-engines.....	Oct. 19, 1875	629	208	8	670
170, 532	Dennison, John N., Newark, N. J., assignor of three-fourths interest to J. Dennison, R. H. Johnson, and William W. Russell. Portable water-works.....	Nov. 30, 1875	1199	379	8	925
165, 315	Denny, George W., New Haven, Conn. Skirt-elevator.....	July 6, 1875	156	47	8	30
163, 365	De Nottbeck, Gabrielle, New York, N. Y. Reciprocating churn.....	May 18, 1875	620	198	7	851
164, 724	Denson, James M., Columbus, Ga. Turbine water-wheel.....	June 22, 1875	845	274	7	1072
	Dent, William, et al. (See Kingsbury, Andrew B., assignor.)					
161, 215	Denton, Benjamin J., Oswego, N. Y. Peat-cutter.....	Mar. 23, 1875	896	294	7	497
168, 326	Denton, Charles, assignor of one-half interest to Andrew J. Hodges, Peoria, Ill. Harvester.....	Oct. 5, 1875	10	4	8	566
	De Pew, Aaron V. (See Briggs & De Pew.)					
6, 326	De Puy, Alexander T., assignor to R. Hoe & Co., New York, N. Y. Printer's galley. (Reissue).....	Mar. 9, 1875	457	151	7	422
6, 327	Same..... same..... (Reissue).....	Mar. 9, 1875	458	151	7	422
6, 801	Same..... Printer's case..... (Reissue).....	Dec. 14, 1875	541	178	8	1029
169, 654	Same..... Printer's galley.....	Mar. 9, 1875	367	124	7	410
158, 406	De Quillfeldt, Charles, New York, N. Y. Bottle-stopper.....	Jan. 5, 1875	48	17	7	15
159, 803	Same..... Window-shade fixture.....	Feb. 16, 1875	549	182	7	273
167, 650	Same..... Machine for bending wire frames of bottle-stoppers.....	Sept. 14, 1875	251	78	8	448
	Deremer, John M. (See Heisler & Deremer.)					
169, 239	Dering, George E., Lockleys, near Welwyn, England. Railway-rail joint.....	Oct. 26, 1875	892	290	8	714
	Dering, H. A., et al. (See Peeler, Abner, assignor.)					
164, 271	Desbrough, George, assignor to Alexander H. Chapin, Utica, N. Y. Windmill.....	June 8, 1875	410	137	7	997
160, 511	Des Georges, Gabriel, Montreal, Canada. Apparatus for the storage of petroleum.....	Mar. 9, 1875	243	83	7	392
160, 310	Deshler, Edward, Allentown, Pa. Brick-machine.....	Mar. 2, 1875	47	17, 18	7	355
	De Silets, Charles. (See Robinson, Clark, assignor.)					
170, 716	Despaquis, Pierre A., Paris, France. Process of preparing photo-plates for printing in fatty inks.....	Dec. 7, 1875	57	.....	8	958
	Detrick, William. (See Frey & Eichholtz, assignors)..... (Reissue.)					
	Detroit Stove Works. (See Carter, John V. B., assignor)..... (Design.)					
	Same..... (See Dwyer, James, assignor)..... (Design.)					
	Same..... (See Herrick, George W., assignor.)					
	Same..... (See Herrick, George W., assignor)..... (Reissue.)					
158, 576	Detwiler, Abram K. (See Detwiler, John Y. and Abram K.)					
170, 066	Detwiler, John Y. and Abram K., Toledo, Ohio. Tuck-marker for sewing-machines.....	Jan. 12, 1875	213	73	7	54
	Detwiller, Henry J., assignor to Herman A. Doster and Charles W. Roepper, Bethlehem, and William J. Taylor, Chester, Pa. Explosive compound.....	Nov. 16, 1875	736	.....	8	846
170, 067	Same..... Detonating railway-signal.....	Nov. 16, 1875	737	234	8	846
163, 751	Deutsch, Sigmund, Philadelphia, Pa. Overalls.....	May 25, 1875	978	310	7	906
167, 877	Devendorf, Lucien B., Utica, N. Y. Wagon-spring.....	Sept. 21, 1875	473	150	8	489
	Devine, Edward, et al. (See McWilliams, Michael, assignor.)					
165, 804	Devine, Edward, assignor to self and Michael McWilliams, Detroit, Mich. Metal-bending machine.....	July 20, 1875	662	203	8	124
	Devinney, Caleb D. (See Westwood, John T., assignor.)					
	Devoe, Benjamin G. (See Walker & Devoe.)					
171, 217	Devoe, Benjamin G., Kenton, and George R. Mease, Upper Sandusky, Ohio. Convertible revolving harrow.....	Dec. 21, 1875	562	185	8	1040
	Devoe Manufacturing Company. (See Miller, Herman, assignor)..... (Design.)					
162, 538	Devol, F. S., et al. (See Van Dusen, Charles, assignor.)					
168, 886	Devor, James R., Goshen, Ind. Mechanical movement.....	Apr. 27, 1875	903	289	7	714
165, 715	Devore, Levi M., Yellow Creek, Ill. Wire-fence barb.....	Oct. 19, 1875	546	179	8	658
168, 327	Dewald, Edward, Cayville, Kans. Windmill.....	July 20, 1875	578	176 } 177 }	8	112
	Dewald, Matthew J., Chicago, Ill. Coffee-pot.....	Oct. 5, 1875	11	4	8	566
	Dewar, John R. (See Fowler & Dewar.)					
170, 472	Deweese, Joseph R., Dayton, Ohio. Fastener for the meeting-rails of sashes.....	Nov. 30, 1875	1146	361	8	918
159, 804	Dewers, Edmund C., Towanda, Pa. Mowing-machine.....	Feb. 16, 1875	549	183	8	273
171, 270	Dewes, Abednego, Brooklyn, N. Y. Knife for cutting paper-collar blanks.....	Dec. 21, 1875	614	200	8	1047
	Dewey, Charles H. (See Dewey & Palmer, assignors.)					
	Same..... (See Palmer & Dewey, assignors.)					
161, 599	Dewey, Edmund H. (See Palmer & Dewey.)					
	Dewey, Edmund H., and Charles H. Palmer, New York, assignors to Charles H. Dewey, Brooklyn, N. Y. Steam-valve.....	Apr. 6, 1875	10	4	7	570
169, 680	Dewey, Hiram T., Brooklyn, N. Y. Sign-plate.....	Nov. 9, 1875	356	113	8	789
170, 825	Dewey, John J., Hartford, Vt., assignor to George S. Harwood and George H. Quincy, Boston, Mass. Feeding-apparatus for carding-machines.....	Dec. 7, 1875	153	51	8	971
163, 465	Dewey, Orville C., Wheeling, W. Va. Cotton-gin.....	May 18, 1875	705	225	7	863
166, 510	Dewey, Stanley M., New York, N. Y. Station-indicator.....	Aug. 10, 1875	323	98	8	252
	Dewey, Washington. (See Scofield, Edward S., assignor.)					
170, 533	Dewitt, James, Kansas City, Mo., assignor to self, John S. McCrum, Benjamin S. Henning, Henry J. Fisher, and Sanders Dewitt. Fire-proof paint.....	Nov. 30, 1875	1200	.....	8	926
165, 076	De Witt, John L., assignor of one-half interest to Nelson La Force, Gardner, Ill. Hay and cotton press.....	June 29, 1875	1179	379	7	1123
	Dewitt, Sanders, et al. (See Dewitt, James, assignor.)					
170, 159	Dewolf, Charles A., Wyoming, Ill. Wagon-body.....	Nov. 23, 1875	849	266	8	868
	Dewsnap, George W. (See Dimond, Alban F., assignor.)					
167, 878	Dexter, Albert J., Saint Louis, Mo. Copying-ink.....	Sept. 21, 1875	473	.....	8	489
165, 216	Dexter, John C., and Edgar V. Tanner, Florence, Mass. Skate.....	July 6, 1875	71	20	8	18
	Dexter Spring Company. (See Thompson, Orrin B., assignor.)					

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169, 970	Deymann, Henry, and Edward Melchers, Toledo, Ohio. Still	Nov. 16, 1875	648	203	8	834
162, 354	Deyo, John W., Baton Rouge, La. Bale-tie	Apr. 20, 1875	707	230	7	681
167, 313	Deyoe, Clifford P., assignor of one-half interest to Daniel R. Pratt, New York, N. Y. Railway-switch	Aug. 31, 1875	1107	348	8	389
169, 090	De Zeng, Henry L., Geneva, N. Y. Curtain-fixture	Oct. 26, 1875	765	248	8	695
169, 091	Same. Lamp-trimmer	Oct. 26, 1875	765	248	8	695
169, 785	Same. same	Nov. 9, 1875	471	149	8	804
	D'Heureuse, R. (See Schumacher, Gustav, assignor.)					
	Dibble, Andrew. (See Scott & Granger, assignors.)					
170, 242	Dibble, Andrew J., Franklin, assignor to self and David G. Landon, Delhi, N. Y. Butter-package	Nov. 23, 1875	925	288	8	878
168, 726	Dibble, Noah H., Chicago, Ill. Mariner's compass	Oct. 11, 1875	392	129	8	628
161, 869	Dibble, Theodore H., Trenton, N. J. Window-cornice	Apr. 13, 1875	259	86	7	617
161, 767	Dibel, Henry, Ridgeway, Pa. Running-gear for carriages and wagons	Apr. 6, 1875	152	53	7	591
	Dick & Church. (See Simpson, John, assignor.)					
6, 823	Dick, Andrew Hamilton, Canada, assignor to self, John Hall, and William K. Muir. Signal-light for locomotives	Dec. 28, 1875	985	319	8	1106
	Dick, Charles J. A. (See Giffard, Paul, assignor.)					
164, 677	Dick, Herman M., Shelby, Ohio. Mail-bag catch	June 22, 1875	799	262	7	1066
167, 074	Dick, James M., Buffalo, N. Y. Wool-drier	Aug. 24, 1875	871	272	8	348
	Dick, Lewis E. (See Munson & Dick.)					
170, 068	Dick, Robert, Buffalo, N. Y. Addressing-machine	Nov. 16, 1875	738	234	8	846
170, 069	Same. same	Nov. 16, 1875	740	{ 234 } { 235 }	8	846
	Dick, Thomas S. (See Ford, Thomas P., assignor.)					
168, 624	Dick, William A., Cleves, Ohio. Corn-husker	Oct. 11, 1875	308	100	8	616
166, 970	Dickenson, Joseph L., Hempstead, N. Y. Center-board	Aug. 24, 1875	775	239	8	334
168, 887	Dickerson, Henry J., Appleton, Wis. Combined shutter-worker, blind-slat adjuster, and sash-fastener	Oct. 19, 1875	546	179	8	658
169, 425	Dickerson, Samuel H., assignor to self, Benjamin F. Stanley, and William A. McCallum. Cincinnati, Ohio. Pipe-tongs	Nov. 2, 1875	96	30	8	748
168, 727	Dickerson, Theodore J., assignor of one-half interest to Christopher G. Gibbard, Auburn, N. Y. Wringer	Oct. 11, 1875	393	129	8	628
	Dickey, Andrew. (See Perry, Dickey & Liddle.)					
166, 349	Dickey, Julius C., Franklin, Pa. Oil-still	Aug. 3, 1875	148	46	8	220
	Dickey, T. B., et al. (See Stevens, John, assignor.)					
164, 532	Dickinson, Elbridge, Marshall, Mo. Scraper	June 15, 1875	661	214	7	1038
169, 240	Dickinson, Samuel C., Washington, D. C. Cloth-winding machine	Oct. 26, 1875	893	290	8	714
	Dickinson, William J. (See Hurlburt J. Burrell, assignor.)					
166, 856	Dickson, Gilbert J., Albany, N. Y. Locking-latch	Aug. 17, 1875	650	202	8	308
159, 650	Dickson, Joseph R., Tupelo, Miss. Bee-hive	Feb. 9, 1875	381	126	7	245
161, 391	Diebold, Charles, Lebanon, Pa. Tile-molding machine	Mar. 30, 1875	1091	354	7	530
170, 717	Same. Disintegrating furnace-slag	Dec. 7, 1875	59	17	8	958
	Diehl, Justus. (See Behning & Diehl.)					
168, 625	Diehl, William H. B., Richland Center, Pa. Harness	Oct. 11, 1875	309	100	8	616
159, 909	Dierker, Diedrich, Cincinnati, Ohio. Shaft-hanger	Feb. 16, 1875	646	214	7	286
6, 548	Dierkes, Henry A., New York, N. Y. Door-bell	July 20, 1875	767	235	8	139
170, 940	Dieterichs, Emil F., Philadelphia, Pa. Process of treating leather to make it water-repellent	Dec. 14, 1875	272		8	994
	Dietz, Gregor. (See Cohen & Dietz.)					
165, 550	Dietz, Robert E., New York, N. Y. Device for thawing frozen water-pipes	July 13, 1875	413	124	8	73
	Differential Gearing Company. (See Gordon, Myers, Telford & Hubbard, assignors.)					
133, 302	Dike, Edward G., New York. Laundry-register	May 18, 1875	563	180	7	844
164, 980	Dike, Solon, Detroit, Mich. Cotton-press	June 29, 1875	1097	354	7	1112
167, 511	Dilger, Theodore, and William R. Dunn, Alton, Ind., assignors to selves and Abraham N. Peckinpugh. Saw-mill head-block	Sept. 7, 1875	114	36	8	422
168, 380	Dilks, Joseph W., Washington, D. C. Means for raising and lowering propellers	Oct. 5, 1875	54	19	8	572
171, 271	Dillan, Francis, Walcott, N. Y. Bob-sled	Dec. 21, 1875	614	201	8	1047
171, 103	Dillaway, Joseph B., Boston, Mass. Hat-ventilator	Dec. 14, 1875	422	140	8	1014
167, 879	Dilley, John W., Macomb, Ill. Combined harrow and cultivator	Sept. 21, 1875	474	150	8	489
159, 161	Dillon, Ira B., Visalia, Cal. Sheep scratch-box	Jan. 26, 1875	790	259	7	155
169, 681	Same. same	Nov. 9, 1875	357	113	8	790
169, 092	Dillon, James Lynn, Mass. Pump-box	Oct. 26, 1875	766	249	8	695
	Dillon-Lee, Marmaduke R. S. (See Hart & Dillon-Lee.)					
	Dilworthy, William, Jr., et al. (See McConway, William, assignor.)					
8, 574	Dimmet, Arthur B., Bloomington, Ill. Picture frame	Aug. 24, 1875			8	322
	Dimmock, William C. (See Norris, Bowers & Dimmock.)					
	Dimock, George. (See Dimock, Ira and George.)					
159, 651	Dimock, Ira, Boston, and George Dimock, Leeds, Mass. Machine for printing spools	Feb. 9, 1875	382	127	7	245
159, 396	Dimock, Lucius, Northampton, Mass. Drop-wire for stopping mechanisms	Feb. 2, 1875	138	47	7	204
159, 397	Dimock, Martial, assignor to Clark Thread Company, Newark, N. J. Mold for casting bobbins	Feb. 2, 1875	139	48	7	204
160, 008	Same. Machine for casting bobbins	Feb. 23, 1875	757	251	7	308
171, 604	Dimond, Alban F., assignor of one-half interest to George W. Dewsnap, Pittsburgh, Pa. Circular-saw tooth	Dec. 28, 1875	932	305	8	1099
167, 441	Dimpfel, Frederick P., Baltimore, Md. Furnace	Sept. 7, 1875	56	17	8	414
160, 399	Dimpfel, George L., Benicia, Cal. Music-leaf turner	Mar. 2, 1875	124	45	7	367
165, 077	Dinkel, George, assignor to F. O. Matthiessen, and Wiechers Sugar Refining Company, Jersey City, N. J. Centrifugal machine	June 29, 1875	1180	379	7	1123
168, 723	Dinkel, George, and Walter R. Elmhurst, Jersey City, N. J. Machine for splitting hard sugar	Oct. 11, 1875	394	129	8	628
166, 194	Dinkey, James A., Nehemiah Enbody, and Samuel Bradley, Mauch Chunk, Pa. Time-signal for railways	Aug. 3, 1875	11	4	8	200
160, 512	Dinsmore, Alfred S., Boston, Mass. Sewing-machine	Mar. 9, 1875	244	84	7	392
165, 484	Dinsmore, John, Denver, Colo. Car-coupling	July 13, 1875	354	104	8	64
168, 381	Dippert, William, Des Moines, Iowa. Harness-pad press	Oct. 5, 1875	55	20	8	572
160, 753	Disbrow, Henry G., Newark, N. J., assignor to self and William A. Brown, Newton, Mass. Pouncing-block	Mar. 16, 1875	479	156	7	432
160, 260	Disney, Mordecai, Oakland, assignor of one-half interest to Henry C. Kibbee, San Francisco, Cal. Ticket-clasp	Mar. 2, 1875	6	3	7	350
159, 162	Disney, William, Cincinnati, Ohio. Wood pavement	Jan. 26, 1875	790	259	7	155
	Disston & Sons, Henry. (See Disston, Thomas S., assignor.)					
	Disston, Albert H., et al. (See Disston & Shoemaker, assignors.)					
162, 355	Disston, Charles, Philadelphia, Pa. Plasterer's trowel	Apr. 20, 1875	708	230	7	681
	Disston, Hamilton, et al. (See Disston & Shoemaker, assignors.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
158, 921	Disston, Henry, Philadelphia, Pa. Hand-saw.....	Jan. 19, 1875	551	183	7	115
163, 162	Same..... Saw-set.....	May 11, 1875	414	135	7	809
167, 996	Same..... Hand-saw.....	Sept. 21, 1875	562	181	8	503
169, 343	Same..... Saw-buck.....	Nov. 2, 1875	19	6	8	737
159, 652	Disston, Henry, and Charles T. Shoemaker, assignors to Henry, Hamilton, and Albert H. Disston, Philadelphia, Pa. Tempering steel plates.....	Feb. 9, 1875	385	127	7	246
163, 163	Disston, Thomas S., assignor to self and Henry Disston & Sons, Philadelphia, Pa. Saw-gummer.....	May 11, 1875	414	135	7	809
165, 805	Disston, Thomas S., Philadelphia, Pa. Rotary blower.....	July 20, 1875	662	203	8	124
161, 014	Dithridge & Co. (See Atterbury, Thomas B., assignor.)					
158, 922	Dittenhoefer, Henry, Bloomville, Ohio. Miter-box.....	Mar. 23, 1875	715	236	7	473
168, 558	Dittenhoefer, Myer, St. Denis, France. Comb.....	Jan. 19, 1875	551	183	7	115
6, 645	Dittman, Casper, Leacock, Pa. Railway-rail joint.....	Oct. 11, 1875	241	79	8	606
	Dittmar, Carl, assignor to Maria Dittmar, Boston, Mass. Explosive compound. (Re-issue).....	Sept. 14, 1875	412		8	472
	Dittmar, Maria. (See Dittmar, Carl, assignor)..... (Reissue.)					
165, 078	Dittrich, Robert, Pittsburgh, Pa. Extinguisher for oil-tanks.....	June 29, 1875	1181	380	7	1123
161, 104	Divine, John F. (See Lucas, Christian E., assignor.)					
	Dixon, Charles, Weedsport, N. Y. Wagon-seat fastening.....	Mar. 23, 1875	803	263	7	484
	Dixon, George B., et al. (See Dixon, Thomas N., assignor)..... (Design.)					
	Dixon, Hasty S. (See Klar & Dixon.)					
	Dixon, Henry P., et al. (See Dixon, Thomas N., assignor)..... (Design.)					
162, 382	Dixon, John W., West Manyunk, Pa. Apparatus for the manufacture of paper-pulp.....	Oct. 5, 1875	55	20	8	572
163, 643	Dixon, Joseph, New York, N. Y. Ventilation of railway-tunnels, &c.....	May 25, 1875	889	281	7	894
8, 065	Dixon, Thomson N., assignor to self and George B. and Henry P. Dixon, Philadelphia, Pa. Gas fire-log.....	Feb. 16, 1875			7	261
158, 407	Dixon, Stephen, Roseville, Ill. Seeding-machine.....	Jan. 5, 1875	48	17	7	16
158, 408	Same..... Combined stalk-cutter, plow, and seeding-machine.....	Jan. 5, 1875	49	17, 18	7	16
160, 311	Dixwell, George B., Boston, Mass. Reciprocating steam-engine.....	Mar. 2, 1875	48	18, 19	7	356
160, 400	Same..... Pyrometer for steam-engines.....	Mar. 2, 1875	126	46	7	367
160, 401	Same..... Pyrometrical indicator for steam-engines.....	Mar. 2, 1875	128	46	7	367
166, 688	Same..... Reciprocating engine.....	Aug. 17, 1875	407	152	8	286
170, 534	Doan, Daniel, Springville, Iowa. Weather-strip.....	Nov. 30, 1875	1201	379	8	926
158, 923	Doan, Riley R., Sacramento, Cal. Road-engine.....	Jan. 19, 1875	552	183	7	115
	Doan, W. H. (See Tully, Thomas, assignor.)					
165, 806	Doane, Sharron P., San Francisco, Cal. Sharpening-rifle.....	July 20, 1875	664	203	8	124
6, 773	Doane, William H., and William E. London, assignors, by mesne assignments, to J. A. Fay & Co., Cincinnati, Ohio. Combined planing and matching machines. (Re-issue).....	Nov. 30, 1875	1322	{ 417 418 }	8	942
167, 749	Doane, William H., and George W. Passel, assignors to J. A. Fay & Co., Cincinnati, Ohio. Planing-machine.....	Sept. 14, 1875	337	108	8	461
170, 349	Same..... Hand-planing machine.....	Nov. 23, 1875	1016	319	8	892
166, 511	Dobbins, Leander. (See Saladee, Cyrus W., assignor)..... (Reissue.)					
171, 104	Dobbs, John, and Benjamin F. Booth, Victor, Iowa. Wire-barb pinchers.....	Aug. 10, 1875	324	98	8	252
171, 105	Same..... Barbed-wire fence.....	Dec. 14, 1875	423	141	8	1014
160, 754	Same..... Barbed fence-wire.....	Dec. 14, 1875	424	141	8	1014
159, 805	Dobbs, Seneca, and William M. Brayton, Rochester, N. Y. Picture-frame hanger.....	Mar. 16, 1875	479	157	7	432
	Dobbs, William T., Pana, Ill. Method of tubing wells.....	Feb. 16, 1875	550	183	8	273
	Dobson, Edmund. (See Wormald & Dobson.)					
	Dobson, James. (See Dobson, John and James.)					
	Dobson, James, et al. (See Webster, John T., assignor)..... (Design.)					
	Dobson, John, et al. (See Webster, John T., assignor)..... (Design.)					
165, 716	Dobson, John and James, Philadelphia, Pa. Carding-machine.....	July 20, 1875	579	177	8	113
167, 075	Dockray, Charles, Zanesville, Ohio. Core-barrel.....	Aug. 24, 1875	872	272	8	348
165, 217	Dockstader, Preston C., Lyndon, Ill. Device for raising and lowering cattle-racks on platform-scales.....	July 6, 1875	72	21	8	18
161, 392	Dodd, Alvin H., New York, N. Y. Protractor.....	Mar. 30, 1875	1092	355	7	530
169, 527	Dodd, Robert J., Crawfordsville, Ind., assignor to self, Taylor Buffington, Walter S. Casad, Noah Wilkinson, and D. W. Milholland. Weather-board gage.....	Nov. 2, 1875	183	62	8	760
165, 551	Dodds, Albert G., assignor, by mesne assignments, of part interest to E. T. Best and A. C. Wilcox, Chariton, Iowa. Trace-buckle.....	July 13, 1875	414	124	8	73
6, 339	Doods, Walter S. (See Perkins & Dodds.)					
	Dodenhoff, Israel, deceased, assignor, by mesne assignments, to Walter A. Wood Mow- ing and Reaping Machine Company, Hoosick Falls, N. Y. Harvester..... (Reissue).....	Mar. 16, 1875	693	{ 227 228 }	7	462
162, 131	Dodge, Edward B., Peterborough, N. H. Spring bed-bottom.....	Apr. 27, 1875	978	314	7	724
169, 154	Dodge, Frank L., and Charles E. Smith, Grand Rapids, Mich. Mold for casting door-plates.....	Oct. 26, 1875	820	266	8	703
159, 398	Dodge, Franklin, Union Grove, Ill. Peat-machine.....	Feb. 2, 1875	140	48	7	204
6, 242	Dodge, Levi, Waterford, N. Y. Baling-press.....	Jan. 19, 1875	650	213	7	127
6, 243	Same..... Hay, straw, and other bales..... (Reissue).....	Jan. 19, 1875	653	213	7	128
166, 857	Dodge, Lucius A., Keeseville, N. Y. Feed device for nail-forging machines.....	Aug. 17, 1875	653	203	8	309
	Dodge, Theodore A., trustee. (See Gillespie, James E., assignor.)					
	Dodge, Walter E. (See Flagler & Dodge.)					
	Dodge, William A. (See Scott, Samuel, assignor.)					
166, 350	Dodge, William C., Washington, D. C. Cup for effervescing drinks.....	Aug. 3, 1875	149	46	8	221
	Dodge, William F. (See Hawkins & Dodge.)					
	Dodge, William F., et al. (See McDonough, Thomas, assignor.)					
169, 426	Dodson, Silas, Rochester, N. Y. Grain-decorticator.....	Nov. 2, 1875	97	30	8	748
162, 223	Doe, William, Reno, Pa. Nozzle for oil-cans.....	Apr. 20, 1875	585	192	7	666
163, 303	Doeg, Issacher W., assignor of one-half interest to Orrin Murray, New Market, N. H. Machine for making washers.....	May 18, 1875	564	{ 180 181 }	7	844
	Doerr, George. (See Geldreich, Joseph, assignor.)					
161, 768	Doherty, Patrick W., Boston, Mass. Self-closing faucet.....	Apr. 6, 1875	153	53	7	591
170, 070	Same..... Molding apparatus.....	Nov. 16, 1875	741	235	8	847
	Dohm, Louis. (See Schauble & Dohm.)					
	Dolan, A., et al. (See Irvin, Thomas W., assignor.)					
	Doland, Frank F. (See Scherb & Doland.)					
165, 218	Doland, Frank F., and Francis Scherb, Sacramento, Cal. Vehicle-spring.....	July 6, 1875	72	21	8	19
	Dolbear, C. H., et al. (See Stearns, Charles A., assignor.)					
171, 272	Dole, James A., Bangor, Me. School-desk.....	Dec. 21, 1875	615	201	8	1047
166, 512	Dolph, George C., and Frank J. Smith, West Andover Township, Ohio. Cheese-press.....	Aug. 10, 1875	325	98	8	253
169, 241	Doman, John, Bay City, Mich. Track-clearer.....	Oct. 26, 1875	894	291	8	714
	Domestic Sewing Machine Company. (See Powell, Edward, assignor.)					
	Donahue, Thomas. (See Taylor & Donahue.)					
	Donald, David. (See Crumbie & Donald.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Donaldson, Margaret, administratrix. (See Donaldson, Richard)..... (Extension.)					
	Donaldson, Richard, deceased, by Margaret Donaldson, administratrix, Logansport, Ind. Lime-kiln..... (Extension.)	Feb. 18, 1875			7	386
31, 445	Donaldson, Richard, Mount Nebo, Pa. Lime-kiln..... (Disclaimer filed)	Feb. 18, 1875			7	387
161, 393	Donaldson, Robert B., Washington, D. C. Dental plugger.....	Mar. 30, 1875	1093	355	7	530
171, 106	Same..... Vulcanized-rubber handle for dental tools, &c.....	Dec. 14, 1875	424	141	8	1014
169, 786	Donath, Ferdinand A. H., and Carl E. F. Jasper, Dresden, Saxony. Cigar-machine.....	Nov. 9, 1875	472	149	8	804
167, 314	Donley, William J., Camden, N. J. Joiner's clamp.....	Aug. 31, 1875	1109	349	8	389
	Donn, Wilton C., administrator. (See Gahn, Henrik.)					
167, 997	Donnellan, Charles E., assignor to self, B. R. McCord, and William M. Wheatley, Indianapolis, Ind. Grain-binder.....	Sept. 21, 1875	563	{ 181 182 }	{ 8 8 }	503
163, 853	Donnelly, Martin, assignor of one-half interest to Harry E. Beach, Peoria, Ill. Side-bar wagon.....	June 1, 1875	16	5	7	933
167, 998	Donnelly, Peter D., assignor of one-half interest to Samuel Bissicks, New York, N. Y. Valve for water-closets.....	Sept. 21, 1875	566	183	8	503
166, 971	Donner, Carl P., San Francisco, Cal. Horseshoeing-tool.....	Aug. 24, 1875	776	239	8	534
160, 655	Donner, John O., New York, N. Y. Centrifugal sugar-machine.....	Mar. 9, 1875	368	124	7	410
160, 656	Same..... Apparatus for the manufacture of hard sugar.....	Mar. 9, 1875	369	124	7	411
160, 657	Same..... Sugar-cutting machine.....	Mar. 9, 1875	370	125	7	411
160, 009	Donoghue, John F., Springfield, Mass. Anti-incrustation battery for boilers.....	Feb. 23, 1875	759	251	7	308
170, 350	Donohoe, Patrick O., Peru, Ill. Coal-shelling drill.....	Nov. 23, 1875	1017	319	8	892
169, 528	Donovan, David H., Bayonne, N. J. Material for chair-seats.....	Nov. 2, 1875	184	62	8	760
160, 816	Donovan, John, Carpentersville, Ill. Casting steel-faced anvils.....	Mar. 16, 1875	539	175	7	440
164, 272	Donovan, John E., Cincinnati, Ohio. Fluting-machine.....	June 8, 1875	411	{ 137 138 }	{ 7 8 }	997
171, 002	Donovan, William, New York, N. Y. Sink.....	Dec. 14, 1875	333	110	8	1002
	Doolittle, George. (See Armstrong & Doolittle.)					
	Doolittle Manufacturing Company. (See Doolittle, Thomas B., assignor.)					
163, 164	Doolittle, Thomas B., assignor to Doolittle Manufacturing Company, Bridgeport, Conn. Alarm fare register.....	May 11, 1875	416	135	7	809
166, 858	Doolittle, Thomas B., Bridgeport, Conn. Means for holding conductors' punches.....	Aug. 17, 1875	654	203	8	309
170, 351	Same..... Register.....	Nov. 23, 1875	1018	319	8	892
165, 661	Doolittle, Thomas B., and James M. Ellis, Bridgeport, Conn. Device for making tabs for wire fences.....	July 20, 1875	530	162	8	106
161, 600	Doray, Onesiphore P., Worcester, Mass. Machine for making rope-moldings.....	Apr. 6, 1875	11	4, 5	7	570
159, 806	Doremus, William T., New York, N. Y. Chair.....	Feb. 16, 1875	551	183	7	273
161, 671	Same..... Tilting chair.....	Apr. 6, 1875	72	26	7	579
163, 054	Same..... Chair-base.....	May 11, 1875	314	101	7	795
165, 717	Same..... same.....	July 20, 1875	560	177	8	113
165, 718	Same..... same.....	July 20, 1875	580	178	8	113
168, 383	Same..... Base for revolving chairs.....	Oct. 5, 1875	57	20	8	573
166, 513	Dorgan, Joseph H., Plattsburgh, N. Y. Horseshoe.....	Aug. 10, 1875	325	98	8	253
169, 787	Doriot, Victor, Bristol, Tenn. Watch-plate.....	Nov. 9, 1875	474	150	8	804
	Dorke, Joseph M. (See Hill, John R., assignor.)					
	Dorlan, Samuel B. (See White, J. Atwood, assignor.)					
170, 352	Dorlan, Samuel B., Dorlan's Mills P. O., Chester County, Pa. Composition for sizing.....	Nov. 23, 1875	1019		8	892
160, 513	Dorman, Jerry, Georgetown, D. C. Crane.....	Mar. 9, 1875	245	84	7	392
162, 156	Dorman, Jerry, and Thomas G. Good, Georgetown, D. C. Propelling and steering apparatus for vessels.....	Apr. 20, 1875	524	173	7	659
164, 273	Dorman, John F. W., Baltimore, Md. Hand-stamp.....	June 8, 1875	411	138	7	997
159, 653	Dornan, John, Philadelphia, Pa. Loom.....	Feb. 9, 1875	386	{ 127 128 129 }	{ 7 7 7 }	246
165, 807	Same..... Bobbin-winder.....	July 20, 1875	665	203	8	124
160, 010	Dorr, Henry S., Dayton, and Henry Seyfert, Cincinnati, Ohio. Wood-filling compound.....	Feb. 23, 1875	760		7	308
158, 476	Dorr, Russell R., Burlington, Iowa. Clothes and hat rack.....	Jan. 5, 1875	111	37	7	24
161, 936	Dorr, Warren, assignor of part interest to Joseph L. Mitchell and George W. Colburn, Gardiner, Me. Car-coupling.....	Apr. 13, 1875	319	106	7	625
	Dorr, William A. (See Webster, Dorris & McClenathan.)					
	Dorrington, William J. (See King, George B., assignor.)					
161, 870	Dorrison, Samuel A., Clinton, Mass. Metal switch for killing insects.....	Apr. 13, 1875	260	87	7	617
	Dorsey, Daniel W., et al. (See Hays, Joseph S., assignor.)					
	Dos Passos, J. R., et al. (See Cook, Thomas, assignor.)					
	Doster, Herman A., et al. (See Detwiller, Henry J., assignor.)					
163, 055	Doty, Alfred W., Windham Centre, N. Y. Carriage-clip.....	May 11, 1875	315	101	7	795
	Doty, Peter B. (See Osborn, Merriam & Doty.)					
168, 559	Doty, Peter B., Conneaut, Ohio. Artificial stone.....	Oct. 11, 1875	241		8	606
	Doubleday, H. H. (See Weed, James A., assignor.)					
160, 885	Doubleday, Samuel, Baltimore, Md. Bronze alloy.....	Mar. 16, 1875	595		7	448
166, 351	Same..... Car-brake.....	Aug. 3, 1875	150	47	8	221
167, 999	Doubler, John W. H., assignor of one-half interest to William V. T. Cramer, Philadelphia, Pa. Mechanical motor.....	Sept. 21, 1875	567	183	8	503
168, 729	Doubler, John W. H., assignor of one-half interest to George F. Godley, Philadelphia, Pa. Equalizer of spring-power.....	Oct. 11, 1875	395	130	8	629
168, 626	Dougherty, Andrew, Brooklyn, N. Y. Playing-card.....	Oct. 11, 1875	310	101	8	616
168, 239	Dougherty, George H., assignor of one-half interest to Charles F. Marquard, Jersey City, N. J. Street-lamp signal for locating fire-plugs.....	Sept. 28, 1875	821	261	8	545
158, 630	Dougherty, James, New York, N. Y. Blind-stop.....	Jan. 12, 1875	261	89	7	61
168, 000	Dougherty, John S., assignor to self and Rodney Ellis, South Bay City, Mich. Rowlock.....	Sept. 21, 1875	568	183	8	504
	Dougherty, William E. (See Boyden, William A., assignor.)					
163, 304	Doughty, Philander M., Louisville, Ky. Safety-pin.....	May 18, 1875	566	181	7	844
168, 627	Same..... Fire-extinguisher.....	Oct. 11, 1875	310	101	8	616
	Douglas, B., et al. (See Douglas, Joseph W., assignor.)					
	Douglas, Benjamin. (See Douglas, Joseph W., assignor.)					
6, 701	Douglas, Charles A., Franklin, N. Y. Faucet..... (Reissue)	Oct. 19, 1875	726	239	8	683
6, 744	Same..... Milk-cooler..... (Reissue)	Nov. 16, 1875	821	259	8	857
158, 786	Douglas, Joseph W., assignor to W. and B. Douglas, Middletown, Conn. Lining pump-cylinders.....	Jan. 19, 1875	419	141	7	98
167, 195	Douglas, Joseph W., assignor of one-half interest to Benjamin Douglas, Middletown, Conn. Water-hydrant.....	Aug. 3, 1875	12	4	8	200
	Douglas, W., et al. (See Douglas, Joseph W., assignor.)					
164, 533	Douglass, Joseph B., and Elijah S. Green, Columbia, Mo. Insect-destroying composition.....	June 15, 1875	662		7	1039
	Douglass, Sammerfield. (See Chisholm, George D., assignor.)					
166, 919	Douglass, William H., assignor to C. H. Smith, Chicago, Ill. Weather-strip.....	Aug. 24, 1875	725	225	8	328

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170, 665	Douthett, William C., Springdale, assignor of part interest to Jesse D. Snyder, Williamsport, and James E. Karns, Springdale, Pa. Mowing-machine	Dec. 7, 1875	10	3, 4	8	952
	Douty, William H. (See Jones, Diodorus S., assignor.)					
	Dover Fruit and Vegetable Preserving Company. (See Register, John E., assignor.)					
	Dover Stamping Company. (See Earle, Timothy, assignor.) (Reissue.)					
	See Whitney, Edward H., assignor.)					
160, 261	Dovey, James F. (See Spicer & Insull, assignors.)	Mar. 2, 1875	6	3	7	350
	Dow, Joseph L., Manchester, N. H. Shuttle-guard for looms					
	Dow, Sherburne S. (See Crocker, Samuel E., assignor.)					
163, 366	Dowd, Olney B., New York, N. Y. Pneumatic dispatch apparatus	May 18, 1875	620	198	7	852
167, 442	Same..... Tunneling-machine.....	Sept. 7, 1875	56	17	8	414
168, 146	Same..... Tunnel	Sept. 28, 1875	743	234	8	534
167, 881	Dowling, Thomas, assignor to self and Israel C. Mayo, Gloucester, Mass. Pump	Sept. 21, 1875	475	150	8	480
169, 242	Downer, Phyleman A., Canton, assignor to Lewis Cornell and Enos Slosson, Chicago, Ill. Washing-machine	Oct. 26, 1875	895	291	8	714
167, 390	Downing, Burton J., and Harry D. Van Campen, Dayton, Ohio. Horse hay-rake	Sept. 7, 1875	10	3	8	408
167, 880	Downing, James, assignor to self and Fray & Pigg, Bridgeport, Conn. Basin-fancet	Sept. 21, 1875	475	150	8	489
166, 079	Downing, Jerome F., Erie, Pa. Nursery-chair	July 27, 1875	938	299	8	174
165, 219	Downing, Joseph, sr., Allentown, Pa. Method of forming piles or fagots of old railway-rails	July 6, 1875	73	21	8	19
158, 631	Downing, Leverett H., North Andover, Mass. Hydraulic hose	Jan. 12, 1875	262	89	7	61
165, 159	Downing, Leverett H., North Andover, Mass., assignor to John A. Wiley. Hydraulic hose	July 6, 1875	12	4	8	10
159, 163	Downing, William R., Murfreesborough, Tenn. Combined harrow and roller	Jan. 26, 1875	791	260	7	155
162, 132	Downs, Isaac N., West Newton, Pa. Wagon-brake	Apr. 27, 1875	979	314	7	724
168, 238	Downs, William C., Bristol, R. I. Buckle	Sept. 28, 1875	820	261	8	545
	Downs, William W., et al. (See Bloomer, William, assignor.)					
162, 157	Downton, Robert L., Saint Louis, Mo. Process of manufacturing middlings-flour	Apr. 20, 1875	526	173	7	659
162, 158	Same..... Middlings-purifier	Apr. 20, 1875	527	173	7	659
164, 274	Doyle, John, Philadelphia, Pa. Method of destroying vermin and collecting the dust arising from carpet-beating machines	June 8, 1875	412	138	7	997
171, 109	Doyle, John, Hoboken, N. J. Rectangular-mortise cutter	Dec. 14, 1875	427	142	8	1015
162, 356	Doyle, Thomas, Bridgeport Centre, Mich. Saw-filing machine	Apr. 20, 1875	709	230	7	681
				231		
160, 755	Doyle, William, Albany, N. Y. Stove	Mar. 16, 1875	480	157	7	432
163, 583	Same..... Magazine stove	May 25, 1875	834	264	7	887
165, 919	Same..... Parlor cook-stove	July 27, 1875	785	241	8	153
165, 920	Same..... same	July 27, 1875	787	242	8	154
	Drago, Edward A. (See Wood & Drago.)					
166, 689	Drake, Chester T., Evanston, Ill., assignor, by mesne assignments, to Seth A. Mattison, Washington, D. C. Wagon-jack	Aug. 17, 1875	498	152	8	286
8, 872	Drake, Ezra M., New York, N. Y. Band-comb..... (Design)	Dec. 28, 1875			8	1076
	Drake, Henry L., et al. (See Smith, Aaron F., assignor.) (Reissue.)					
170, 622	Drake, Lawrence, New York, N. Y. Honey-package	Nov. 30, 1875	1290	408	8	937
169, 788	Drake, Levi F., assignor of one-half interest to Samuel Hugban, Brooklyn, N. Y. Burglar-alarm	Nov. 9, 1875	476	150	8	804
163, 165	Drake, Prince E., Belle Ewart, Canada. Railway car buffer	May 11, 1875	417	135	7	809
169, 789	Drake, Simeon H. (See Medbery, Mann & Drake.)					
	Drake, Simeon N., Galveston, Tex. Bale tie	Nov. 9, 1875	476	150	8	804
	Draper & Son, George. (See Allen, Nicholas I., assignor.)					
	Same..... (See Jenckes, Welcome, assignor.) (Reissue.)					
	Same..... (See Wright, Daniel, assignor.)					
164, 275	Draper, Benjamin J., et al. (See Fitt, Frederic, assignor.)					
	Draper, Daniel, assignor to Guiseppa Taliabue, New York, N. Y. Registering-thermometer	June 8, 1875	413	138	7	997
164, 641	Draper, Elisha, London, Canada. Musical game-apparatus	June 22, 1875	767	252	7	1062
	Draper, George, et al. (See Carroll, William T., assignor.) (Reissue.)					
170, 826	Draper, George, Hopedale, Mass. Spinning-ring holder	Dec. 7, 1875	154	51	8	971
171, 359	Same..... Bearing for journals	Dec. 21, 1875	688	228	8	1057
171, 508	Draper, Henry V. P., assignor of one-half interest to Peter B. Groat, Hannibal, Mo. Lubricating compound	Dec. 28, 1875	847		8	1086
171, 509	Same..... same	Dec. 28, 1875	848		8	1087
	Draper, Oliver D., et al. (See Smith, Almon J., assignor.)					
	Draper, William F., et al. (See Carroll, William T., assignor.) (Reissue.)					
	Drayton, Benjamin A. (See Osborn & Drayton.)					
	Drennen, Thomas T. (See Goodnough & Drennen.)					
168, 560	Drescher, Luis, New York, N. Y. Magneto-electric machine	Oct. 11, 1875	242	79, 80	8	606
165, 679	Dresser, Edwin, Cambridge, assignor to Cambridgeport Dairy Company, Cambridgeport, Mass. Band-fastener	June 29, 1875	1181	380	7	1124
170, 243	Dressler, Edward Gablonz, Bohemia, Austria, assignor to Alfred J. Ostheimer, Philadelphia, Pa. Paper-weight	Nov. 23, 1875	925	288	8	878
163, 305	Drew, George R., Millburn, N. J. Hub and axle for vehicles	May 18, 1875	566	181	7	844
	Dreyer, William C. (See Shiver, Elisha, assignor.)					
166, 080	Dreyfus, Isidore, assignor to Nathan & Dreyfus, New York, N. Y. Apparatus for ejecting water	July 27, 1875	940	290	8	174
166, 081	Same..... Feed-water regulator	July 27, 1875	941	291	8	174
166, 082	Drinkhouse, Frank F., Phillipsburgh, N. J. Clamp for halters	July 27, 1875	943	291	8	174
163, 752	Driscoll, John B., New York, N. Y. Coal-hod	May 25, 1875	979	310	7	906
	Driscoll, John L. (See Schuster & Driscoll.)					
	Dronier, Pierre. (See Voisin & Dronier.)					
170, 353	Drucklieb, Julius, Jersey City Heights, N. J. Locking-latch	Nov. 23, 1875	1020	319	8	892
168, 001	Drummond, James F., New York, N. Y. Paint-can	Sept. 21, 1875	568	183	8	504
159, 164	Dryden, George, Worcester, Mass. Boring-machine	Jan. 26, 1875	792	260	7	155
	Dryfoos, Louis. (See Beck, August, assignor.)					
	Same..... (See Hauser, Isidor, assignor.)					
	Same..... (See Rogerson, Samuel, assignor.)					
161, 672	Dubbs, Henry, Franklin, Pa. Compound for decolorizing petroleum	Apr. 6, 1875	73		7	579
	Du Bois, Benjamin F. (See Klotz, Daniel H., assignor.)					
167, 076	Du Bois, Frederick N., New York, N. Y. Manufacture of lead-traps	Aug. 24, 1875	873	272	8	348
	Du Bois, Howard M. (See Davis & Du Bois.)					
165, 662	Du Bois, John, Williamsport, Pa. Spark-arrester	July 20, 1875	531	162	8	106
	Du Bois, Normann, et al. (See Slusser, Benjamin, assignor.) (Reissue.)					
6, 201	Du Bois, Orin, San José, Cal. Track-clearer for harvesters	Jan. 5, 1875	183	64	7	35
165, 986	Du Bois, Otto, Fall River, Mass. Machine for washing photographic prints	July 27, 1875	852	262	8	162

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164, 817	Dubose, Henry K., and Edgar W. Charles, jr., Camden, S. C. Bale-tie.....	June 22, 1875	931	301	7	1083
164, 079	Dubroy, Anthone, and John P. Wagner, Cleveland, Ohio. Extension-table.....	June 8, 1875	235	81	7	974
159, 165	Du Brul, Napoleon, Cincinnati, Ohio. Cigar-mold.....	Jan. 26, 1875	793	260	7	155
161, 015	Same..... Machine for charging cigar-molds.....	Mar. 23, 1875	716	236	7	474
164, 981	Same..... Cigar-mold.....	June 29, 1875	1097	354	7	1112
166, 591	Same..... Cigar-bundling machine.....	Aug. 10, 1875	389	120	8	262
162, 043	Dubuisson, George W., Tom's River, N. J. Bleaching jute for paper-pulp.....	Apr. 13, 1875	403	.....	7	636
167, 651	Duburn, Anthony M., Adrian, Mich. Lantern.....	Sept. 14, 1875	253	78, 79	8	449
164, 818	Duc, Henry A., jr., Charleston, S. C. Life-preserving apparatus.....	June 22, 1875	931	301	7	1083
168, 462	Duck, John H., Elgin, Ill. Pump for deep wells.....	Oct. 5, 1875	126	43	7	583
171, 360	Duck, Simeon, assignor to self and Joshua Davies, Victoria, British Columbia. Mortis- ing-machine.....	Dec. 21, 1875	689	227	8	1057
159, 654	Ducker, Edward, Springfield, Mass. Folding camp-stool.....	Feb. 9, 1875	389	130	7	246
167, 157	Ducsh, Henry, Baltimore, Md. Bushing for fire-tubes and flues of steam-boilers.....	Aug. 31, 1875	978	304	8	370
6, 786	Dudgeon, Eneas M., San Francisco, Cal. Hydraulic jack..... (Reissue.)	Dec. 7, 1875	253	85	8	984
162, 044	Same..... same.....	Apr. 13, 1875	405	136	7	6.6
171, 361	Dudley, Charles, assignor to O. B. North & Co., New York, N. Y. Snap-hook.....	Dec. 21, 1875	690	227	8	1057
160, 011	Dudley, Edward D., Galesburgh, Ill. Flat-iron heater.....	Feb. 23, 1875	760	251	7	308
161, 601	Dudley, George D., assignor to Edward P. Woods, Daniel Sherwood, and Cyrus H. Latham, Lowell, Mass. Broiler.....	Apr. 6, 1875	12	5	7	570
161, 937	Dudley, George D., Lowell, Mass., assignor to Edward P. Woods, Daniel Sherwood, and Cyrus H. Latham. Broiler.....	Apr. 13, 1875	319	107	7	625
158, 477	Dudley, Richard, Erie, Pa. Torsion-spring.....	Jan. 5, 1875	112	38	7	24
164, 819	Dueber, John C., Cincinnati, Ohio. Watch-key.....	June 22, 1875	932	302	7	1083
163, 753	Duerden, Lawrence L., Brooklyn, N. Y. Electrical-circuit closer.....	May 25, 1875	980	310	7	906
166, 754	Duesbury, Charles B., Mansfield, Mass. Method of attaching pins to brooches.....	Aug. 17, 1875	559	171	8	295
	Duever, Adolph T. (See Letz & Duever.).....					
	Duff, P., et al. (See Todd, Westley, assignor)..... (Reissue.)					
	Duff, R. P., et al. (See Todd, Westley, assignor)..... (Reissue.)					
8, 873	Duff, William A., Philadelphia, Pa. Flag..... (Design.)	Dec. 28, 1875	.....	.....	8	1076
168, 086	Duffey, Frank B., Hastings, Mich. Plastic compound for making ornamental articles.....	Sept. 28, 1875	680	.....	8	536
168, 062	Duffy, James, Quincy, Ill. Stove.....	Sept. 21, 1875	570	184	8	504
164, 910	Duffy, James F., assignor of one-half interest to Nicholas Schroeder, Chicago, Ill. Im- plement for stretching fence-wires.....	June 29, 1875	1037	334	7	1104
165, 220	Duffy, James F., and Nicholas Schroeder, Chicago, Ill. Barb for wire fences.....	July 6, 1875	73	21	8	19
164, 431	Duffy, Thomas T., Dubuque, Iowa. Blind-stop.....	June 15, 1875	578	187	7	1028
168, 561	Dufner, Bernhard, Buffalo, N. Y. Organ, &c.....	Oct. 11, 1875	244	80	8	606
164, 276	Dufour, Hillary and Peter C., and Ebenezer B. Rowe, Chicago, Ill. Machine for making fence-pickets.....	June 8, 1875	414	139	7	997
164, 534	Du Four, Joseph L. M., Boundbrook, N. J. Car-window.....	June 15, 1875	662	214	7	1039
	Dufour, Peter C. (See Dufour & Rowe.).....					
161, 871	Dugan, John, San Francisco, Cal. Hay-press.....	Apr. 13, 1875	260	87	7	617
160, 086	Dugdale, Charles R., Mason and Dixon, Pa., and Daniel Breed, Washington, D. C. Plow.....	Feb. 23, 1875	825	171	7	317
167, 652	Duggan, John A., assignor of one-third interest to John B. F. Ramsden, Quincy, Mass. Safety railway-switch.....	Sept. 14, 1875	253	79	8	449
164, 432	Duhamel, Victor, Easton, Pa. Hoisting-machine.....	June 15, 1875	579	187	7	1028
169, 529	Duhem, Constant, Denver, Colo. Galvanic battery.....	Nov. 2, 1875	184	62	8	760
170, 244	Duke, Mary A. (See Duke, William J. and Mary A.).....					
169, 629	Duke, William J. and Mary A., Booneville, Miss. Shirt-front.....	Nov. 23, 1875	926	288	8	879
169, 629	Du Laney, George L., New York, N. Y. Tuck-folding attachment for sewing-machines.....	Nov. 9, 1875	305	98	8	783
170, 354	Same..... Sewing-machine.....	Nov. 9, 1875	358	113	8	710
170, 827	Dulin, William, Big Grove, Iowa. Tool for putting barbs on wire fences.....	Nov. 23, 1875	1020	320	8	892
163, 367	Same..... Instrument for aiding animals in giving birth.....	Dec. 7, 1875	155	52	8	971
170, 245	Duman, Stephen A., assignor to John Irbacher and Jacob Davis, Buffalo, N. Y. Faucet.....	May 18, 1875	622	169	7	852
169, 155	Dummer, Paul E. (See Malmström & Dummer.).....					
170, 245	Dunbar, Alexander, Beechville, Canada. Horseshoe.....	Nov. 23, 1875	926	289	8	879
169, 155	Dunbar, Eugene J., Romulus, Mich. Pump-bucket.....	Oct. 26, 1875	821	266	8	704
163, 166	Dunbar, Eugene M. (See Dunbar, Stowell & Dunbar.).....					
164, 277	Dunbar, Francis M., Nellie Stowell, and Eugene M. Dunbar, Kalamazoo, Mich. Gas- governor.....	May 11, 1875	418	136	7	809
170, 941	Dunbar, Henry D., North Hartland, Vt. Exhaust-nozzle for steam-engine.....	June 8, 1875	415	139	7	998
164, 535	Dunbar, Hiram P., and Thomas C. Lothrop, Boston, Mass. Rubber articles.....	Dec. 14, 1875	272	91	8	994
164, 278	Dunbar, John H., Philadelphia, Pa. Stand for barrel-churns.....	June 15, 1875	663	214	7	1039
158, 632	Dunbar, Robert, Mansfield Valley, and John Keegan, McDonald, Pa. Coal-chute.....	June 8, 1875	416	139	7	998
158, 633	Dunbrack, Charles S., assignor to Thomas Corey, trustee, Swampscott, Mass. Stitch- imitation and stitch-dividing mechanism.....	Jan. 12, 1875	262	89	7	61
171, 107	Dunbrack, Charles S., Swampscott, and William B. Vesey, Milford, Mass., assignors to Thomas Corey, trustee. Machinery for forming an imitation stitch upon the soles of boots or shoes.....	Jan. 12, 1875	263	89	7	61
162, 539	Duncan, Alexander, Duncan's Mills, Cal. Lifting-jack.....	Dec. 14, 1875	426	141	8	1015
159, 910	Duncan, Edward A., Washington, D. C., assignor of one-half interest to John Hailey, Boise City, Idaho. Preserving meat.....	Apr. 27, 1875	904	.....	7	714
171, 108	Duncan, James, Buchanan, Mich. Lap-table for milliners, &c.....	Feb. 16, 1875	647	214	7	286
164, 725	Duncan, William A., Syracuse, N. Y. Clamp for washing-machines and wringers.....	Dec. 14, 1875	427	142	8	1015
167, 653	Dundee, Horace L., Boston, Mass. Camp-stove.....	June 22, 1875	846	275	7	1072
164, 433	Dunderdale, Cleaveland F., New York, N. Y. Hydraulic cement.....	Sept. 14, 1875	255	79	8	449
	Dung, Albert C., New York, N. Y. Composition for dentifrice.....	June 15, 1875	579	.....	7	1028
167, 229	Dungan, Abel S. (See Roberts, Thomas, assignor.).....					
6, 295	Dunham, Aaron S., Verona, N. Y. Weeding-hoe.....	Aug. 31, 1875	1038	322	8	378
161, 216	Dunham, George B. (See Joint & Dunham.).....					
	Dunham, Henry, jr., Abington, assignor, by mesne assignments, to Gordon McKay, trustee, Boston, Mass. Machine for sewing boots and shoes..... (Reissue.)	Feb. 16, 1875	734	244	7	297
	Dunham, Humphrey B., Newark, N. J. Apparatus for charging a stream of water with carbonic-acid gas.....	Mar. 23, 1875	897	{ 294 } { 295 }	7	497
163, 644	Dunham, J. N., et al. (See Brettell & Lindsey, assignors.).....					
6, 279	Dunham, John C., Buffalo, N. Y. Shirt.....	May 25, 1875	890	281	7	894
	Dunham, Moses E. (See Latcher & Dunham.).....					
163, 979	Dunham, Ralph C., New Britain, Conn., assignor, by mesne assignments, to Andrew Albright, Newark, N. J. Rubber-coated buckle and ring..... (Reissue.)	Feb. 9, 1875	472	158	7	258
164, 154	Dunham, Thomas H., Boston, Mass. Treating tar.....	June 1, 1875	116	39	7	947
170, 828	Same..... Cordage.....	June 8, 1875	298	.....	7	982
170, 829	Same..... Hose and tubing.....	Dec. 7, 1875	156	.....	8	971
	Same..... Process for preserving cotton, hemp, and flax hose, belting, &c.....	Dec. 7, 1875	156	.....	8	971
	Dunks, Charles H. (See Tucker, Erwin W., assignor)..... (Reissue.)					
	Dunlap, Charles W. (See Murray, Edgar, assignor)..... (Reissue.)					

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163, 980	Dunlap, Ephraim L., Eustis, Me. Fish-hook.....	June 1, 1875	117	39	7	947
160, 886	Dunlap, Henry T., Galesburgh, Ill. Book-clip.....	Mar. 16, 1875	596	194	7	448
	Dunlevy, Seymour, C. W. (See Williams, Samuel B., assignor.)					
166, 972	Dunlop, George, Williamsburgh, N. Y. Heel-plate.....	Aug. 24, 1875	777	239	8	334
	Dunn, George R., et al. (See McDonough, Thomas, assignor.)					
163, 754	Dunn, George W., Texas Creek, Colo. Water-wheel gate.....	May 25, 1875	981	311	7	906
169, 530	Dunn, John, Philadelphia, Pa. Clamp for attaching hemmers, binders, &c., to sewing-machines.....	Nov. 2, 1875	185	63	8	760
162, 277	Dunn, Joseph W., Corpus Christi, Tex. Vine-rake.....	Apr. 20, 1875	636	208	7	673
8, 161	Dunn, Matthew S., Rochester, N. Y. Work-stand..... (Design)	Feb. 23, 1875			7	302
165, 921	Dunn, Olivia H., Boston, Mass. Sleeve-protector.....	July 27, 1875	789	242	8	154
	Dunn, Samuel W. (See Barrett, Joseph, assignor.)..... (Design)					
171, 362	Dunu, Thomas C., Promise City, Iowa. Fly-trap.....	Dec. 21, 1875	691	227	8	1058
166, 514	Dunn, Thomas F., Saccarappa, Me. Wrench.....	Aug. 10, 1875	326	99	8	253
	Dunn, William H. R. (See Burville, James R., assignor.)					
	Dunn, William R. (See Dilger & Dunn.)					
168, 085	Dunn, William T., Pittsburgh, and James P. Silliman, Allegheny, Pa. Extensible brace for excavations.....	Sept. 28, 1875	679	215	8	526
165, 552	Dunnavant, James U., and William A. Hampson, Byhalia, Miss. Cultivator.....	July 13, 1875	414	125	8	74
	Dunning, A. J., et al. (See Brewer, Russell, assignor.)					
164, 982	Dunning, Almon S., Joliet, Ill. Bessemer converter.....	June 29, 1875	1098	354	7	1112
158, 577	Dunstone, Thomas, Santa Cruz, Cal. Sight for fire-arms.....	Jan. 12, 1875	214	73	7	54
168, 240	Dunton, Jacob, Philadelphia, Pa. Manufacture of pills.....	Sept. 28, 1875	821		8	545
	Dupont, John T. (See Rand & Dupont.)					
162, 907	Duport, Louis, Lyons, France. Hot-air furnace.....	May 4, 1875	156	51	7	767
168, 730	Durand, Francois, and Ernest L. Marais, Paris, France. Apparatus for pressing or molding bricks.....	Oct. 11, 1875	398	130	8	629
	Durand, Frederic (See Stuart, Levi B., assignor.)					
159, 911	Durant, Edward G., Kenosha, Wis. Stand for flower pots and vases.....	Feb. 16, 1875	647	214	7	286
171, 472	Durant, Edward G., Racine, Wis. Globe-stand.....	Dec. 28, 1875	806	266	8	1081
	Durfee, Daniel M. (See Clute & Durfee.)..... (Reissue)					
162, 159	Durfee, William F., assignor of one-half interest to James J. Hagennan, Milwaukee, Wis. Pile for bar-iron.....	Apr. 20, 1875	529	174	7	659
167, 077	Durfee, William F., Philadelphia, Pa. Turning Bessemer converters.....	Aug. 24, 1875	874	273	8	348
158, 578	Durfee, Zoheth S., New York, N. Y. Manufacture of piles for beams.....	Jan. 12, 1875	214	73	7	54
167, 078	Same.....Grate for generating gas for fuel.....	Aug. 24, 1875	875	273	8	348
167, 079	Same.....Fire-box for locomotive and other boilers.....	Aug. 24, 1875	876	273	8	349
167, 080	Same.....Vertical gas-burning boiler.....	Aug. 24, 1875	878	274	8	349
	Durham, James K., et al. (See Stewart, John W., assignor.)					
	Durham, J. K., et al. (See Goolsbee, John N., assignor)					
165, 808	Durham, Nephtali A., Hartford, Conn. Dental forcep.....	July 20, 1875	666	204	8	124
161, 394	Düring, Charles A. A., and John Leck, New York, N. Y. Piano-stool.....	Mar. 30, 1875	1093	355	7	530
7, 988	Durkee, Eugene R., Brooklyn, N. Y. Bottle..... (Design)	Jan. 5, 1875			7	5
166, 755	Durlach, Elias, New York, N. Y. Toy store.....	Aug. 17, 1875	559	172	8	295
169, 243	Durno, Peter, Saint Louis, Mo. Journal-box.....	Oct. 26, 1875	896	291	8	714
159, 024	Duroy, Charles L., Pioneer, Ohio. Derrick.....	Jan. 26, 1875	673	219	7	138
162, 278	Dusenbury, William F., New York, N. Y. Carriage-spring.....	Apr. 20, 1875	637	208	7	673
170, 718	Dustin, Daniel G., Batavia, Ohio. Oil-can spout.....	Dec. 7, 1875	59	18	8	958
164, 536	Dutcher, Frank J., Hopedale, Mass. Holding and adjusting device for spinning-rings.....	June 15, 1875	663	215	7	1039
	Dutcher, George N. (See Fieldhouse, Joseph, assignor.)					
158, 409	Dutcher, Henry, Port Jervis, N. Y. Car-coupling.....	Jan. 5, 1875	51	18	7	16
	Dutcher Temple Company. (See Fuller, Albert D., assignor.)					
	Same.....(See Stimpson, Edward S., assignor.)					
158, 691	Dutertre, Louis, San Francisco, Cal. Stone-cutting machine.....	Jan. 12, 1875	316	107	7	68
162, 167	Same.....Roasting apparatus.....	May 11, 1875	419	136	7	809
163, 168	Same.....Pavement.....	May 11, 1875	420	136	7	809
	Dutot, James. (See Walsh & Dutot.)					
	Dutton, Eliza C. (See Dutton, George F., assignor.)					
165, 987	Dutton, George F., assignor to Eliza C. Dutton, Farmington Falls, Me. Oiler.....	July 27, 1875	853	263	8	162
161, 673	Dutton, Leander K., Oskaloosa, Iowa. Burial-vault.....	Apr. 6, 1875	74	26	7	579
	Dutton, Rufus, Yonkers, N. Y. Harvester..... (Extension)	Feb. 11, 1875			7	386
	Dutton, Rufus, et al. (See Allen, Anthony B., assignor.)..... (Reissue)					
164, 434	Dutton, Rufus, Yonkers, N. Y. Harvester-cutter.....	June 15, 1875	580	188	7	1028
169, 427	Duval, Leonidas, Georgetown, D. C. Combined toy gun and horn.....	Nov. 2, 1875	98	30	8	748
166, 532	Duvall, William T., assignor to self and Joseph L. Simms, Georgetown, D. C. Piston for steam-engines.....	Aug. 10, 1875	389	121	8	262
163, 306	Duvinage, Louis, Philadelphia, Pa. Attachment to automatic dental pluggers.....	May 13, 1875	567	181	7	844
8, 284	Du Vivier, Charles A., Summit, N. J., and Edward Du Vivier, New York, N. Y. Pickle and preserve jar..... (Design)	Apr. 27, 1875			7	700
	Du Vivier, Edward. (See Du Vivier, Charles A. and Edward.)..... (Design)					
168, 384	Duwel, Charles, Cincinnati, Ohio. Tobacco-drier.....	Oct. 5, 1875	57	21	8	573
	Dwight, George M. (See Perry & Dwight.)					
8, 375	Dwyer, James, assignor to Detroit Stove Works, Detroit, Mich. Reservoir cooking-stove.....	June 8, 1875			7	968
8, 462	Same.....same..... (Case A. Design)	July 6, 1875			8	4
170, 830	Dwyer, John, Marion, Ohio. Fence.....	Dec. 27, 1875	157	52	8	971
119, 790	Dwyer, Robert, Weymouth, Mass. Sole-lining mechanism for boots and shoes.....	Nov. 9, 1875	477	150	8	804
	Dyce, Hiram H. (See Conlee, George W., assignor.)					
164, 435	Dye, William M., Cairo, Egypt. Fertilizer crusher and distributor.....	June 15, 1875	581	188	7	1028
	Dyer, G. W. (See Rice, Elisha E., assignor.)					
	Dyer, Hiram M. (See Conlee, George W., assignor.)					
171, 110	Dyer, Isaac T., Streator, assignor to self and Virgil T. Price, Chicago, Ill. Pencil-sharpener.....	Dec. 14, 1875	428	142	8	1015
164, 983	Dyer, Isaac T., and George Powell, Streator, Ill. Dip-trough for ice-boxes.....	June 29, 1875	1098	354	7	1112
167, 654	Dyer, Samuel, Natick, R. I. Roller-bearing for speeders, &c.....	Sept. 14, 1875	255	79	8	440
170, 831	Dyke, Albion, assignor of one-half interest to Isaac O. Woodward, Nashua, N. H. Buckle.....	Dec. 7, 1875	157	52	8	971
8, 048	Dyott, Michael B., Philadelphia, Pa. Carbureter for gas-burners..... (Design)	Feb. 9, 1875			7	223
168, 463	Same.....Sheet-metal attachment for gas-burners.....	Oct. 5, 1875	127	44	8	583
164, 155	Dysard, Joseph W., Michigan City, Ind. Weed-covering attachment.....	June 8, 1875	299	102	7	982
6, 315	Eachus, James, Coatesville, Pa. Process of cutting wet paper..... (Reissue)	Mar. 2, 1875	230	78	7	382
6, 444	Eads, James B., Saint Louis, Mo. Iron bridge..... (Reissue)	May 25, 1875	1054	333	7	916
6, 445	Same.....same..... (Reissue)	May 25, 1875	1056	334	7	916

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6, 446	Eads, James B., Saint Louis, Mo. Iron bridge..... (Reissue)	May 25, 1875	1058	334	7	916
162, 045	Same..... same	Apr. 13, 1875	407	136	7	636
162, 357	Same..... same	Apr. 20, 1875	710	231	7	681
163, 854	Same..... Metallic-arch bridge.....	June 1, 1875	17	5	7	933
169, 791	Same..... Metallic arched truss-bridge.....	Nov. 9, 1875	478	151	8	805
170, 832	Eads, James B., Saint Louis, Mo., and James Andrews, Allegheny, Pa. Mattress for forming embankments.....	Dec. 7, 1875	158	52, 53	8	971
6, 220	Eager, George R., Boston, Mass. Pants and other garments..... (Reissue)	Feb. 9, 1875	472	158	7	258
160, 312	Same..... Shirt.....	Mar. 2, 1875	52	19	7	356
167, 315	Same..... Overalls.....	Aug. 31, 1875	1109	349	8	389
167, 316	Same..... same.....	Aug. 31, 1875	1110	349	8	389
167, 317	Same..... same.....	Aug. 31, 1875	1111	349	8	389
167, 318	Same..... same.....	Aug. 31, 1875	1112	350	8	389
167, 319	Same..... same.....	Aug. 31, 1875	1113	350	8	389
167, 320	Same..... same.....	Aug. 31, 1875	1114	350	8	389
167, 321	Same..... same.....	Aug. 31, 1875	1114	350	8	389
	Eagle Lock Company. (See Mix, Frank W., assignor.)					
167, 750	Eames, Frederick W., Watertown, N. Y. Vacuum car-brake.....	Sept. 14, 1875	339	108	8	461
170, 535	Eames, Henry H., and Abel Patchen, assignors to American Mill and Metallurgical Company, San Francisco, Cal. Process for treating ore.....	Nov. 30, 1875	1202	.....	8	926
	Eames, Melville C., et al. (See Kahler, Conrad, assignor.)					
161, 494	Earing, Henry B., assignor of one-half interest to Richard A. Culter, Peoria, Ill. Fly-trap.....	Mar. 30, 1875	1194	383	7	543
170, 355	Earing, Henry B., assignor of one-half interest to Horace G. Culter, Peoria, Ill. Fly-trap.....	Nov. 23, 1875	1021	320	8	893
	Earl, William, et al. (See Smith, Roswell T., assignor.)..... (Reissue.)					
159, 751	Earle, Oscar T., New York, N. Y. Burning hydrocarbons.....	Feb. 16, 1875	500	167	7	267
167, 751	Earle, Oscar T., Norwalk, Conn. Stop-cock.....	Sept. 14, 1875	343	109	8	462
167, 762	Earle, Oscar T., New York, N. Y. Revenue guard for cigar-boxes.....	Sept. 14, 1875	345	109	8	462
160, 087	Earle, Reginald H., St. John, Newfoundland. Skate.....	Feb. 23, 1875	825	171	7	317
6, 542	Earle, Timothy, Lincoln, R. I., assignor, by mesne assignments, to Dover Stamping Company, Boston, Mass. Egg-beater..... (Reissue)	July 13, 1875	517	157	8	88
170, 666	Earnest, George H., Springfield, Ohio. Pitman-connection.....	Dec. 7, 1875	12	4	8	952
165, 719	Earnshaw, John, East Greenwich, R. I. Brush.....	July 20, 1875	582	178	8	113
162, 358	Earnshaw, Joseph, Cincinnati, Ohio. Car for inclined planes.....	Apr. 20, 1875	713	232	7	682
	Earp, William. (See McKenzie, Alexander, assignor.)					
	East Hampton Bell Company. (See Abell, Irvin H., assignor.)					
	East Hampton Bell Company. (See Goff, George W., assignor.)					
	East New York Boot, Shoe, and Leather Manufacturing Company. (See Ballou, Cyrus C., assignor.)					
	East New York Boot, Shoe, and Leather Manufacturing Company. (See Miller, Francis, assignor.)					
170, 071	Eastburn, Robert H., Philadelphia, Pa. Broom.....	Nov. 16, 1875	745	235	8	847
	Eastern Manufacturing Company. (See Allen, Luther L., assignor.)					
	Eastern Manufacturing Company. (See Webber, Josiah, assignor.)					
163, 584	Eastman, Charles L., Concord, N. H. Steam-packing for pistons.....	May 25, 1875	836	264	7	887
165, 080	Same..... Spark-arrester.....	June 29, 1875	1182	380	7	1124
	Eastman, George. (See Church, Melvin P., assignor.)					
164, 436	Eastman, George C., Lewiston, Me. Flour-sieve.....	June 15, 1875	581	188	7	1028
166, 920	Same..... Combined washing and wringing machine.....	Aug. 24, 1875	726	225	8	328
6, 655	Eastman, George H., Minneapolis, Minn. Grist-alarm..... (Reissue)	Sept. 21, 1875	667	211	8	516
163, 855	Eastman, John I., Philadelphia, Pa. Shoe-dressing.....	June 1, 1875	18	.....	7	933
	Eastman, Robert. (See Oliver, George E., assignor.)					
161, 495	Eastman, Rufus M., assignor to Amanda D. French, Boston, Mass. Pantaloon-shaper.....	Mar. 30, 1875	1195	383	7	543
168, 241	Easton, Edgar, and James Scott, Jacksonville, Ill. Winker-strap for bridle-blinds.....	Sept. 28, 1875	822	261	8	545
161, 872	Eastwood, John W., Monroe Township, Pa. Portfolio.....	Apr. 13, 1875	261	87	7	618
160, 756	Eaton, Asahel K., Brooklyn, N. Y. Prism.....	Mar. 16, 1875	483	157	7	433
	Eaton, Cole & Burnham Company. (See Snow, William B., assignor.)					
	Eaton, John. (See Freeman, Hiram, assignor.)					
163, 981	Eaton, Leander, Worcester, Mass. Regulating chronometers, watches, &c.....	June 1, 1875	117	39, 40	7	947
	Eaton, Melville B. (See Porter & Eaton.)					
	Eau Claire Lumber Company. (See Pond, Levi W., assignor.)					
	Same..... same..... (Reissue.)					
	Eavenson, Davis. (See Stott & Eavenson.)					
167, 081	Ebbert, Jerry, Martin's Ferry, Ohio, assignor, by mesne assignments, to W. A. Conklin and Orrin D. Levis, Pittsburgh, Pa. Culinary implement.....	Aug. 24, 1875	879	275	8	349
163, 368	Eberhard, John G., Akron, Ohio. Hame.....	May 18, 1875	623	99	7	852
165, 663	Eberhart, John G., Baltimore, Md. Brick-kiln.....	July 20, 1875	532	162	8	106
166, 973	Eberhart, John H., Sumter, S. C. Railway-gate.....	Aug. 24, 1875	777	240	8	334
	Eberle, John G., administrator. (See Eberle, John, deceased.)					
163, 056	Eberle, John, deceased, by John G. Eberle, administrator, Glasgow, Mo. Snap-hook.....	May 11, 1875	316	101	7	795
162, 359	Eberly, John A., Reamstown, assignor of one-half interest to Martin Shirley, Hinkletown, Pa. Washing-machine.....	Apr. 20, 1875	714	232	7	682
166, 690	Ebert, Jacob F., Dayton, Ohio. Window-frame.....	Aug. 17, 1875	499	152	8	286
168, 833	Same..... Refrigerator.....	Oct. 19, 1875	501	163	8	652
				164		
160, 088	Eby, Peter, Kinzer's Post-Office, Lancaster County, Pa. Transplanting-box.....	Feb. 23, 1875	826	171	7	317
169, 792	Eccles, James, Philadelphia, Pa., assignor of one-half interest to Samuel Eccles, jr., Baltimore, Md. Car-axle box.....	Nov. 9, 1875	479	151	8	805
	Eccles, Samuel, jr. (See Eccles, James, assignor.)					
161, 674	Eckel, Frederick, New York, N. Y. Pendulum-clock.....	Apr. 6, 1875	75	26	7	579
159, 912	Eckemeyer, Rudolf, Yonkers, N. Y. Machine for pouncing hats.....	Feb. 16, 1875	648	215	7	286
167, 158	Eckhardt, Albert F., Munich, Bavaria. Preparing plates for printing.....	Aug. 31, 1875	979	.....	8	370
161, 873	Eckman, John Y., Galesburgh, Ill. Stalk-cutter.....	Apr. 13, 1875	262	87, 88	7	618
	Eddy, A. G. (See Gaddy, Robert H., assignor.)					
	Eddy, Corse & Co. (See Hayner, George, assignor.)					
166, 083	Eddy, George W., Waterford, N. Y., assignor to Lyman K. Eddy, Philadelphia, Pa. Stop-valve.....	July 27, 1875	943	291	8	174
167, 322	Same..... Whiffletree and neck-yoke.....	Aug. 31, 1875	1115	351	8	389
165, 958	Same..... Stop-valve.....	July 27, 1875	854	263	8	162
168, 464	Same..... Pole and shaft for vehicles.....	Oct. 5, 1875	127	44	8	583

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170, 439	Eddy, George W., New Britain, assignor of one-half interest to Charles B. Stevens, Granby, Conn. Toy pistol.	Nov. 30, 1875	1116	351	8	914
	Eddy, Lyman K. (See Eddy, George W., assignor.)					
166, 974	Eddy, Robert H., assignor to A. G. Eddy, Boston, Mass. Suspender.	Aug. 24, 1875	778	240	8	335
166, 515	Eddy, William H., Worcester, Mass. Drill-sharpening machine.	Aug. 10, 1875	326	99	8	253
169, 971	Same. Boot-crimper.	Nov. 16, 1875	649	203	8	834
168, 974	Edgar, Butler, Espy, Pa. Bilge-protector for vessels.	Oct. 19, 1875	629	208	8	670
170, 942	Same. Ear-muffler.	Dec. 14, 1875	273	91	8	994
158, 478	Edgar, James, New York, and Alfred Bardell, Brooklyn, N. Y. Fire-shovel.	Jan. 5, 1875	113	38	7	25
166, 084	Edgar, James, and Alfred Bardell, New York, N. Y. Stove-cover lifter.	July 27, 1875	945	291	8	175
168, 003	Edgar, John L., Coopersville, Mich., assignor of one-half interest to Harvey W. Peace, Williamsburgh, N. Y. Crosscut-saw handle.	Sept. 21, 1875	570	184	8	504
164, 911	Edgcomb, George W., Lima, and Henry A. Gore, Goshen, Ind. Foot-rest.	June 29, 1875	1038	334	7	1104
171, 363	Edge, George W., Jersey City, N. J. Condenser for illuminating-gas.	Dec. 21, 1875	692	228	8	1058
164, 366	Edge, William C., Newark, N. J., assignor to Smillie, Dorrance & Edge, New York, N. Y. Die for making the heads of chain-swivels.	June 15, 1875	513	169	7	1020
6, 253	Edgerton, Henry H., Fort Wayne, Ind. Register for gas-meters. (Reissue).	Jan. 26, 1875	878	285	7	167
159, 655	Same. Process of treating hydrocarbons for making gas.	Feb. 9, 1875	390	130	7	246
169, 244	Edgerton, Nathan H., Philadelphia, Pa. Apparatus for producing calcium-light.	Oct. 26, 1875	897	291	8	714
	Edgerton, William W., et al. (See McGhee, William T., assignor.)					
163, 466	Edholm, Gustaf F., Lake City, Minn. Safety-extinguisher for lamps.	May 18, 1875	706	225	7	863
158, 787	Edison, Thomas A., Newark, N. J. Telegraph-apparatus.	Jan. 19, 1875	420	141	7	98
160, 402	Edison, Thomas A., Newark, N. J., assignor to self and George Harrington, Washington, D. C. Solution for chemical-telegraph paper.	Mar. 2, 1875	130		7	367
160, 403	Same. same.	Mar. 2, 1875	130		7	367
160, 404	Same. same.	Mar. 2, 1875	130		7	367
160, 405	Same. Adjustable electro-magnet for relays, &c.	Mar. 2, 1875	131	46	7	367
160, 580	Same. Solution for chemical-telegraph paper.	Mar. 9, 1875	301	102	7	401
162, 633	Same. Duplex telegraph.	Apr. 27, 1875	979	315	7	724
166, 859	Same. Chemical telegraphy.	Aug. 17, 1875	654		8	309
166, 860	Same. same.	Aug. 17, 1875	655		8	309
166, 861	Same. same.	Aug. 17, 1875	655		8	309
168, 004	Edison, Thomas A., Newark, N. J., assignor to Gold and Stock Telegraph Company, New York, N. Y. Printing-telegraph.	Sept. 21, 1875	571	184	8	504
168, 242	Edison, Thomas A., Newark, N. J., assignor to self and George Harrington, Washington, D. C. Transmitter and receiver for automatic telegraphs.	Sept. 28, 1875	823	261	8	545
168, 243	Same. Automatic telegraph.	Sept. 28, 1875	824	262	8	546
168, 385	Edison, Thomas A., Newark, N. J. Duplex telegraph.	Oct. 5, 1875	58	21	8	573
168, 465	Edison, Thomas A., Newark, N. J., assignor to self and George Harrington, Washington, D. C. Solution for chemical telegraphs.	Oct. 5, 1875	128		8	583
168, 466	Same. same.	Oct. 5, 1875	129		8	583
168, 467	Same. Recording-point for chemical telegraphs.	Oct. 5, 1875	129		8	583
169, 972	Edison, Thomas A., and Charles Batchelor, Newark, N. J. Electric-signaling instrument.	Nov. 16, 1875	651	203	8	834
171, 273	Edison, Thomas A., Newark, N. J., assignor to self and George Harrington, Washington, D. C. Telegraph apparatus.	Dec. 21, 1875	616	201	8	1047
171, 274	Edmister, Worden, Hunt's Station, Ohio. Shoe-fastening.	Dec. 21, 1875	617	201	8	1047
	Edmond, J. D. (See Field, James D., assignor.)					
	Edmonds, Charles W. (See Phelps & Edmonds.)					
	Edmonds, George D. (See Flagg, Eli W., assignor.)					
160, 658	Edmunds, James S., Princeton, Ky. Shirt-bosom supporter.	Mar. 9, 1875	371	125	7	411
163, 585	Edsall, David A., New York, N. Y. Inking apparatus for hand-stamps.	May 25, 1875	838	264	7	887
163, 755	Edson, Horace M., Toledo, Ohio. Vulcanizing apparatus for dentists.	May 25, 1875	982	311	7	906
160, 406	Edson, Horace M., and Robert L. Evans, Toledo, Ohio. Dental engine.	Mar. 2, 1875	131	46, 47	7	367
6, 658	Edson, Jacob, Boston, Mass. Street-sweeping machine. (Reissue).	Sept. 28, 1875	888	283	8	555
6, 659	Same. same. (Reissue).	Sept. 28, 1875	889	284	8	555
159, 025	Same. same.	Jan. 26, 1875	674	220	7	138
159, 807	Edson, Nathaniel F., New Orleans, La. Band-saw frame.	Feb. 16, 1875	552	184	7	273
167, 753	Edwards, Addison, Providence, R. I. Loom-shuttle.	Sept. 14, 1875	346	110	8	462
166, 595	Edwards, Albert L., Syracuse, N. Y. Bird-cage.	Aug. 10, 1875	395	122	8	463
166, 596	Same. same.	Aug. 10, 1875	396	122	8	263
	Edwards, Charles P. (See Edwards, William F. and Charles P.)					
162, 134	Edwards, Charles P. and William F., Summit, N. J. Paper-tube machine.	Apr. 27, 1875	980	315	7	724
165, 410	Edwards, Charles R., Buffalo, N. Y. Game-board.	July 13, 1875	280	83	8	54
161, 938	Edwards, Charles T., and George H. Huntoon, Moline, Ill.; said Huntoon assignor to said Edwards. Wind-wheel.	Apr. 13, 1875	320	107	7	625
163, 057	Same. Frame or turn-table for wind-wheels.	May 11, 1875	316	102	7	796
163, 058	Same. Wind-wheel.	May 11, 1875	317	102	7	796
	Edwards, Ernest. (See Atkinson & Edwards.)					
159, 166	Edwards, Ernest, assignor to James R. Osgood, Boston, Mass. Process of preparing gelatine plates for printing.	Jan. 26, 1875	794		7	155
159, 752	Edwards, George K., Philadelphia, Pa. Ironing-table.	Feb. 16, 1875	501	167	7	267
168, 005	Edwards, George W., assignor to self, Lewis M. Adams, and Ezra Codington, Chatham, N. J. Lifting-jack.	Sept. 21, 1875	572	184	8	504
162, 360	Edwards, Henry, Brooklyn, N. Y. Shawl-strap handle.	Apr. 20, 1875	715	233	7	682
168, 468	Edwards, Henry H., Grand Rapids, Mich. Machines for cutting and printing indexes.	Oct. 5, 1875	129	44	8	583
	Edwards, Joel S., et al. (See Millhiser, John L., assignor.)					
6, 433	Edwards, John P., Cleveland, Ohio, and Ambler J. Rogers, Jackson, Mich. Roll for reducing old rails. (Reissue).	May 18, 1875	805	255	7	875
	Edwards, John S., et al. (See Berchtold, Fidele, assignor.)					
6, 410	Edwards, Oliver, Florence, Mass. Skate. (Reissue).	May 4, 1875	244	78	7	779
6, 676	Same. same. (Reissue).	Oct. 5, 1875	219	71	8	595
163, 307	Same. same.	May 18, 1875	568	182	7	845
163, 308	Same. same.	May 18, 1875	569	182	7	845
169, 344	Edwards, Oliver, Florence, Mass., assignor to Florence Sewing Machine Company. Stand or holder for hose-pipe nozzles.	Nov. 2, 1875	19	6	8	737
170, 943	Edwards, Oliver, Florence, Mass. Skate.	Dec. 14, 1875	274	91	8	994
	Edwards, R. J. (See Westwick, James B., assignor.)					
165, 989	Edwards, Thomas M., East Hampton, N. Y. Horse hay-rake.	July 27, 1875	855	263	8	162
166, 455	Edwards, Tryon, Hagerstown, Md. Head-rest for car-seats.	Aug. 10, 1875	279	83	8	246
	Edwards, William F. (See Edwards, Charles P. and William F.)					
162, 135	Edwards, William F. and Charles P., Summit, N. J. Calendering-machine.	Apr. 27, 1875	981	315	7	724
	Esge, Fred., et al. (See Hotchkiss, Arthur E., assignor.)					
	Esge, Frederick. (See Smith & Esge.)					

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171, 364	Egge, Frederick, Bridgeport, Conn., assignor to Paul A. Oliver, Wilkesbarre, Pa. Powder-can	Dec. 21, 1875	692	228	8	1058
162, 636	Eggleston, Charles H., and William M. Phelps, assignors of one-half interest to C. S. } Crane, Marshall, Mich. Windmill	Apr. 27, 1875	982	{ 315 316 }	{ 7 7 }	{ 724 474 }
161, 016	Eggleston, Jesse S., Auburn, N. Y. Vehicle-axle lubricator	Mar. 23, 1875	716	236	7	474
161, 017	Same.....Car-axle lubricator	Mar. 23, 1875	717	237	7	474
167, 082	Egler, Jacob D., Pittsburgh, Pa. Wash-boiler	Aug. 24, 1875	879	275	8	349
163, 467	Egleston, Henry, Saint Joseph County, Mich. Shaping-block for garments	May 18, 1875	706	226	7	863
161, 939	Ehret, Anatole, San Francisco, Cal. Gas-burner for heating purposes	Apr. 13, 1875	321	108	7	625
170, 536	Ehrichson, Osmus J., assignor to Ferdinand Schumacher, Akron, Ohio. Oatmeal-machine	Nov. 30, 1875	1203	379	8	926
164, 822	Eichbaum, Frederick H., Detroit, Mich., assignor of two-thirds interest to William W. Horton, J. T. Salter, J. H. Sheldon, and James Aiken, Chicago, Ill. Process for the manufacture of illuminating-gas	June 22, 1875	935	.....	7	1084
165, 809	Same.....Apparatus for supplying liquid hydrocarbon to gas-making retorts	July 20, 1875	667	204	8	124
166, 352	Eichbaum, Frederick H., and Andrew G. Hunter, Detroit, Mich. Process of manufacturing gas	Aug. 3, 1875	151	.....	8	221
168, 006	Eichbaum, Frederick H., Detroit, Mich., assignor of two-thirds interest to William W. Horton, J. T. Salter, J. H. Sheldon, and James Aiken, Chicago, Ill. Gas apparatus	Sept. 21, 1875	573	185	8	504
164, 821	Eichholz, Adolph, Saint Louis, Mo. Bale-tie	June 22, 1875	934	302	7	1084
167, 512	Eichholtz, George W., North Manchester, Ind. Churn-dasher	Sept. 7, 1875	114	36	8	423
	Eichholtz, John M. (See Frey & Eichholtz).....(Reissue.)					
169, 973	Eichholz, John H., Brooklyn, N. Y., assignor to self and Horace A. Green, New York, N. Y. Gas apparatus	Nov. 16, 1875	652	204	8	835
	Eickemeyer Felting Company. (See Eickemeyer, Rudolph, assignor).....(Reissue.)					
6, 311	Eickemeyer, Rudolph, Yonkers, N. Y. Sewing-machine for sewing the sweat-lining of hats	Mar. 2, 1875	224	77	7	381
6, 358	Eickemeyer, Rudolph, Yonkers, N. Y., assignor to Eickemeyer Felting Company. Fulling-mill	Mar. 30, 1875	1287	414	7	555
162, 540	Eickemeyer, Rudolph, Yonkers, N. Y. Hat-stretching machine	Apr. 27, 1875	905	269	7	714
167, 083	Same.....Machine for shaping and blocking hats	Aug. 24, 1875	880	{ 275 276 }	{ 8 8 }	{ 349 408 }
167, 391	Same.....Hat-stretching machine	Sept. 7, 1875	11	3	8	408
167, 513	Same.....Process of stiffening hats	Sept. 7, 1875	115	36	8	423
168, 731	Same.....Machine for stretching hat-bodies	Oct. 11, 1875	399	130	8	629
	Eigelberner, T. F. (See Mooney, Joseph E., assignor.)					
	Eilmann, Henry. (See Voigt & Eilmann.)					
153, 645	Eisenhart, Charles A., and Edmund E. Lauer, York, Pa. Wringing-machine	May 25, 1875	890	{ 281 282 }	{ 7 7 }	{ 894 1112 }
164, 984	Eisenmann, Emil F. W., New York, N. Y. Combined cigar-tip cutter and watch-charm	June 29, 1875	1099	355	7	1112
170, 719	Eitel, John, Sacramento, Cal. Combined twine-cutter, letter-opener, and stamp-moistener	Dec. 7, 1875	60	18	8	958
162, 463	Elam, Jabez, assignor to Rich. Trenaman, Rochester, N. Y. Insole or former for use in making boots and shoes	Apr. 27, 1875	837	270	7	706
170, 356	Elbreg, George, Cincinnati, Ohio. Fire-lighter	Nov. 23, 1875	1021	320	8	893
	Elder, Adelaide S., executrix. (See Elder, Roscoe G.).....(Reissue.)					
158, 692	Elder, John, jr., New York, N. Y. Automatic valve for steam-radiators	Jan. 12, 1875	317	108	7	68
6, 657	Elder, Roscoe G., deceased, by Adelaide S. Elder, executrix and assignor to A. W. Daby. Child's carriage	Sept. 28, 1875	887	283	8	555
167, 754	Eldredge, Alonzo W., Big Rapids, assignor of one-fourth interest to Fitch Phelps, Mecosta, Mich. Oscillating balanced valve	Sept. 14, 1875	346	110	8	462
161, 602	Eldredge, Martin F., Lynn, Mass. Fire-escape	Apr. 6, 1875	13	5	7	570
166, 864	Eldridge, David, Philadelphia, Pa. Fare-register	Aug. 17, 1875	657	204	8	309
	Eldridge, Orin S. (See Eldridge, Randall H. and Orin S.)					
164, 367	Eldridge, Randall H. and Orin S., Lowell, Mass. Machine for making pins and dowels	June 15, 1875	515	169	7	1020
163, 756	Eldridge, Rinaldo, Harwich, Mass. Carriage-jack	May 25, 1875	982	311	7	906
	Eley, Aaron. (See Ney, John, jr., assignor.)					
158, 634	Elford, Alfred T., Oakland, Cal. Blind-stop	Jan. 12, 1875	265	90	7	61
164, 279	Eliason, William A., assignor of one-half interest to Jacob H. Best, Statesville, N. C. Farm-fence	June 8, 1875	417	139	7	998
169, 156	Ellenberger, Gustav, Bidekopt, Prussia. Process and apparatus for mashing and cooling	Oct. 26, 1875	822	267	8	704
162, 361	Eller, John, Jersey City Heights, N. J. Awning	Apr. 20, 1875	715	233	7	682
170, 537	Elliot, George, Saint Louis, Mo. Railway-frog	Nov. 30, 1875	1203	379	8	926
166, 921	Elliot, John W., Toronto, Canada. Stove	Aug. 24, 1875	727	225	8	328
159, 567	Elliot, William, Williamsford, Canada. Mill-spindle	Feb. 9, 1875	319	104	7	336
6, 447	Elliot, William H., New York, N. Y. Bedstead-fastening	May 25, 1875	1058	334	7	916
163, 468	Same.....same	May 18, 1875	707	226	7	863
163, 646	Same.....Breech-loading fire-arm	May 25, 1875	891	282	7	894
163, 757	Same.....Bedstead-fastening	May 25, 1875	983	311	7	906
163, 982	Same.....same	June 1, 1875	119	40	7	947
168, 562	Same.....Revolving fire-arm	Oct. 11, 1875	245	80	8	606
169, 683	Elliot, William H., Ilion, N. Y. Carriage-spring	Nov. 9, 1875	361	114	8	790
169, 896	Elliot, William H., New York, N. Y. Apparatus for transferring goods to and from cars	Nov. 16, 1875	588	183	8	826
166, 756	Elliott, Alvin D., George E. Fellows, and Stephen A. Simmons, Lawrence, assignors to James W. Brooks, trustee, Boston, Mass. Heeling-machine	Aug. 17, 1875	560	172	8	295
163, 059	Elliott, Caleb, Richmond, Ind. Wood-screw machine	May 11, 1875	319	{ 102 103 }	{ 7 7 }	{ 796 958 }
170, 720	Elliott, George E., Saint Andrews, Canada. Mariner's log	Dec. 7, 1875	60	18	8	958
	Elliott, George N. (See Howenstine, David J., assignor.)					
171, 365	Elliott, James J., Renovo, Pa. Spool-holder	Dec. 21, 1875	693	228	8	1058
	Elliott, John G., et al. (See Hall, Asa, assignor.)					
159, 250	Elliott, Josiah S., Chelsea, Mass. Stove-pipe thimble	Feb. 2, 1875	8	3	7	186
163, 369	Same.....Knife-grinding machine	May 18, 1875	623	199	7	852
6, 793	Elliott, Robert, Chester, Pa. Shedding mechanism for looms	Dec. 14, 1875	533	176	8	1028
165, 160	Elliott, Stephen, Indianapolis, Ind. Sad-iron	July 6, 1875	13	4, 5	8	10
164, 437	Elliott, Sterling, assignor to Sterling Treadle Company, New Haven, Conn. Treadle	June 15, 1875	582	189	7	1028
163, 856	Elliott, William B., Corning, N. Y. Extensible ladder	June 1, 1875	18	6	7	933
165, 081	Elliott, William P., assignor to self and James M. Forshee, Wilmington, N. C. Bale-tie	June 29, 1875	1183	380	7	1124
159, 168	Ellis, Charles P., Parker City, Pa. Twine-cutter	Jan. 26, 1875	796	261	7	155
159, 167	Same.....Shoe-blackening case	Jan. 26, 1875	795	261	7	155
164, 156	Ellis, Charles R., Brooklyn, N. Y. Radiator for steam-heaters	June 8, 1875	300	102	7	983
165, 411	Ellis, George L., New Albany, Ind., assignor of one-half interest to W. T. Ellis, Louisville, Ky. Peg-cutter for boots and shoes	July 13, 1875	281	83	8	54
161, 217	Ellis, George T., assignor of one-half interest to H. Lord, Oswayo, Pa. Road-engine	Mar. 23, 1875	900	{ 295 296 }	{ 7 7 }	{ 497 497 }

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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161, 218	Ellis, George T., assignor of one-half interest to H. Lord, Oswayo, Pa. Rotary engine ..	Mar. 23, 1875	904	296	7	498
159, 503	Ellis, J. Alder, Chicago, Ill. Iron tip for vehicle-poles ..	Feb. 9, 1875	261	85	7	228
160, 262	Same..... Whiffletree-clip.....	Mar. 2, 1875	7	4	7	350
161, 603	Same..... Axle-skein ..	Apr. 6, 1875	13	5	7	570
	Ellis, James M. (See Doolittle & Ellis.)					
	Ellis, J. M. (See Moulton, George H., assignor.)					
161, 604	Ellis, John F., Toronto, Canada. Envelope-cutting machine ..	Apr. 6, 1875	14	6	7	570
168, 888	Ellis, John H., Peoria, Ill. Air-pump ..	Oct. 19, 1875	548	179	8	658
170, 538	Ellis, Joseph W., assignor of one-half interest to Jacob H. Armbruster, Philadelphia, Pa. Machine for turning carriage-axles ..	Nov. 30, 1875	1204	380	8	926
	Ellis, Rodney. (See Dougherty, John S., assignor.)					
169, 245	Ellis, Stephen K., Waltham, Mass. Suspender ..	Oct. 26, 1875	898	292	8	714
	Ellis, W. T. (See Ellis, George L., assignor.)					
165, 664	Ellis, William, assignor of one-fourth interest to William G. Case, Columbia, Pa. Cigar-box ..	July 20, 1875	534	163	8	106
163, 857	Ells, Josiah, Pittsburgh, Pa. Manufacture of sheet-iron ..	June 1, 1875	20	6	7	933
161, 496	Ellsworth, Oliver, Boston, Mass. Curtain-fixture ..	Mar. 30, 1875	1196	384	7	543
170, 072	Ellsworth, Oliver, Newton, Mass. Curtain roller and bracket ..	Nov. 16, 1875	745	236	8	847
163, 169	Ellwood, Reuben, Sycamore, Ill. Fence-wire ..	May 11, 1875	421	136	7	809
162, 808	Ellyson, Thomas J., and Aaron O. Askew, Jackson, Tenn. Sad-iron ..	May 4, 1875	68	22	7	756
	Elmenhorst, Walter R. (See Dinkel & Elmenhorst.)					
	Elmer, Albert E. (See Palmer & Elmer.)					
	Elmira Steam Engine Company. (See Clark, John C., administrator.)					
165, 082	Elms, William, Dover, assignor to Alfred S. Varney, Old Town, Me. Car-replacer ..	June 29, 1875	1184	381	7	1124
	Elrod, Charles W. (See Wilson, John G., assignor.)					
	Elsas, May & Co. (See Langgesser, Emil, assignor.)					
	Elston, David, et al. (See Jones, Gilbert D., assignor.)					
158, 410	Elverud, Jens, Red Wing, Minn. Corn-planter ..	Jan. 5, 1875	52	18	7	16
6, 359	Elward, John H. (See Rynearson, John, assignor.) (Reissue.)					
	Elward, John H., Saint Paul, Minn., assignor to self and Wayland S. Goodhue. Harvester ..	Mar. 30, 1875	1290	414	7	556
6, 395	Elward, John H., assignor to self and Wayland S. Goodhue, Saint Paul, Minn. Harvester ..	Apr. 20, 1875	823	265	7	695
6, 403	Elward, John H., Saint Paul, Minn., assignor to self and Wayland S. Goodhue. Harvester ..	Apr. 27, 1875	1100	347	7	738
161, 395	Elward, John H., Saint Paul, Minn. Harvester ..	Mar. 30, 1875	1094	355	7	530
161, 396	Same..... same ..	Mar. 30, 1875	1096	356	7	530
165, 316	Same..... same ..	July 6, 1875	157	47, 48	8	30
170, 357	Elwell, Henry H., assignor to Norwalk Lock Company, Norwalk, Conn. Sliding-door pull ..	Nov. 23, 1875	1022	320	8	893
163, 309	Ely, Charles R., Northfield, Vt. Head-block for saw-mills ..	May 18, 1875	569	182	7	845
	Ely, George H. (See Topliff, John A., assignor.)					
170, 623	Ely, Homer, Ballston Spa, N. Y. Process of preparing hides and skins for tanning ..	Nov. 30, 1875	1290	.....	8	937
	Embossing Company. (See Hyatt, Charles M., assignor.)					
	Same..... (See Hyatt, Isaiah S., John W., and Charles M., assignors.)					
167, 084	Embree, Pearson, West Chester, Pa. Butter-worker ..	Aug. 24, 1875	885	276	8	350
161, 105	Emerson, James E., Beaver Falls, Pa. Handle for crosscut-saws ..	Mar. 23, 1875	804	264	7	485
167, 882	Same..... Mode of inserting diamonds into saws for sawing stone ..	Sept. 21, 1875	476	151	8	489
170, 833	Same..... Cross-cut saw ..	Dec. 7, 1875	159	53	8	972
168, 007	Emerson, Lowe, Alexander J. Clark, and John T. Richmond, Cincinnati, Ohio. Former for bending carriage-seat irons ..	Sept. 21, 1875	575	185	8	505
	Emerson, Ralph, et al. (See Barnes, John, assignor.)					
	Emerson, Ralph. (See Behel, Jacob, assignor.)					
	Emerson, Ralph, et al. (See Burson & Nelson, assignors.)					
	Same..... (See Cook, Andrew J., assignor.)					
159, 656	Emery, Charles B., Boston, Mass., and Samuel W. Emery, Portland, Me. Anti-friction device for car-wheels ..	Feb. 9, 1875	391	130	7	246
160, 817	Emery, Charles E., Brooklyn, N. Y. Compound engine ..	Mar. 16, 1875	540	175	7	440
165, 990	Same..... Steam-boiler ..	July 27, 1875	856	263, 264	8	162
171, 218	Same..... Hydraulic cushion-valve ..	Dec. 21, 1875	563	185	8	1040
159, 251	Emery, Francis W. R., assignor of one-half interest to Daniel M. Ferren, Taunton, Mass. Vehicle-wheel ..	Feb. 2, 1875	9	3	7	186
161, 018	Emery, Harriet G., Boston, Mass. Abdominal corset ..	Mar. 23, 1875	718	237	7	474
161, 019	Same..... Method of manufacturing corsets ..	Mar. 23, 1875	720	237	7	474
163, 983	Same..... Corset ..	June 1, 1875	119	40	7	947
	Emery, John A. (See Stuart & Emery.)					
	Emery, Samuel W. (See Emery, Charles B. and Samuel W.)					
170, 160	Emig, George, Cincinnati, Ohio. Screw-cutting machine ..	Nov. 23, 1875	850	266	8	868
	Emmerich, Francis. (See Battermann, Henry, assignor.)					
159, 657	Emmert, John, assignor of one-half interest to A. B. Thayer, Lanark, Ill. Stove-pipe shelf ..	Feb. 9, 1875	392	130	7	247
170, 944	Emmert, William P., Freeport, Ill. Animal-power ..	Dec. 14, 1875	275	92	8	994
	Emrath, Philipp, et al. (See Kahler, Conrad, assignor.)					
161, 397	Emry, David F., Canton, Ill. Cider-press ..	Mar. 30, 1875	1098	356	7	530
	Enbody, Nehemiah. (See Dinkey, Enbody & Bradley.)					
159, 504	Ende, Thomas, New York, N. Y. Size compound ..	Feb. 9, 1875	261	.....	7	228
160, 887	Enders, Joseph, Louisville, Ky. Carriage-spring ..	Mar. 16, 1875	596	194	7	448
162, 362	Endres, John J., Jersey City, N. J., assignor of one-half interest to L. L. Crounse, Washington, D. C. Artificial fuel ..	Apr. 20, 1875	716	.....	7	682
162, 363	Same..... Machine for the manufacture of artificial fuel ..	Apr. 20, 1875	717	233, 234	7	682
164, 820	Engel, Albert, Geestemunde, Prussia. Dental forceps ..	June 22, 1875	933	302	7	1083
161, 332	Engel, Joseph, Frankfort-on-the-Main, Germany, assignor of one-half interest to George L. Palmer, Wilkesbarre, Pa. Combined tippet and muff ..	Mar. 30, 1875	1032	336	7	522
168, 628	Engelhardt, William E., College Point, N. Y. Cane-umbrella ..	Oct. 11, 1875	311	101	8	616
8, 800	England, Joseph H., Baltimore, Md. Box .. (Design) ..	Nov. 23, 1875	.....	.....	8	862
	Engle, Jacob S., et al. (See Winton, Albert, assignor.)					
169, 974	Engle, Jacob S., Palmyra, Pa. Pump-plunger ..	Nov. 16, 1875	653	204	8	835
169, 345	Engle, Stephen D., Hazleton, Pa., assignor to Samuel S. White, Philadelphia, Pa. Dental engine ..	Nov. 2, 1875	20	6	8	737
160, 659	Englebert, Henry, Rutherford Park, N. J. Feed-bag for horses ..	Mar. 9, 1875	372	125	7	411
160, 089	Englehart, Jacob L., New York, N. Y. Butter-worker ..	Feb. 23, 1875	827	272	7	317
167, 392	English, Henry C., Wilmington, Del. Ratchet-drill ..	Sept. 7, 1875	13	4	8	408
	English, Joseph K., et al. (See King, Jacob, assignor.)					

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160, 888	English, Nathan F., Hartland, and Cyrenius M. Willard, Pittsford, Vt.; said English assignor to said Willard. Machine for channeling and sawing stone	Mar. 16, 1875	597	194	7	448
164, 080	English, Nathan F., Hartland, Vt., assignor to A. Lapham, Washington, D. C., and George H. Osborn, Pittsford, Vt. Annealing wire	June 8, 1875	236	82	7	974
164, 280	Ennis, George W. (See Hoffman & Shoemate, assignors.)	June 8, 1875	418	140	7	998
163, 858	Ennis, William, New York, N. Y. Fire-box	June 1, 1875	21	7	7	933
165, 810	Enos, Frank, Mineral City, Nev. Attachment for cooking-stoves	July 20, 1875	668	204 205	8	125
169, 531	Enright, Joseph, San José, Cal. Boiler for portable engines	Nov. 2, 1875	185	63	8	760
	Same..... Steam-boiler furnace					
	Enterprise Manufacturing Company. (See Baker, John G., assignor.)					
	Enterprise Manufacturing Company of Pennsylvania. (See Baker, John G., assignor.) (Design.)					
163, 170	Entekin, William G. (See Bramble, James, jr., assignor.)	May 11, 1875	421	137	7	809
165, 083	Entekin, William G., Philadelphia, Pa. Photograph-burnisher	June 29, 1875	1184	381	7	1124
160, 757	Epeneter, John, and Carl B. Grahl, Council Bluffs, Iowa. Sieve	Mar. 16, 1875	484	158	7	433
166, 975	Eppelsheimer, William, San Francisco, Cal. Clamp apparatus for connecting street-cars, &c., with endless traveling devices	Aug. 24, 1875	779	240	8	335
166, 976	Same..... Device for propelling cars	Aug. 24, 1875	280	241	8	335
	Same..... Means for turning cars on short curves					
159, 399	Eppler, Andrew. (See Hull & Eppler.)	Feb. 2, 1875	141	48	7	204
160, 660	Erbach, Valentin, Hyde Park, Pa. Car-coupling	Mar. 9, 1875	372	125	7	411
167, 230	Erbe, Bartel, Pittsburgh, Pa., assignor to self and Samuel H. Jacobus, Allegheny, Pa. Folding door-key	Aug. 31, 1875	1039	323	8	378
164, 823	Erdman, Edward M., Lykens, Pa. Furnace-grate bar	June 22, 1875	936	302	7	1084
159, 568	Erikson, John, assignor of one-half interest to Nelson Oleson, Minneapolis, Minn. Water-wheel	Feb. 9, 1875	320		7	336
158, 835	Erlenmeyer, Erwin, Houston, Tex. Composition for filling teeth	Jan. 19, 1875	467	157	7	104
170, 073	Erlin, Gustave, San Francisco, Cal. Mortising-tool	Nov. 16, 1875	746	236	8	847
162, 364	Ernst, Joseph, assignor of one-half interest to Joseph Kempf, Central City, Colo. Bottle	Apr. 20, 1875	718	234	7	682
164, 438	Erskine, Charles. (See Erskine, Irving and Charles.)	June 15, 1875	582	189	7	1028
171, 003	Erskine, Irving and Charles, Bowling Green, Ky. Ladder	Dec. 14, 1875	313	111	8	1002
169, 157	Ervin, John F., Vinton, Iowa. Mold for shaping wax comb-guides for hives	Oct. 26, 1875	824	267	8	704
160, 172	Esche, Otto, Milwaukee, Wis. Draw-bridge gate	Feb. 23, 1875	895	295	7	328
165, 317	Eselman, Abraham, Earlsville, Pa. Trammer for millstone-spindles	July 6, 1875	160	48	8	30
168, 008	Eskey, Samuel S., assignor to Thomas P. Butcher, Parkersburgh, W. Va. Machine for making wooden pins	Sept. 21, 1875	576	185	8	505
165, 084	Esler, Robert B., Philadelphia, Pa. Charm for watch-chains	June 29, 1875	1185	381	7	1124
166, 085	Espach, Seraphin, Cincinnati, Ohio, assignor to self and John R. R. Lindon. Horseshoe-machine	July 27, 1875	945	292	8	175
171, 367	Essex, Henry, Meadville, Pa. Hot-blast furnace	Dec. 21, 1875	695	229	8	1058
	Estes, Henderson, Saint Louis, Mo. Bale-tie					
	Estes, William A., China, Me. Truck					
	Same..... (See Fuller, Levi K., assignor.)					
	Estey & Co., J. (See White, Henry K., assignor.)					
	Esty, William. (See Putnam & Esty.)					
170, 358	Esworthy, Alonzo C. and Thomas T., Philadelphia, Pa. Combined burnisher and seat-wheel for boots and shoes	Nov. 23, 1875	1023	321	8	893
	Esworthy, Thomas T. (See Esworthy, Alonzo C. and Thomas T.)					
169, 793	Etebison, Henry N. (See Delaplaine, Theodore C., assignor.)	Nov. 9, 1875	480		8	805
160, 407	Etheridge, James H., Chicago, Ill. Manufacture of spiegel-eisen	Mar. 2, 1875	132	47	7	368
159, 169	Ettinger, William, et al. (See Hussey, Marcus L. M., assignor.)					
159, 658	Eubank, John James, Winchester, Ky. Umbrella	Jan. 26, 1875	797	261	7	156
166, 757	Euchenhofer, Edward E. (See Breidenbach & Euchenhofer.)	Feb. 9, 1875	393	131	7	247
166, 977	Eustace, Marcus, Highfield, assignor to James and Thomas Kennan, Dublin, Ireland. Machine for thinning crops	Aug. 17, 1875	561	172	8	295
	Same..... Machine for thinning or spacing crops	Aug. 24, 1875	781	241	8	335
	Same..... Furnace for smelting ore					
	Evans, Alexander H. (See Redmond & Rhodes, assignors.)					
171, 368	Evans, Barnabus D. (See Lord & Evans.)	Dec. 21, 1875	696	229	8	1058
168, 889	Evans, Charles W., Cincinnati, Ohio. Sheet-metal roof	Oct. 19, 1875	549	180	8	659
170, 549	Evans, Christopher R., New Orleans, La. Street-railway switch	Nov. 30, 1875	1206	380	8	926
160, 758	Evans, Clarence A., Upland, Pa. Station-indicator	Mar. 16, 1875	486	158	7	433
171, 112	Evans, Edwin, Lynn, Mass. Gas-burner	Dec. 14, 1875	429	143	8	1015
6, 622	Same..... Globe for burners	Aug. 31, 1875	1172	369	8	398
170, 721	Evans, George F., Poland, Me. Animal-shearing machine. (Reissue)	Dec. 7, 1875	61	18	8	958
169, 684	Evans, George M., Pittsburgh, Pa. Bench-vise	Nov. 9, 1875	362	114	8	790
163, 469	Evans, Holland B., and Earnest G. Kemper, Saint Charles, Mo. Brick-kiln	May 18, 1875	708	226	7	863
160, 408	Evans, Lewis D., Newark, Ohio. Car-coupling	Mar. 2, 1875	133	47	7	368
161, 769	Evans, Louis, Pittsburgh, Pa. Tea and coffee pot	Apr. 6, 1875	154	53	7	591
166, 196	Same..... Ice-pitcher	Aug. 3, 1875	13	5	8	201
166, 922	Evans, Lucius, Fayetteville, N. Y. Feed-cutting machine	Aug. 24, 1875	727		8	328
162, 810	Evans, Oliver B., Titusville, Pa. Photographic plate	May 4, 1875	70	22	7	756
	Evans, Owen, Halifax, Canada. Fret-saw frame					
	Evans, Robert L. (See Edson & Evans.)					
160, 889	Evans, Silvanus P., Ash Ridge, Ohio. Gang corn-planter	Mar. 16, 1875	599	195	7	448
167, 231	Evans, Thomas, South Manchester, Conn. Stop-motion for steam-engines	Aug. 31, 1875	1039	323	8	378
163, 171	Evans, Thomas R., Philadelphia, Pa. Boot and shoe	May 11, 1875	422	137	7	810
170, 359	Same..... same	Nov. 23, 1875	1023	321	8	893
159, 659	Same..... same	Feb. 9, 1875	395	132	7	247
169, 346	Evans, William, Chicago, Ill. Stove-platform	Nov. 2, 1875	22	7	8	732
169, 347	Same..... same	Nov. 2, 1875	23	7	8	738
169, 532	Evans, William C., Philadelphia, Pa. Oscillating printing-press	Nov. 2, 1875	186	63	8	760
166, 597	Evans, William D., Society Hill, S. C. Cotton-chopper	Aug. 10, 1875	397	122	8	263
162, 809	Evans, William J., Houghton, Mich. Ore-separator	May 4, 1875	69	22	7	756
6, 677	Evans, William W., Georgetown, D. C., assignor to Samuel S. White, Philadelphia, Pa. Dental engine	Oct. 5, 1875	221	72	8	595
170, 834	Same..... same					
	Evans, William W., Georgetown, assignor to self and William D. Baldwin, Washington, D. C. Window-sash	Dec. 7, 1875	160	53, 54	8	972
167, 085	Evarts, James M., New Haven, Conn. Pipe-tongs	Aug. 24, 1875	886	276	8	350
171, 111	Evarts, John A., assignor to Bradley and Hubbard Manufacturing Company, West Meriden, Conn. Lamp	Dec. 14, 1875	429	143	8	1015

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 147	Evereden, John C., et al. (See Strickler, Walter C., assignor). (Reissue.)	Sept. 28, 1875	743	234	8	534
	Everding, John, Philadelphia, Pa. Marine-engine governor.					
	Everett, Benjamin C. (See Kimball, Hiram A., assignor.)					
	Everett, Edward. (See Kipp, Abraham, jr., assignor.)					
	Everham, William. (See Hitchcock, George, assignor.)					
6, 690	Everiss, Alfred, New York, N. Y. Gathering attachment for sewing-machines. (Reissue.)	Oct. 11, 1875	482	157	8	640
164, 281	Everitt, Edwin B., West Meriden, Conn. Adjustable key-fastener.	June 8, 1875	418	140	7	998
160, 890	Everitt, Elisha E., Philadelphia, Pa. Endless-chain propeller.	Mar. 16, 1875	599	195	7	448
168, 732	Same. Combined desk and wash-stand.	Oct. 11, 1875	402	131	8	629
166, 691	Everson, Charles R., and Leonard L. Cramer, Macedon, N. Y. Boiler washing-machine.	Aug. 17, 1875	499	152 } 153 }	8	286
164, 439	Everson, George R., Cincinnati, Ohio. Motor for sewing-machines.	June 15, 1875	583	190	7	1029
	Evitt, John. (See Evitt, Robert and John.)					
165, 085	Evitt, Robert and John, Baltimore, Md. Toe-protector for boots and shoes.	June 29, 1875	1185	381	7	1124
170, 722	Ewald, Robert, assignor to George Brown and Charles F. Bliss, New York, N. Y. Corner for tables.	Dec. 7, 1875	62	19	8	959
162, 908	Ewart, John, assignor of one-fourth interest to John Bailey, Lawrence, Mass. Railway-signaling apparatus.	May 4, 1875	157	51	7	767
6, 387	Ewart, William D., Belle Plain, Iowa. Drive-chain. (Reissue.)	Apr. 20, 1875	811	263	7	694
163, 004	Ewing, James M., assignor of one-half interest to J. L. McGee, Washington, D. C. Metal wear-plate for the tread of boot and shoe heels.	May 11, 1875	267	87	7	790
	Ewing, Thomas. (See Taylor, David, assignor.)					
	Excelsior Flint-Glass Company. (See Lowery, John, assignor.)					
	Excelsior Stove Works. (See Wood, Samuel, assignor.)					
164, 157	Exton, Adam and John, Trenton, N. J. Cracker-machine.	June 8, 1875	301	103	7	983
164, 282	Same. same.	June 8, 1875	419	140	7	998
164, 283	Same. same.	June 8, 1875	420	140	7	998
	Exton, John. (See Exton, Adam and John.)					
167, 323	Eynon, William, and Richard C. Cook, Hyde Park, Pa. Miner's lamp.	Aug. 31, 1875	1116	351	8	389
161, 398	Eyquem, Jean, Paris, France. Manufacture of steel.	Mar. 30, 1875	1099		7	531
165, 553	Fabj, Frank, Galveston, Tex. Seat for water-closets.	July 13, 1875	415	125	8	74
164, 537	Facer, Wilson E., Toronto, Canada. Fire-alarm signal-box.	June 15, 1875	664	215	7	1039
	Fagan, Michel G. (See Corse & Fagan.)					
170, 835	Fagan, Michel G., assignor to self and Albert C. Corse, Troy, N. Y. Grate.	Dec. 7, 1875	161	54	8	972
169, 246	Fagley, John S., assignor to self and Ephraim H. Smith, Philadelphia, Pa. Machine for cutting match-sticks.	Oct. 26, 1875	898	292	8	714
169, 348	Fahlberg, Constantin, New York, N. Y. Chemist's test apparatus.	Nov. 2, 1875	24	7	8	738
	Fahy, John L. (See Page & Fahy.)					
6, 365	Fairbairn, William U., Boston, Mass., assignor to self, W. S. Chamberlin, and C. E. Randall. Copying-press. (Reissue.)	Apr. 6, 1875	233	78	7	602
166, 516	Fairbank, Lemuel G., Chicago, Ill. Combined reading and writing desk.	Aug. 10, 1875	327	99	8	253
169, 794	Fairbank, William H., assignor of one-half interest to H. B. Holton, Albion, Ind. Ice-boat.	Nov. 9, 1875	480	151	8	805
	Fairbanks & Co., E. and T. (See Stetson, Thomas D., assignor.)					
162, 279	Fairbanks, Chester M., Lebanon, N. H., assignor to Lane Manufacturing Company, Montpelier, Vt. Circular-saw mill.	Apr. 20, 1875	637	208	7	673
165, 665	Fairbanks, Henry B., Manchester, N. H. Screen-supporter for cribs and cradles.	July 20, 1875	535	163	8	106
163, 060	Fairbanks, Thaddeus, Saint Johnsbury, Vt. Weighing-scales.	May 11, 1875	321	103 } 104 }	7	796
168, 629	Same. Railway-track scales.	Oct. 11, 1875	312	101 } 102 }	8	616
169, 630	Same. same.	Nov. 9, 1875	305	98	8	783
164, 824	Fairchild, Benjamin, Washington, D. C. Folding work-table.	June 22, 1875	936	303	7	1084
166, 353	Fairchild, Curtis T., Hartford, N. Y., assignor to Burrell, Ives & Co. Veneer-cutting machine.	Aug. 3, 1875	152	47	8	221
158, 579	Fairfax, Joseph S., Baltimore, Md. Rotary engine.	Jan. 12, 1875	215	73	7	54
	Fairfield, George W. (See Hutchinson & Fairfield.)					
	Fairfield, Hadley P. (See McKay & Fairfield.)					
	Same. (See McKay, Fairfield & Glidden.)					
	Faitonte, John D., et al. (See Long, Charles B., assignor.)					
159, 660	Faivre, Charles, Paris, France. Mode of obtaining motive-power.	Feb. 9, 1875	396	132	7	247
166, 517	Falcon, Manuel J. S., Philadelphia, Pa. Wooden-soled boot and shoe.	Aug. 10, 1875	328	99	8	253
170, 161	Same. same.	Nov. 23, 1875	851	266	8	868
	Fales, Andrew B. (See Hermance, Richard M., assignor.)					
167, 086	Fales, Eben C., Foxborough, Mass. Machine for blocking hats.	Aug. 24, 1875	887	277	8	350
	Fales, Jenks & Sons, et al. (See Rabbeth & Atwood, assignors). (Reissue.)					
	Fales, Levi S. (See Neff & Fales.)					
160, 759	Fales, Levi S., Cincinnati, and Peter Neff, Gambier, Ohio. Manufacture of lamp-black.	Mar. 16, 1875	486		7	433
162, 811	Fales, Shepherd, Saint Joseph, Mo. Fire-proof shutter.	May 4, 1875	70	22	7	756
169, 685	Fallis, Isaac L., assignor of one-half interest to Ferdinand Stephan, Dayton, Ohio. Apparatus for detaching horses from carriages.	Nov. 9, 1875	363	114	8	790
166, 865	Fallis, William L., Wesley, Pa. Meat-chopper.	Aug. 17, 1875	658	204	8	309
168, 148	Fallon, Stephen, Brooklyn, N. Y. Spring rocking-chair.	Sept. 28, 1875	745	235	8	534
171, 555	Faloon, Matthew, and David H. Iseminger, Bloomington, Ill. Apparatus for lighting street-lamps.	Dec. 28, 1875	886	290	8	1092
164, 726	Fanjoy, George A., Williamsburgh, N. Y. Child's swing.	June 22, 1875	847	275	7	1073
159, 753	Fanning, David H., Worcester, Mass. Corset.	Feb. 16, 1875	502	167	7	267
163, 586	Faraday, John, assignor of one-half interest to William P. Kirk, Chester, Pa. Wood-boring machine.	May 25, 1875	839	265	7	857
166, 518	Farcot, Eugene, Paris, France. Device for winding clocks.	Aug. 10, 1875	329	100	8	253
	Fargo & Co., C. H., et al. (See White, Hugh, assignor.)					
163, 172	Faries, Henry V., Topeka, Kans. Smoke-stack for locomotives.	May 11, 1875	423	137	7	810
168, 975	Farmer, David J., Penn Yan, N. Y. Machine for drawing and polishing bars.	Oct. 19, 1875	630	209	8	670
168, 244	Farmer, David J. and Samuel, assignors to Fred S. and Hartley K. Armstrong, and David J., and J. P. Farmer, Penn Yan, N. Y. Horseshoe-nail machine.	Sept. 28, 1875	825	262 } 263 }	8	546
8, 443	Farmer, George P., Brooklyn, N. Y., assignor to Erasmus C. and John H. Pratt, England, and George P. Farmer, New York, N. Y. Card of buttons. (Design.)	June 29, 1875			7	1098
164, 284	Farmer, George P., Brooklyn, N. Y. Putting up yarn.	June 8, 1875	421	141	7	998
170, 624	Farmer, Henry R., Ringgold, Va. Tobacco-drier.	Nov. 30, 1875	1292	408	8	937
167, 883	Farmer, James C., Providence, R. I., assignor of one-half interest to John W. White, Dedham, Mass. Exhaust-pipe for locomotives.	Sept. 21, 1875	478	151	8	489
160, 173	Farmer, John, Harrow, and James B. Hamilton, Oxford, England. String for musical instruments.	Feb. 23, 1875	896	295	7	328
170, 540	Farmer, John S., and Edward Tyler, London, England. Electric railway-signal.	Nov. 30, 1875	1207	380	8	926

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
	Farmer, J. P., <i>et al.</i> (See Farmer, David J. and Samuel, assignors.)					
	Farmer, Moses G. (See Channing & Farmer) (Reissue.)					
6, 244	Farmer, Moses G., Salem, Mass. Electro-magnetic fire-alarm apparatus (Reissue.)	Jan. 19, 1875	654	214	7	128
6, 296	Same.....Method of sending and receiving messages simultaneously over the same telegraph wire.....(Reissue.)	Feb. 16, 1875	736	245	7	298
160, 581	Same.....Duplex telegraph apparatus.....	Mar. 9, 1875	301	102	7	401
161, 874	Same.....Magneto-electric machine.....	Apr. 13, 1875	263	103	7	618
	Farmer, Samuel. (See Farmer, David J. and Samuel.)					
161, 106	Farmer, Theodore P., Boston, Mass. Drill-bit.....	Mar. 23, 1875	804	264	7	485
167, 884	Farmer, Theodore P., Boston, assignor to self and Edward M. Farnsworth, Revere, Mass. Countersink.....	Sept. 21, 1875	478	151	8	489
	Farmer, William. (See Smith & Farmer.)					
167, 605	Farmer, William, New York, N. Y. Movable dip-pipe in gas-making apparatus.....	Sept. 14, 1875	214	66	8	443
167, 606	Same.....Rotary valve for dip-pipes.....	Sept. 14, 1875	214	67	8	443
162, 160	Farnan, James, Cleveland, Ohio. Lubricator for steam-engines.....	Apr. 20, 1875	529	174	7	659
	Farnham, Charles H. (See Bean & Farnham.)					
169, 897	Farnham, Frederick A., Owego, N. Y. Foot-rest.....	Nov. 16, 1875	590	183	8	826
	Farnham Type Letter Manufacturing Company. (See Thompson, David B., assignor.)					
159, 084	Farnsworth, Edward M. (See Farmer, Theodore P., assignor.)					
158, 788	Farnsworth, Edwin L., Leavenworth, Kans. Iron bridge.....	Jan. 26, 1875	725	239	7	146
	Farnsworth, Luther H., Hudson, assignor to John S. Folsom, Boston, Mass. Machinery for crimping boots and shoes.....	Jan. 19, 1875	421	141	7	99
158, 789	Farnsworth, Luther H., Hudson, and Thomas Barrett, assignors to John S. Folsom, Boston, Mass. Boot and shoe crimping machine.....	Jan. 19, 1875	422	142	7	99
158, 580	Farquhar, Arthur B., York, Pa. Plow.....	Jan. 12, 1875	216	74	7	54
166, 354	Same.....Grain-separator.....	Aug. 3, 1875	152	47	8	221
168, 469	Same.....Horse-power.....	Oct. 5, 1875	132	45	8	584
162, 365	Farr, Royall D., East Middlebury, Conn. Stove-pipe shelf.....	Apr. 20, 1875	719	234	7	682
	Farr, V. A. (See Rigby, James, assignor.)					
	Farrar, Alonzo. (See Adams, Franklin F., assignor.)					
166, 758	Farrar, Chilion M., Buffalo, N. Y. Rotary balanced valve.....	Aug. 17, 1875	562	172	8	296
169, 533	Farrar, James B., Cary, N. C. Machine for packing tobacco in bags.....	Nov. 2, 1875	187	63, 64	8	760
	Farrar, John M., <i>et al.</i> (See Alger, George A., assignor.)					
161, 399	Farrar, Oscar, Rindge, N. H. Sewing-machine.....	Mar. 30, 1875	1100	356	7	531
161, 675	Farrell, John, New York, N. Y. Door for safes.....	Apr. 6, 1875	75	27	7	580
160, 313	Farrell, John, Pittsburgh, Pa. Water-closet valve.....	Mar. 2, 1875	53	19	7	356
163, 005	Same.....Basin-faucet.....	May 11, 1875	267	87	7	790
8, 794	Farrell, John R., Boston, Mass. Button.....(Design)	Nov. 16, 1875			8	819
160, 263	Farrington, De Witt C., Lowell, Mass. Cartridge.....	Mar. 2, 1875	7	4	7	350
163, 922	Same.....Feed-case for machine-guns.....	June 1, 1875	69	23	7	940
163, 318	Same.....Machine-gun.....	July 6, 1875	161	48, 49	8	30
166, 923	Same.....Cartridge-feeding case for machine-guns.....	Aug. 24, 1875	728	225	8	328
166, 924	Same.....Feed-case for cartridges.....	Aug. 24, 1875	729	226	8	328
160, 661	Farrington, George K., and Bradford S. Potter, Bloomington, Ill.; said Farrington assignor to said Potter. Clothes-pin.....	Mar. 9, 1875	373	126	7	411
167, 087	Farris, William, Yarmouth, Me. Grate-bar.....	Aug. 24, 1875	836	277	8	350
169, 631	Farson, Enoch S., Philadelphia, Pa. Water-filter.....	Nov. 9, 1875	307	99	8	783
8, 305	Farwell, George S., Boston, Mass. Fan.....(Design)	May 4, 1875			7	742
	Farwell, Pulaski. (See Holton, Cassius, assignor.)					
169, 686	Farwell, Willard B., New York, N. Y. Machine-gun.....	Nov. 9, 1875	364	115	8	790
164, 642	Fasoldt, Bernard, Albany, N. Y. Breech-loading fire-arm.....	June 22, 1875	768	252	7	1062
165, 991	Fasoldt, Charles, Albany, N. Y. Tower-clock.....	July 27, 1875	859	264	8	162
166, 197	Fasoldt, E. Max, Albany, N. Y. Faucet.....	Aug. 3, 1875	13	5	8	201
170, 246	Fatzinger, Alexander H., New York, N. Y., assignor to self and James McFarlane, North Bergen, N. J. Carboy.....	Nov. 23, 1875	927	289	8	879
169, 975	Faught, Luther R., Philadelphia, Pa. Car-axle box.....	Nov. 16, 1875	653	204	8	835
	Faulkner, Charles J., jr., <i>et al.</i> (See Fisher & Fiske, assignors.)					
	Faulkner, E. B., <i>et al.</i> (See Fisher & Fiske, assignors.)					
	Faulkner, Edward H. (See Paradis, Joseph, assignor.)					
	Same.....(See Turpie, John, assignor.)					
166, 086	Faulkner, James W., Auburn, Cal. Portable fruit-drier.....	July 27, 1875	946	292	8	175
	Faulkner, John. (See Fisher, Albert, assignor.)					
161, 333	Faulkner, Oscar F. A., Mount Pleasant, Iowa. Bed-bottom.....	Mar. 30, 1875	1033	336	7	522
	Faulkner, William H., <i>et al.</i> (See Hardman, John H., assignor.)					
158, 924	Fauré, Marie J. F. R., and Jacques L. Kessler, Clermont-Ferrand, France. Apparatus for concentrating and evaporating sulphuric acid.....	Jan. 19, 1875	553	184	7	115
162, 637	Fawcett, Edward W., Salem, Ohio. Straw-cutter.....	Apr. 27, 1875	983	316	7	724
162, 366	Fawcett, Thomas C., Saint Clairsville, Ohio. Automatic rain-water cut-off.....	Apr. 20, 1875	720	235	7	683
167, 514	Fawkes, Joseph W., Maroa, Ill. Check-row corn-dropper.....	Sept. 7, 1875	119	37	8	423
164, 985	Faxon, James W., Boston, Mass. Valve for steam-radiators.....	June 29, 1875	1100	355	7	1112
170, 836	Faxon, John L., Quincy, Mass. Ventilator.....	Dec. 7, 1875	162	55	8	972
	Fay & Co., J. A. (See Bugbee, George W., assignor.)					
	Same.....(See Doane & London, assignors.) (Reissue.)					
	Same.....(See Doane & Passel, assignors.)					
	Same.....(See Rees, Edward H., assignor.)					
	Same.....(See Streit, Anton, assignor.)					
161, 497	Fay, Artemas W., Troy, assignor of one-half interest to William R. Benedict, Cohoes, N. Y. Folding extension-table.....	Mar. 30, 1875	1197	384	7	543
	Fay, George W. (See Summers & Fay.)					
161, 770	Fay, John, New Boston, Mich. Sulky-plow.....	Apr. 6, 1875	154	53	7	591
163, 647	Fayette, John B., and Lorenzo Meeker, Oswego, N. Y. Lifting-jack.....	May 25, 1875	893	282	7	895
165, 485	Same.....same.....	July 13, 1875	355	104	8	64
169, 158	Feder, Joseph, Newark, N. J. Process of covering harness-mountings with leather.....	Oct. 26, 1875	824	267	8	704
158, 479	Feder, Sigmund, and Leo Rosenstein, Memphis, Tenn. Curling-iron.....	Jan. 5, 1875	113	38	7	25
162, 464	Fee, Elisha, Colfax, Iowa. Grain-car door.....	Apr. 27, 1875	838	270	7	706
167, 443	Feigl, Michael, New Utrecht, N. Y. Wagon-spring.....	Sept. 7, 1875	58	17	8	414
166, 978	Feigl, Albert, Philadelphia, Pa. Toy money-box.....	Aug. 24, 1875	783	241	8	335
	Feigl, Stubb & Co. (See Comly, James, assignor.)					
160, 662	Feix, John, San Francisco, Cal. Metallurgic furnace.....	Mar. 9, 1875	374	126	7	411
165, 811	Same.....Crucible.....	July 20, 1875	670	205	8	125
167, 885	Felber, Jacob, Saint Louis, Mo. Governor.....	Sept. 21, 1875	479	151	8	489
161, 400	Felbinger, Franz, and Johann G. Koch, Vienna, Austria. Piston for steam-engines, pumps, &c.....	Mar. 30, 1875	1101	356	7	531

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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32, 367	Feldmeier, Henry, and Edward Steeppelwerth, Saint Louis, Mo. Coal-scuttle.....	Apr. 20, 1875	721	235	7	683
170, 360	Fell, Ambrose G., assignor to self, William H. Phelps, and William H. Smith, New York, N. Y. Vegetable parchment.....	Nov. 23, 1875	1024	.....	8	893
167, 607	Fell, Thomas M., Brooklyn, N. Y., assignor to George B. Ripley, trustee. Process for separating the various constituents of fats, &c.....	Sept. 14, 1875	215	67	8	443
168, 009	Fellner, Louis G., Santa Fé, N. Mex. Turbine wind-wheel.....	Sept. 21, 1875	578	186	8	505
165, 221	Fellows, Albert G., Philadelphia, Pa. Mallet.....	July 6, 1875	74	22	8	19
168, 563	Fellows, George E. (See Elliott, Fellows & Simmons.) Fellows, Joseph, and John Finnegan, Philadelphia, Pa. Combined shutter bower and fastener.....	Oct. 11, 1875	247	80, 81	8	607
162, 541	Fellows, T. S. (See Kellett, Thomas A., assignor.) Fellows, William C., assignor to self and Charles Whittingham, Toledo, Ohio. Scaffold-clamp.....	Apr. 27, 1875	906	289	7	714
166, 759	Same..... same.....	Aug. 17, 1875	562	173	8	296
159, 170	Felt, George H., New York, N. Y. Breech-loading ordnance.....	Jan. 26, 1875	799	{ 261 262 }	{ 7 7 }	156
165, 086	Felt, Granville, et al. (See Putnam, Albert M., assignor)..... (Reissue.)	June 29, 1875	1186	382	7	1124
159, 808	Felt, Hannibal, Odin, and Pascal P. Child, Carlyle, Ill. Rotary churn.....	Feb. 16, 1875	553	184	7	273
167, 088	Felt, Vanderlyn H., Kendall, assignor of one-half interest to D. M. Osborne & Co., Auburn, N. Y. Harvester-rake.....	Aug. 24, 1875	888	277	8	350
171, 005	Felter, Philo S., Cazenovia, N. Y. Locking-latch.....	Dec. 28, 1875	933	306	8	1099
161, 020	Felthousen, Barrent W., Milwaukee, Wis. Feed-water apparatus.....	Mar. 23, 1875	722	237	7	474
6, 343	Felthousen, Edward G., Buffalo, N. Y. Fastener for meeting-rails of sashes.....	Mar. 23, 1875	1010	329	7	511
162, 280	Felthousen, Henry C., Buffalo, N. Y. Lens for head-lights..... (Reissue.)	Apr. 20, 1875	638	208	7	673
159, 569	Felthousen, Jacob D., Chicago, Ill. Horseshoe.....	Feb. 9, 1875	320	105	7	336
159, 505	Felton, Asa Y., Plain View, Minn. Fanning-mill.....	Feb. 9, 1875	262	85	7	228
163, 061	Fender, William J., Minneapolis, Minn. Middlings-purifier.....	May 11, 1875	323	104	7	706
158, 411	Fenley, George W., Nacogdoches, Tex. Rotary cultivator and chopper.....	Jan. 5, 1875	53	18, 19	7	16
162, 046	Fenn, Edward P., Kansas City, Mo. Feed-water heater and filter.....	Apr. 13, 1875	408	137	7	637
166, 267	Fenn, Robert, assignor to George H. Mellen, Rochester, N. Y. Ornamental wood flooring-tile.....	Aug. 3, 1875	76	23	8	210
167, 159	Fenner, Ferdinand A., and John H. Power, Mission Valley, Tex. Apparatus for destroying the cutting ant.....	Aug. 31, 1875	980	304	8	370
164, 678	Fenner, Robert R., Urbana, Ill. Sulky-plow.....	June 22, 1875	799	.....	7	1066
165, 554	Fennessy, Edward H., Newton, Mass. Bronze dressing for leather.....	July 13, 1875	416	125	8	74
164, 368	Fensom, John, Toronto, Canada. Self-closing hatchway.....	June 15, 1875	516	169	7	1020
162, 368	Fenton, Charles, New York, N. Y. Pipe tongs and cutter.....	Apr. 20, 1875	721	235	7	683
8, 321	Fergus, David, Philadelphia, Pa. Steam-injector.....	May 11, 1875	.....	.....	7	782
160, 409	Ferguson, Charles M. (See Young & Ferguson.) Ferguson, Charles M., and William F. Gilbert, Derby, Conn. Toy money-box. (Design.)	Mar. 2, 1875	134	47, 48	7	368
160, 410	Ferguson, Edwin L., et al. (See Curtis, William H., assignor)..... (Reissue.)	Mar. 2, 1875	136	48	7	368
158, 790	Ferguson, Henry J., New York, N. Y. Gas-governor.....	Jan. 19, 1875	425	.....	7	99
171, 004	Same..... Carbureter or hydrocarbon diffuser.....	Dec. 14, 1875	334	.....	8	1002
159, 661	Ferguson, James, Bridgewater, Mass. Tin-lining metallic pipes.....	Feb. 9, 1875	396	132	7	247
171, 219	Ferguson, James, assignor to Bridgewater Iron Company, Bridgewater, Mass. Composition for covering metallic surfaces.....	Dec. 21, 1875	565	186	8	1040
164, 285	Ferguson, James F., Essex, Vt. Evaporating-pan.....	June 8, 1875	422	141	7	998
159, 913	Ferguson, James H. (See Perrin, Adelbert W., assignor.) Ferguson, John L. (See Ferguson & Jones, assignors.)	Feb. 16, 1875	649	215	7	286
168, 245	Ferguson, Nelson D., Carthage, N. Y. Milk-cooler.....	Sept. 28, 1875	827	264	8	546
160, 411	Ferguson, Robert, Toronto, Canada. Car-door.....	Mar. 2, 1875	137	48	7	368
167, 444	Ferguson, Samuel T., assignor to the Monitor Plow Works, Minneapolis, Minn. Plow-adjuster.....	Sept. 7, 1875	59	18	8	414
160, 264	Ferguson, William C., and John S. Jones, assignors to John L. Ferguson, Saint Louis, Mo. Ore-stamp.....	Mar. 2, 1875	8	4	7	350
167, 635	Ferguson, William H., Rochester, N. Y. Method of straightening whalebone.....	Apr. 6, 1875	155	54	7	591
163, 173	Ferguson, William K., et al. (See Bridge, Edward W., assignor.)	Apr. 6, 1875	156	54	7	591
167, 830	Fernald, Daniel H., Bangor, Me. Man-hole cover for sewers.....	Sept. 14, 1875	256	80	8	449
166, 268	Fernald, Edward S. M., Saco, Me. Friction-clutch.....	May 11, 1875	424	137	7	810
161, 771	Fernandez, José. (See Clondman, Augustus F., assignor.)	Sept. 21, 1875	429	136	8	482
161, 772	Fernandez, Peter B., San Francisco, Cal. Aerial toy.....	Aug. 3, 1875	76	23	8	210
167, 635	Same..... Aerial and marine gyrotor.....	Aug. 17, 1875	659	{ 204 205 }	{ 8 8 }	310
163, 173	Ferren, Daniel M. (See Emery, Francis W. R., assignor.)	Oct. 26, 1875	825	268	8	704
167, 830	Ferris, Alfred C., Philadelphia, Pa. Ash-sifter.....	Aug. 31, 1875	1117	351	8	390
166, 268	Ferris, Alfred C., and Charles E. School, Philadelphia, Pa. Kaleidorama.....	Mar. 23, 1875	805	264	7	485
166, 866	Ferris, George H., Brooklyn, N. Y. Steam-cooking apparatus.....	Jan. 12, 1875	318	108	7	69
169, 559	Ferris, Henry L., Alden, Ill. Fly-trap.....	Nov. 30, 1875	1209	380	8	926
169, 559	Ferris, Henry L., and Cyrus Lewis, Alden, Ill. Automatic gate.....	Oct. 26, 1875	899	292	8	715
167, 324	Ferris, Sherwood B., Brooklyn, N. Y. Corset.....	Nov. 16, 1875	747	236	8	847
161, 107	Ferroux, Camille, Goeschene, Switzerland. Rock-drilling machine.....	Aug. 3, 1875	77	24	8	210
158, 693	Ferry, George H., New York, N. Y., assignor to Jeremiah B. Bradford, Boston, Mass. Bottle filler and corker.....	Feb. 2, 1875	142	49	7	204
170, 541	Ferry, William M., Grand Haven, Mich. Saw-mill dog.....	Oct. 26, 1875	826	268	8	704
169, 247	Fessenden, John J., Boston, Mass. Plaiter and tucker attachment for sewing-machines.	Nov. 9, 1875	372	116	8	791
170, 074	Fessler, James M. (See Hiner & Fessler.) Fetherston, Thomas, assignor to Arthur A. Speck, county of Carleton, Canada. Inside blinds.....	Aug. 31, 1875	1040	323	8	378
166, 269	Fetta, Henry H., Richmond, Ind., and Sterling D. Tuttle, Eaton, Ohio. Wagon-axle skein.....	Sept. 21, 1875	658	209	8	515
159, 400	Fetterhoff, Albert. (See Reeder & Fetterhoff.) Feust & Rice. (See Voit, Frederick, assignor.)	June 22, 1875	1077	328	7	1094
169, 560	Feust, Sigmund, New York, N. Y. Convertible rocking-chair and swing.....	July 27, 1875	948	292	8	175
169, 687	Fewkes, Joseph T., assignor to Jacob H. Armbruster, Philadelphia, Pa. Differential pulley.....	Aug. 31, 1875	1041	323	8	378
167, 232	Fey, David, and R. Hermann Pein, Peoria, Ill. Game-counter.....	Mar. 9, 1875	304	103	7	401
6, 648	Fick, Henry, New York, N. Y. Globe attachment to clocks.....	.....	.....	.....	.....	.....
6, 502	Field, Austin W., assignor of one-half interest to Frederick W. Coe, Vergennes, Vt. Carriage-jack.....	.....	.....	.....	.....	.....
166, 087	Field, Ben., Albion, N. Y., and George M. Pullman, Chicago, Ill., assignors, by mesne assignments, to George M. Pullman. Sleeping-car..... (Reissue.)	.....	.....	.....	.....	.....
167, 233	Field, Benjamin F., Beloit, Wis. Manufacture of paper-boards.....	.....	.....	.....	.....	.....
160, 582	Field, Benjamin F., Fond du Lac, Wis. Manufacture of lined straw-boards.....	.....	.....	.....	.....	.....
	Field, Benjamin F., Lima, Ohio. Machine for making pasteboard.....					
	Field, Benton J., Leaksville, N. C. Plate for artificial teeth.....					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
8, 338	Field, Franklin A. Everett, assignor to New England Casket Company, Boston, Mass. Burial-casket..... (Design)	May 25, 1875	.....	.....	7	879
161, 676	Field, Frederick H., Providence, R. I. Fire-alarm regulator..... (Reissue.)	Apr. 6, 1875	76	27	7	580
166, 760	Field, George F., et al. (See Gue, Albert F., assignor)..... (Reissue.)	Aug. 17, 1875	563	173	8	296
160, 818	Field, Granville H., Auburn, Me. Construction of walls.....	Mar. 16, 1875	542	176	7	440
168, 890	Field, James D., Blue Rapids, Kans. Bucket-car.....	Oct. 19, 1875	550	180	8	659
160, 663	Field, Joseph F. (See Waas, Maurice A., assignor.)	Mar. 9, 1875	375	126	7	411
171, 006	Field, Joseph S., Brooklyn, N. Y. Dredging-box.....	Dec. 14, 1875	335	111	8	1002
167, 886	Field, Josiah W., Rockford, Ill. Ironing-table.....	Sept. 21, 1875	481	152	8	490
161, 108	Field, Mary E. C. (See Field, Thomas B., assignor.)	Mar. 23, 1875	807	265	7	485
169, 093	Field, Thomas B., Corning, N. Y. Smoke-stack heater-pipe.....	Oct. 26, 1875	766	249	8	695
170, 247	Field, Thomas B., assignor to Mary E. C. Field, Corning, N. Y. Smoke-stack heating apparatus.....	Nov. 23, 1875	928	289	8	879
160, 314	Field, William H., Taunton, Mass. Nail-plate feeder.....	Mar. 2, 1875	54	19	7	356
171, 005	Field, William H., Taunton, Mass. Nail-plate feeder.....	Dec. 14, 1875	335	111	8	1002
161, 401	Fieldhouse, Joseph, assignor of one-half interest to George N. Dutcher, Chicago, Ill. Pipe-welding furnace.....	Mar. 30, 1875	1102	357	7	531
169, 976	Fielemeyer, Joseph. (See Wiegand, Emil H., assignor.)	Nov. 16, 1875	654	204	8	835
163, 412	Fifield, John B. M., Philadelphia, Pa. Sofa-bedstead.....	July 13, 1875	281	83	8	54
160, 174	Fifield, John W., North Brookfield, Mass. Skiing and welt-splitting machine.....	Feb. 23, 1875	897	295	7	328
163, 758	Filbert, Lewis S., Philadelphia, Pa., and Lindley M. Hoffman, Washington, D. C. Pavement.....	May 25, 1875	983	312	7	906
168, 470	Finch, Lewis, Brooklyn, N. Y. Circuit-closer for electrical burglar-alarms.....	Oct. 5, 1875	133	45	8	584
161, 940	Finch, Smith H., New York, N. Y. Apparatus for operating and locking switch-signals.....	Apr. 13, 1875	321	108	7	625
170, 837	Finch, William S. (See Briggs, Johnson, assignor.)	Dec. 7, 1875	163	55	8	972
158, 925	Fingland, William, et al. (See Fitt, Frederic, assignor.)	Jan. 19, 1875	554	184	7	115
165, 319	Fink, John B., Saegerville, Pa., assignor to William S. Godshall. Wheel for vehicles.....	July 6, 1875	162	49	8	31
171, 113	Finley, James R., Delphi, assignor to self, M. Simpson, and J. H. Cable, La Fayette, Ind. Railway-wrench.....	Dec. 14, 1875	430	143	8	1015
158, 364	Finley, James R., assignor of one-half interest to James M. Watts, Delphi, Ind. Whistle-tree.....	Jan. 5, 1875	14	5	7	10
158, 365	Finley, John E., Memphis, Tenn. Churn-dasher.....	Jan. 5, 1875	14	5	7	10
161, 109	Finnegan, John. (See Fellows & Finnegan.)	Mar. 23, 1875	808	265	7	485
8, 496	Finnell, Benjamin P., New York, N. Y. Gong for street-cars, &c..... (Design)	July 27, 1875	.....	.....	8	148
8, 830	Finney, Edward, Philadelphia, Pa. Glass vessel..... (Design)	Dec. 7, 1875	.....	.....	8	945
160, 891	Finney, Hiram S., Detroit, Mich. Street-sign.....	Mar. 16, 1875	600	195	7	448
170, 248	Finney, William S., Harrisburgh, Pa. Steam-engine frame.....	Nov. 23, 1875	929	289	8	879
168, 976	Firby, Edwin A., jr., Norwalk, Ohio. Reciprocating churn.....	Oct. 19, 1875	632	209	8	670
6, 533	Firm, Joseph L., New York, N. Y. Device for protecting the ends of rolls of paper. (Reissue)	July 6, 1875	256	76	8	43
6, 760	Firm, Joseph L., New York, N. Y., assignor of one-half interest to Calvert B. Cottrell and Nathan Babcock. Printing-press..... (Reissue)	Nov. 23, 1875	1097	345	8	903
160, 175	Firm, Joseph L., New York, N. Y. Device for protecting the ends of rolls of paper, &c.....	Feb. 23, 1875	897	296	7	328
168, 977	Firm, Joseph L., New York, N. Y., assignor of one-half interest to Calvert B. Cottrell and Nathan Babcock, Westery, R. I. Stereotype-block.....	Oct. 19, 1875	633	209	8	670
168, 978	Same..... Machine for damping paper.....	Oct. 19, 1875	634	210	8	670
169, 795	Same..... Rotary perfecting-press.....	Nov. 9, 1875	481	151	8	805
169, 796	Same..... same.....	Nov. 9, 1875	482	152	8	805
170, 542	Same..... same.....	Nov. 30, 1875	1211	381	8	927
160, 412	Same..... same.....	Mar. 2, 1875	138	49	7	368
165, 222	Firman, Henry S., Jersey City, N. J. Combined Turkish and vapor bath.....	Mar. 2, 1875	138	49	7	368
169, 977	Firmenich, Frank, et al. (See Firmenich & Stiker, assignors.)	July 6, 1875	75	22	8	19
166, 355	Firmenich, Frank. (See Firmenich, Joseph and George, assignors.)	Nov. 16, 1875	655	205	8	835
169, 978	Firmenich, George, et al. (See Firmenich & Stiker, assignors.)	Aug. 3, 1875	154	47	8	221
170, 723	Firmenich, George. (See Firmenich, Joseph and George.)	Nov. 16, 1875	657	205	8	835
158, 366	Firmenich, Joseph and George, Buffalo, N. Y., assignors of one-third interest to Frank Firmenich, Buffalo, N. Y. Steam-generator.....	Dec. 7, 1875	63	19	8	959
158, 694	Firmenich, Joseph, and Flavius P. Stiker, assignors to Joseph, George, and Frank Firmenich, Buffalo, N. Y. Sectional boiler.....	Jan. 5, 1875	15	5	7	11
169, 978	Fischbeck, Frederick, Chicago, Ill. Sofa-bedstead.....	Jan. 12, 1875	319	108	7	69
170, 723	Fischer, Bernard, Columbus, Ohio. Sash-fastener.....	Dec. 21, 1875	566	186	8	1041
158, 366	Fischer, Francis J., Hamilton, Ohio. Die for making hoes.....	Oct. 26, 1875	900	292 } 293 }	8	715
169, 248	Fischer, William G., Brooklyn, assignor to A. Weidmann & Co., New York, N. Y. Toy windmill.....	June 22, 1875	938	303	7	1084
164, 825	Fish, A. H. (See Byer, John R., assignor.)	Sept. 7, 1875	120	37	8	423
167, 515	Fish, Charles B., Leominster, Mass. Machine for polishing horn.....	Aug. 24, 1875	957	298	8	359
6, 612	Fish, George W. (See Wilson, Thomas, assignor.)	June 1, 1875	22	7	7	933
163, 859	Fish, Joseph, New York, N. Y. Swivel shuttle-loom.....	June 1, 1875	23	7	7	933
163, 860	Fish, Leander E., Washington, D. C. Apparatus for carbureting and purifying gas and air.....	Oct. 19, 1875	550	180	8	659
167, 515	Fish, Warren L., Newark, N. J. Sewing-machine.....	Sept. 7, 1875	121	37	8	423
163, 859	Fishbaugh, Charles, Tiffin, Ohio. Chain-pump..... (Reissue)	Nov. 2, 1875	99	31	8	748
163, 860	Same..... same.....	Feb. 23, 1875	827	272	7	318
168, 891	Fishburne, Ephraim G., et al. (See Winton, Albert, assignor.)	Apr. 20, 1875	639	200	7	673
167, 516	Fisher, Albert, assignor to self and John Faulkner, Cleveland, Ohio. Flue-scraper.....	Oct. 11, 1875	315	102	8	616
169, 428	Fisher, Bedford, and William Wickkiser, El Paso, Ill. Feed-cooker.....	Feb. 9, 1875	302	98	7	233
160, 090	Fisher, Carolina. (See Fisher, John L., assignor.)					
162, 281	Fisher, Charles N., assignor of one-half interest to Joseph Frampton, Willis, Tex. Brick-machine.....					
168, 631	Fisher, Daniel A., assignor to self and O. Chambers, Allegheny, Pa. Miter-machine.....					
159, 542	Fisher, David A., jr., Washington, D. C. Joiner's clamp.....					
	Fisher, George T., Cincinnati, Ohio. Circus-seat.....					
	Fisher, George W., Baltimore, Md. Soldering-machine.....					

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	Fisher, Henry J., <i>et al.</i> (See Dewitt, James, assignor.)					
	Fisher, Henry N., <i>et al.</i> (See Ballou, George F., assignor.)					
163, 759	Fisher, James W. R., and William H. Fiske, Martinsburgh, W. Va., assignors of one-third interest to Charles J., jr., and E. B. Faulkner. Hydrant	May 25, 1875	984	312	7	906
	Fisher, Jeremiah R. (See Reichard & Fisher.)					
8, 560	Fisher, John, assignor to E. S. Higgins & Co., New York, N. Y. Carpet..... (Design)	Aug. 10, 1875			8	211
167, 325	Fisher, John L., assignor to Carolina Fisher, Buffalo, N. Y. Bird-cage	Aug. 31, 1875	1119	351	8	390
	Fisher, Joseph G., <i>et al.</i> (See Hunter, William R., assignor.)					
161, 941	Fisher, Myers C., Philadelphia, Pa. Gas-regulator	Apr. 13, 1875	322	108	7	625
169, 979	Fisher, Robertson J., and John Lichtenberger, Fort Wayne, Ind. Curtain-roller	Nov. 16, 1875	657	206	8	835
153, 309	Fisher, Samuel N., Milford, Mass. Scaffold-bracket	Feb. 2, 1875	57	21	7	192
164, 986	Fisher, Simeon L., assignor of two-thirds interest to Webster Huey and William W. Cowles, Brimfield, Ill. Gateway	June 29, 1875	1101	355	7	1112
169, 534	Fisher, William F., and Amos C. Brown, Houston, Tex. Fluting-iron	Nov. 2, 1875	188	64, 65	8	761
165, 087	Fisk, Asa J., assignor of one-half interest to Henry H. Rugg, Akron, Ohio. Spring-setting machine	June 29, 1875	1187	382	7	1124
	Fisk, Clark & Flagg. (See Fisk, Henry G., assignor.)					
	Same..... (See Fisk, Stephen W., assignor.)					
161, 110	Fisk, Henry G., assignor to Fisk, Clark & Flagg, New York, N. Y. Shirt	Mar. 23, 1875	809	265	7	485
161, 111	Fisk, Stephen W., assignor to Fisk, Clark & Flagg, New York, N. Y. Cast-off for suspenders	Mar. 23, 1875	810	265	7	485
161, 942	Fisk, William M., Lancaster, Pa. Fastening for tool-handles	Apr. 13, 1875	322	108	7	625
8, 058	Fiske, Joseph W., New York, N. Y. Aquarium..... (Case A. Design)	Feb. 16, 1875			7	261
8, 059	Same..... same..... (Case B. Design)	Feb. 16, 1875			7	261
8, 060	Same..... same..... (Case C. Design)	Feb. 16, 1875			7	261
8, 061	Same..... same..... (Case D. Design)	Feb. 16, 1875			7	261
8, 186	Same..... Fountain..... (Design)	Mar. 2, 1875			7	345
8, 206	Same..... Aquarium..... (Design)	Mar. 16, 1875			7	427
8, 213	Same..... Cast..... (Design)	Mar. 23, 1875			7	466
8, 214	Same..... same..... (Design)	Mar. 23, 1875			7	466
8, 368	Same..... Vase..... (Design)	June 1, 1875			7	926
8, 488	Same..... Drinking-fountain..... (Design)	July 20, 1875			8	95
8, 575	Same..... Handle for vases..... (Design)	Aug. 24, 1875			8	322
8, 801	Same..... Lawn-settee..... (Design)	Nov. 23, 1875			8	862
	Fiske, William H. (See Fisher & Fiske)					
6, 404	Fitch, George, and Peter Shafer, assignors, by mesne assignments, to George Fitch and John D. Hieber, Etna, and Frederick G. Segebruck, Millvale, Pa. Machine for forging metallic sockets	Apr. 27, 1875	1103	348	7	738
	Fitch, John. (See Hamilton, Silas H., assignor.)					
160, 842	Fitch, Raymond, Cleveland, Ohio. Swinging gate	Mar. 16, 1875	560	181	7	443
159, 252	Fitrer, Peter L., Reading, Pa. Nut-machine	Feb. 2, 1875	10	3	7	186
167, 089	Fitt, Frederic, assignor of one-half interest to William Fingland and Benjamin J. Draper, Ottawa, Canada. Independent escapement for watches	Aug. 24, 1875	890	{ 277 } { 278 }	8	350
	Fitts, Benaiah. (See Ball & Fitts.)					
170, 945	Fitzhous, Jacob R., Centre Hall, Pa. Adjustable lock and dog for hay-elevators	Dec. 14, 1875	275	92	8	995
158, 581	Fitz, Ellen E., St. John, New Brunswick. Globe	Jan. 12, 1875	217	74	7	55
	Fitzgerald, Edward M. (See Buckley, Ezra, assignor.)					
169, 429	Fitzgerald, Walter, assignor of two-thirds interest to W. E. Putnam and H. S. Jenkins, Boston, Mass. Boot and shoe nailing machine	Nov. 2, 1875	99	31	8	748
170, 838	Fitz Gerald, Walter H., Brooklyn, N. Y. Washer for car-axles	Dec. 7, 1875	163	55	8	972
163, 470	Fitz Gerald, William J., New Haven, Conn. Shoe-knife	May 18, 1875	709	227	7	864
165, 320	Fitzgibbons, Patrick, Oswego, N. Y. Tube-expander	July 6, 1875	163	49	8	31
171, 114	Fitzhous, Jacob R., Indiana, Pa. Hay-elevator dog	Dec. 14, 1875	431	143	8	1015
160, 664	Fitzhugh, Henry M., Bay City, Mich. Barrel	Mar. 9, 1875	367	127	7	412
160, 665	Same..... same.....	Mar. 9, 1875	376	127	7	412
	Fitzpatrick, John B., <i>et al.</i> (See Fuller, George W., assignor.)					
161, 773	Fitz Patrick, John J., Philadelphia, Pa. Drawers	Apr. 6, 1875	157	54	7	591
170, 440	Fitzpatrick, Luke, Wheeling, W. Va. Screen	Nov. 30, 1875	1116	351	8	914
165, 440	Fitzpatrick, Michael, assignor to William Cassidy, Saint Louis, Mo. Fire-place	July 13, 1875	311	91	8	58
159, 171	Fitz Patrick, William H., Boston, assignor of one-half interest to Albert W. Daniels, Alston, Mass. Wick inserter for lamps	Jan. 26, 1875	801	262	7	156
167, 517	Flack, John J., Joliet, Ill. Propelling-machine	Sept. 7, 1875	122	37	8	423
162, 369	Flad, Henry, Saint Louis, Mo. Railway-signal	Apr. 20, 1875	722	{ 235 } { 236 } { 237 }	7	683
166, 925	Flagg, Eli W., assignor to self and George D. Edmonds, Battle Creek, Mich. Tube-expander	Aug. 24, 1875	729	226	8	328
169, 980	Flagg, George C., Columbus, Ill. Check-row attachment for corn-planters	Nov. 16, 1875	658	206	8	835
	Flagg, Lysander. (See Bucklin & Stearns, assignors.)					
	Flagg, Lysander, <i>et al.</i> (See Vanstone, Samuel, assignor.)					
162, 047	Flagg, Stanley G., Philadelphia, Pa. Converting cast-iron articles into steel	Apr. 13, 1875	408		7	637
163, 733	Flagler, Harvey K., and Walter E. Dodge, assignors to National Tube Works Company, Boston, Mass. Pipe-coupling	Oct. 11, 1875	402	131	8	629
170, 473	Flagler, Harvey K., Boston, and Charles F. Brown, Reading, assignors to National Tube Works Company, Boston, Mass. Art of coupling sections of pipe or tubing	Nov. 30, 1875	1147	362	8	918
166, 761	Flamm, Anthony L., Paris, France. Cryptography	Aug. 17, 1875	563	173	8	296
171, 606	Flanagan, James I., Philadelphia, Pa. Cork-stopper	Dec. 28, 1875	934	306	8	1099
	Flanagan, William J. (See Warrington, Joseph H., assignor.)					
	Flanders, Timothy B. (See Buttrick & Flanders.)					
168, 471	Flannery, James J., Pittsburgh, Pa. Corpse-lifter	Oct. 5, 1875	134	45	8	584
162, 638	Fleisch, Jacob H., New York, N. Y. Neck-tie	Apr. 27, 1875	984	316	7	724
169, 349	Fleischmann, Julius W., Williamsburgh, N. Y. Pipe-stem	Nov. 2, 1875	25	8	8	738
163, 984	Fleishman, Samuel S., Philadelphia, Pa. Shirt-bosom	June 1, 1875	120	40	7	947
	Fleming, Henry L. (See Brettell, Edward W., assignor.)					
170, 249	Fleming, Jacob S., Steubenville, Ohio. Mining-drill	Nov. 23, 1875	930	290	8	879
167, 656	Fleming, James, Chicago, Ill. Hydrant	Sept. 14, 1875	257	80	8	449
168, 630	Fleming, James, Buffalo, N. Y. Hatchway-brace	Oct. 11, 1875	314	102	8	616
163, 587	Fletcher, Alfred P., Middletown, Conn. Shingling-bracket	May 25, 1875	839	265	7	887
	Fletcher, James H. (See Bradley, Baldwin L., assignor.)					
169, 688	Fletcher, James H., Wayne Township, assignor of one-half interest to Marquis L. Bass, Crawfordsville, Ind. Horse hay-fork	Nov. 9, 1875	372	116	8	791
	Fletcher, Sherman. (See Atherton, Galen P., assignor.)					
159, 543	Fletcher, William, Boston, Mass. Brake for vehicles	Feb. 9, 1875	304	98	7	233
165, 812	Fletcher, William H., Washington, D. C. Combined blind and screen for railway-cars	July 20, 1875	671	205	8	125
165, 922	Fleury, Frank, Springfield, Ill. Weather-strip	July 27, 1875	789	243	8	154

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158, 695	Flidner, George, Portland, Oreg. Bird-cage attachment.....	Jan. 12, 1875	320	109	7	69.
158, 836	Flinn, Edward, and Robert G. Wier, Mobile, Ala. Bale-tie.....	Jan. 19, 1875	468	157	7	104
169, 689	Flinn, John, Philadelphia, Pa. Folding-bedstead.....	Nov. 9, 1875	373	117	8	791
171, 369	Same..... Furniture-spring.....	Dec. 21, 1875	697	229	8	1058
171, 556	Flint, Edwin R. (See Church, Titus S., assignor.) Floekher, Charles W., Washington, D. C. Rotary steam-engine..... Florence Sewing Machine Company. (See Edwards, Oliver, assignor.) Florich, William. (See Wendel & Florich.) Flournoy, Rice S. (See Starr, Henry D., assignor)..... (Reissue.)	Dec. 28, 1875	887	290	8	1093
167, 887	Flow, James, Pilot Point, Tex. Wheel-plow.....	Sept. 21, 1875	481	152	8	490
162, 370	Flower, James, Detroit, Mich. Street-hydrant.....	Apr. 20, 1875	726	237	7	683
159, 461	Floyd, George, Cincinnati, Ohio. Fire-alarm signal-box.....	Feb. 2, 1875	143	49	7	204
159, 914	Flummerfelt, Daniel A., Delaware Station, N. J., assignor to Philip Lyons. Washing-machine.....	Feb. 16, 1875	650	215	7	286
170, 162	Flürscheim, Michael. (See Baumeister, Leopold, assignor.) Flye, Luther W., and Charles H. Watson, Boston, Mass., assignors of one-third interest to Edward Webb, New Castle, Me. Barrel.....	Nov. 23, 1875	852	266	8	869
162, 371	Flynn, Frederick W., Germantown, assignor to self and William H. Lockwood, Colliersville, Tenn. Cotton-gin feeder.....	Apr. 20, 1875	727	237	7	683
166, 088	Flynn, James, Boston, Mass. Device for bending metal timber-hangers.....	July 27, 1875	949	293	8	175
166, 979	Flynn, John, Moriches, Wis. Cultivator-tooth.....	Aug. 24, 1875	783	241	8	335
163, 760	Flynt, Chester D., Brooklyn, N. Y. Bottom for chairs, &c.....	May 25, 1875	985	312	7	907
166, 600	Same..... Car-axle lubricator.....	Aug. 10, 1875	399	123	8	264
162, 542	Flynt, James H., Du Luth, Minn. Construction of watch-movements.....	Apr. 27, 1875	906	290	7	714
165, 813	Foerster, David, Cincinnati, Ohio. Device for glazing crackers.....	July 20, 1875	672	206	8	125
160, 760	Fogarty, James, Newark, N. J. Steam-plow.....	Mar. 16, 1875	487	158 159	7	433
171, 607	Fogarty, Thomas B., New York, N. Y. Gas-machine.....	Dec. 28, 1875	935	306 307	8	1099
159, 310	Fogelberg, Carl, Cambridgeport, Mass. Car-brake.....	Feb. 2, 1875	57	22	7	193
159, 311	Same..... Bag or box fastening.....	Feb. 2, 1875	59	22	7	193
162, 909	Fogelberg, Carl, Cambridgeport, assignor to self and Oscar A. Johnson, Boston, Mass. Meat-cutter.....	May 4, 1875	158	51	7	768
8, 194	Fogelstrand, Otto F., assignor to Hart, Bliven & Mead Manufacturing Company, Kensington, Conn. Drawer-pull..... (Case O. Design).....	Mar. 9, 1875	.....	.....	7	387
8, 195	Same..... Match-safe..... (Case A. Design).....	Mar. 9, 1875	.....	.....	7	387
8, 196	Same..... same..... (Case B. Design).....	Mar. 9, 1875	.....	.....	7	387
8, 204	Same..... Inkstand..... (Design).....	Mar. 9, 1875	.....	.....	7	387
8, 205	Same..... Paper-weight..... (Case M. Design).....	Mar. 9, 1875	.....	.....	7	387
161, 112	Fogerty, Valentine, Boston, Mass. Finger-nail trimmer.....	Mar. 23, 1875	810	266	7	485
171, 115	Fogh, Hans J., Jedsted Mølle, Denmark, assignor to William E. Carlin and Lauritz T. C. Fogh, Creston, Wyo. Millstone.....	Dec. 14, 1875	432	144	8	1015
6, 739	Fogh, Lauritz T. C., et al. (See Fogh, Hans J., assignor.) Foley, James. (See Ade & Foley.) Foley, James, Brooklyn, N. Y., assignor of one-half interest to George C. Gunning. Waste valve and overflow..... (Reissue).....	Nov. 16, 1875	817	257	8	856
168, 472	Foley, John F., New York, N. Y. Vault-light.....	Oct. 5, 1875	134	45	8	584
158, 480	Folk, Deborah C. (See McCloskey, John, assignor.) Folk, Jesse E. (See Miller, Sam. H., assignor.) Follansbee, George, et al. (See Heunsch & Beyer, assignors.) Follensbee, George S., Lewiston, Me. Rotary pump.....	Jan. 5, 1875	114	30	7	25
163, 174	Foller, John. (See Clark, Richardson & Foller.) Foller, John, Washington, D. C. Weighing-scales.....	May 11, 1875	425	138	7	810
162, 372	Follett, Joseph L., New York, N. Y. Sewing-machine.....	Apr. 20, 1875	727	237 238	7	683
171, 116	Folliard, Michael, Brooklyn, and William T. Travis, Flat Bush, N. Y. Street-connection for hydrants.....	Dec. 14, 1875	432	144	8	1015
6, 366	Folsom, John S. (See Farnsworth & Barrett, assignors.) Same..... (See Farnsworth, Luther H., assignor.) Foltz, Benjamin, Rockford, Ill. Neck-yoke attachment..... (Reissue).....	Apr. 6, 1875	234	78	7	602
167, 090	Fontayne, Charles, New York, N. Y. Magic lantern.....	Aug. 24, 1875	891	278	8	350
169, 350	Foot, Edward, North Somerville, Mass. Head for barrels and kegs.....	Nov. 2, 1875	26	8	8	738
161, 021	Foot, Edward H., and Edward L. Gilman, Somerville, Mass. Signal-lantern.....	Mar. 23, 1875	722	238	7	474
171, 473	Foot, Isaac N., Middletown, Ohio. Truss-pad.....	Dec. 28, 1875	808	266	8	1082
159, 402	Foot, Mark S., and Greenbury R. Henry, Burlington, Iowa. Converting iron into steel.....	Feb. 2, 1875	145	.....	7	205
6, 434	Foot, Theodore C. (See Curtiss, Edward P., assignor.) Foot, Theodore M., and Charles A. Randall, Brooklyn, assignors, by mesne assignments, to Gold and Stock Telegraph Company, New York, N. Y. Telegraphic printing apparatus..... (Reissue).....	May 18, 1875	806	255	7	875
164, 912	Forbes, Cochran, et al. (See Baxter, De Witt C., assignor.) Forbes, Henry D., Cambridge, Mass. Combined stopper and paddle for blacking-bottles.....	June 29, 1875	1038	335	7	1104
160, 413	Forbes, John T., Charleston, S. C. Washing-machine.....	Mar. 2, 1875	139	49	7	368
162, 161	Forbes, William H., and Nicholas Hallock, Boston, Mass. Bronzing-machine.....	Apr. 20, 1875	530	174	7	659
164, 286	Forbis, Harbert H., assignor of one-half interest to A. H. Peacock, Danville, Ky. Thill-coupling.....	June 8, 1875	422	141	7	998
6, 271	Forbriger, Arthur, Cincinnati, Ohio. Drawing-book..... (Reissue).....	Feb. 2, 1875	244	79	7	218
164, 643	Force, Christian. (See Miller, Rogers & Force.) Force, Cyrus G., jr., Cleveland, Ohio. Excavating apparatus.....	June 22, 1875	770	253	7	1062
166, 695	Same..... Canal-lock.....	Aug. 17, 1875	502	154	8	287
168, 386	Ford, David, Milwaukee, Wis. Vehicle-seat.....	Oct. 5, 1875	59	21	8	573
169, 982	Ford, Francis M., and John F. Hicks, Bristol, Tenn. Feed-regulator.....	Nov. 16, 1875	660	206 207	8	836
158, 926	Ford, Gideon H., Jerseyville, Ill. Carpet-stretcher.....	Jan. 19, 1875	555	184	7	115
160, 981	Ford, James. (See Leaman, John.) Ford, John B. (See Masterson, Levi J., assignor.) Ford, John W. (See Guard, Chauncey H., assignor)..... (Reissue.) Ford, Oscar E., Meridian, Miss., assignor to self and Minor B. Clinton, Dallas, Tex. Car-coupling.....	Nov. 16, 1875	659	206	8	836
6, 666	Ford, Rufus, et al. (See Robertson, William H., assignor.) Ford, Samuel A., Chicago, Ill. Smoke-burning furnace..... (Reissue).....	Sept. 25, 1875	897	286	8	556
163, 861	Ford, Thomas P., assignor of one-half interest to Thomas S. Dick, Brooklyn, N. Y. Swinging ship's berth.....	June 1, 1875	23	7	7	933
167, 091	Ford, Thomas P., Brooklyn, assignor of one-half interest to Thomas S. Dick, Green Point, N. Y. Swinging berth for ships.....	Aug. 24, 1875	893	278	8	351

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
162, 465	Ford, Walter J., Adrain, Mich., George Westinghouse, jr., and Thomas W. Welsh, Pittsburgh, Pa. Automatic air-escape for railway air-brakes	Apr. 27, 1875	839	270	7	706
170, 163	Ford, William C., Brooklyn, N. Y. Apparatus for superheating air for marine-boiler furnaces	Nov. 23, 1875	853	267	8	869
170, 164	Same..... Supplying heated air to boiler-furnaces	Nov. 23, 1875	854	267	8	869
170, 165	Same..... Apparatus for feeding air to the furnace of steam-boilers	Nov. 23, 1875	855	267	8	869
	Fordyce, Burson, <i>et al.</i> (See Minor, John O., assignor.)					
161, 334	Forehand, Sullivan, and Henry C. Wadsworth, Worcester, Mass. Die for forging spinning-ring blanks	Mar. 30, 1875	1034	{ 336 337 }	{ 7 7 }	522
161, 943	Same..... Blank for spinning-rings	Apr. 13, 1875	323	109	7	626
162, 162	Same..... Revolving fire-arm	Apr. 20, 1875	531	175	7	659
163, 175	Foreman, James G., Corry, Pa. Cutting-pliers	May 11, 1875	425	138	7	810
	Foreman, Simon H., <i>et al.</i> (See Phillippi, Francis A., assignor.)					
170, 724	Forman, Jonathan C., Cleveland, Ohio. Perforating attachment for printing-presses	Dec. 7, 1875	63	19, 20	8	959
	Forist, Merrill C. (See Chandler, Horace J., assignor.)					
160, 761	Formhals, Ferdinand, San Francisco, Cal. Process of obtaining boracic acid from borate of lime	Mar. 16, 1875	489	159	7	433
161, 498	Forquenot, Victor, Paris, France. Slide-valve	Mar. 30, 1875	1198	384	7	543
166, 198	Forrester, Isaac N., Baltimore, Md. Game-board	Aug. 3, 1875	14	5	8	201
169, 797	Same..... Rotary swing	Nov. 9, 1875	484	152	8	805
	Forrester, John. (See Warmington & Forrester.)					
	Forsell, Albin. (See Conradson & Forsell.)					
	Forshee, James M. (See Elliott, William P., assignor.)					
158, 837	Forster, John, New York, N. Y. Coal-box	Jan. 19, 1875	468	157	7	105
168, 087	Forsyth, James B., Boston, Mass. Vulcanizing hose or tubing	Sept. 28, 1875	681	215	8	826
168, 088	Same..... same	Sept. 28, 1875	682		8	526
159, 172	Forsyth, Patrick, Cincinnati, Ohio. Device for changing heads in newspapers	Jan. 26, 1875	801	262	7	156
161, 113	Forsyth, Thomas P., New Haven, Pa. Fire-escape	Mar. 23, 1875	811	266	7	485
168, 149	Fort, John N., Philadelphia, Pa., assignor to Dampsey Wicker Covered Glassware Company. Implement for molding and perforating faucet-holes in glass bottles, &c.	Sept. 28, 1875	745	235	8	535
161, 402	Forwood, Alfred W., Georgetown, Ky. Thill-coupling	Mar. 30, 1875	1103	357	7	531
	Fosket, William. (See Cook & Fosket.)					
	Foskett, William A. (See Brown & Foskett.)					
159, 662	Foss, Charles H., Onarga, Ill. Clevis	Feb. 9, 1875	397	132	7	247
	Foss, James M. (See Lauder, James N., assignor.)					
166, 089	Foss, John F., assignor of one-half interest to John M. Pevey, Lowell, Mass. Carding-machine	July 27, 1875	952	293	8	175
	Foss, John N., <i>et al.</i> (See Rockstroh, Francis E., assignor.)					
	Foss, Lauritz. (See Rosenstjerna, Anders, assignor.)					
166, 199	Foster, Abraham G. W., Newnan, Ga. Meat-tenderer	Aug. 3, 1875	16	5, 6	8	201
	Foster, Alexander W., jr. (See Carroll, Rogers & Foster.)					
158, 696	Foster, David, and William Lockwood, Sheffield, England. Mold for casting ingots	Jan. 12, 1875	320	109	7	69
	Foster, Elon. (See Wadhams, Edward F., assignor.)					
162, 543	Foster, Elon, New York, N. Y. Carbureting gas-machine	Apr. 27, 1875	907	290	7	714
	Foster, Fanny M., executrix. (See Foster, George P.)					
159, 312	Foster, George P., deceased, by Fanny M. Foster, executrix, Leicester, Mass. Sole and heel shave for boots and shoes	Feb. 2, 1875	59	22	7	193
159, 809	Foster, Henry, Westerly, R. I. Carriage-curtain fastening	Feb. 16, 1875	555	184	7	273
	Foster, Jacob R. (See Morgan & Foster.) (Reissue.)					
163, 471	Foster, Jehu, and William A. Weant, Salisbury, N. C. Covering for beds, cribs, &c.	May 18, 1875	710	227	7	864
162, 466	Foster, John C., Lynn, Mass. Hatchway-guard	Apr. 27, 1875	840	270	7	706
166, 692	Same..... same	Aug. 17, 1875	500	153	8	286
164, 287	Foster, John H., and Dennis O'B. Ladd, Chicago, Ill.; said Ladd assignor to said Foster. Machine for nailing boxes	June 8, 1875	423	141	7	999
159, 313	Foster, John T., Jersey City, N. J., assignor to Francis C. Nye, New York, N. Y. Snap-hook	Feb. 2, 1875	60	22, 23	7	193
159, 314	Same..... Machine for forming snap-hooks	Feb. 2, 1875	61	23, 24	7	193
159, 403	Same..... Snap-hook	Feb. 2, 1875	146	49, 50	7	205
167, 326	Foster, Joseph S., Auburn, N. Y. Corn-sheller	Aug. 31, 1875	1120	352	8	390
171, 275	Foster, Joseph S., Salem, Mass., assignor of one-half interest to Chester L. Johnson, Utica, N. Y. Steam-engine	Dec. 21, 1875	617	202	8	1047
167, 831	Foster, Morrison, Allegheny, Pa. Brick for constructing retorts	Sept. 21, 1875	430	137	8	482
	Foster, Samuel E. (See Brimhall, Horace J., jr., assignor.)					
6, 727	Foster, Samuel E., assignor, by mesne assignments, to John S. Perry, Albany, N. Y. Hot-air furnace	Nov. 2, 1875	283	91	8	772
158, 481	Foster, Stephen E., Minneapolis, Minn. Sled	Jan. 5, 1875	115	39	7	25
165, 441	Same..... Vehicle-spring	July 13, 1875	312	92	8	58
168, 246	Same..... Carriage-coupling	Sept. 28, 1875	828	264	8	546
169, 561	Fouch, John H., Sauk Centre, Minn. Lamp-burner	Oct. 26, 1875	827	268	8	704
166, 270	Fouillon, Jules, Grenoble, France, assignor to Ed. Jonniaux & Co., Brussels, Belgium. Glove	Aug. 3, 1875	78	24	8	210
165, 667	Foulis, William, Glasgow, North Britain. Apparatus for charging retorts	July 20, 1875	536	{ 163 164 }	{ 8 8 }	106
161, 677	Fouts, Thomas F., and Eliza Planck, Burlington, Iowa. Steam-brake	Apr. 6, 1875	77	27	7	580
166, 762	Fowden, Samuel, Philadelphia, Pa. Injector	Aug. 17, 1875	565	173	8	296
160, 414	Fowler, Ambrose, West Troy, N. Y. Needle-case	Mar. 2, 1875	140	49	7	369
170, 250	Fowler, Charles S., Brooklyn, N. Y. Cracker-machine	Nov. 23, 1875	931	290	8	879
162, 639	Fowler, Edwin P., Brooklyn, N. Y. Folding spring bed-bottom	Apr. 27, 1875	985	317	7	724
158, 791	Fowler, Frank G., Bridgeport, Conn. Lubricating device for marine propellers	Jan. 19, 1875	426	142	7	99
165, 555	Fowler, Henry, Detroit, Mich. Machine for cutting hoops	July 13, 1875	417	125	8	74
167, 518	Fowler, Herbert E., New Haven, Conn. Whip-socket	Sept. 7, 1875	123	38	8	423
167, 519	Fowler, James S., Davenport, Iowa. Harvester	Sept. 7, 1875	124	38	8	423
163, 370	Fowler, Joseph, New York, N. Y. Spring bed-bottom	May 18, 1875	625	200	7	852
159, 086	Fowler, Joseph, New York, N. Y., and John R. Dewar, Bergen, N. J. Spring bed-bottom	Jan. 26, 1875	726	240	7	146
162, 640	Fowler, William W., Guilford, Conn. Drinking-cup for invalids	Apr. 27, 1875	985	317	7	724
168, 632	Fox, Alpheus, Rock Falls, Ill. Corn-planter	Oct. 11, 1875	315	{ 102 103 }	{ 8 8 }	616
167, 755	Fox, David H., Reading, Pa. Process and apparatus for preventing the accumulation of tar in hydraulic mains	Sept. 14, 1875	347	110	8	462
167, 832	Fox, George H., Boston, Mass. Clasp for machine belting	Sept. 21, 1875	431	137	8	483
	Fox, Henry. (See Freshfield, Abraham, assignor.)					
	Fox, Henry G. (See Boyd & Fox.)					
160, 176	Fox, Jane A., Stamford, N. Y. Dish-drainer	Feb. 23, 1875	898	296	7	328
169, 430	Fox, John, New York, N. Y. Drop-light gas-alier	Nov. 2, 1875	101	31	8	748
	Fox, John B. (See Hauck & Fox.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 570	Fox, John J., Boston, Mass. Drawer for furniture	Feb. 9, 1875	321	105	7	336
164, 987	Fox, Morris, New York, N. Y. Reversible cap	June 29, 1875	1102	355	7	1112
165, 223	Fox, Perley E., Marlow, N. H. Evaporating-pan	July 6, 1875	76	22	8	19
162, 048	Fox, Samuel L., Philadelphia, Pa. Lead-holder for dividers	Apr. 13, 1875	409	137	7	637
167, 445	Fox, Willard H., New Haven, Conn. Machine for making split keys	Sept. 7, 1875	59	18	8	414
6, 448	Foy, Lavinia H., New Haven, Conn. Corset	May 25, 1875	1059	{ 334 335 }	{ 7 7 }	917
	Foye, William H. (See Pierce & Foye.)					
158, 482	Foye, William H., San Francisco, Cal. Rotary plow	Jan. 5, 1875	115	39	7	25
8, 329	Fracker, Francis T., assignor to P. and F. Corbin, New Britain, Conn. Coat and hat hook	May 18, 1875			7	837
8, 562	Same..... Bird-cage and hanging-basket hook	Aug. 10, 1875			8	241
8, 369	Fradley, Joseph F., Brooklyn, N. Y. Fork-handle	June 1, 1875			7	926
8, 370	Same..... Spoon-handle	June 1, 1875			7	926
162, 641	Frailey, John R., Philadelphia, Pa. Combined level, plumb, &c	Apr. 27, 1875	986	317	7	725
164, 288	Fraley, Sylvester W., Wilkesbarre, Pa. Ironing-table	June 8, 1875	425	142	7	999
	Fralick, Francis G., et al. (See Lynahan, Daniel, assignor.)					
	Frampton, Joseph. (See Fisher, Charles N., assignor.)					
164, 826	France, Simon W., Brooklyn, N. Y. Feed-water heater for steam-boilers	June 22, 1875	939	303	7	1084
	Francis, George W. (See Brownlow & Francis.)					
166, 980	Francis, George W., New York, N. Y. Umbrella	Aug. 24, 1875	784	242	8	336
164, 289	Francis, Lewis, New York, N. Y. Machine for perforating paper	June 2, 1875	426	142	7	999
166, 598	Francis, Samuel W., Newport, R. I. Fare-box	Aug. 10, 1875	397	122	8	263
171, 007	Same..... Sewing-machine	Dec. 14, 1875	336	{ 111 112 }	{ 8 8 }	1002
166, 763	Francisco, Levi, Oakland, Wis. Harrow	Aug. 17, 1875	565	174	8	296
	Frank, Henry. (See Krein & Frank.)					
	Frank, Andrew H. (See Spire, George, assignor.)					
165, 720	Frank, Andrew H., and George Spire, Buffalo, N. Y. Molding-machine	July 20, 1875	582	178	8	113
171, 570	Same..... Planing-machine	Dec. 28, 1875	848	277	8	1087
	Frank, Ernest. (See Oberndorf & Frank.)					
158, 697	Frank, Ernest, Baltimore, Md. Rotary engine	Jan. 12, 1875	321	109	7	69
	Frank, Ignatz. (See Cohen & Frank.)					
169, 249	Frank, Samuel B., Marshall, Mo. Steam-engine	Oct. 26, 1875	903	293	8	715
169, 798	Frank, William, Mound Station, Ill. Harrow	Nov. 9, 1875	485	152	8	805
158, 838	Frank, Charles, New York, N. Y. Brick-laying machine	Jan. 19, 1875	469	158	7	105
160, 012	Same..... Horse-blanket and pantaloons combined	Feb. 23, 1875	761	252	7	308
167, 393	Same..... Pantaloons-former	Sept. 7, 1875	13	4	8	408
167, 394	Same..... Apparatus for shaping coats	Sept. 7, 1875	15	4	8	408
167, 395	Same..... Method or process of heating buildings	Sept. 7, 1875	16	4	8	409
167, 396	Same..... Cloth-scouring machine	Sept. 7, 1875	16	5	8	409
167, 397	Same..... Stop-cock	Sept. 7, 1875	17	5	8	409
	Franke, Julius. (See Meyer, Gustavus, assignor.)					
	Same..... (See Meyer, Julius, assignor.)					
159, 085	Frankel, Alexander, assignor to Jacob Lagowitz, Newark, N. J. Trunk-fastener	Jan. 26, 1875	725	240	7	146
167, 520	Frankfoder, David, assignor to self and Joseph A. Culp, Wakarussa, Ind. Fire-kindler	Sept. 7, 1875	125	38	8	424
	Franklin, Ira S. (See Franklin, Oscar B., assignor.)					
162, 812	Franklin, James C., Lena, Oregon. Mail-bag fastening	May 4, 1875	71	23	7	756
170, 543	Franklin, Jonathan H., Avoca, Wis. Vehicle-seat	Nov. 30, 1875	1212	381	8	927
162, 544	Franklin, Oscar B., Guilford, Vt., assignor to self and Ira S. Franklin, Boston, Mass. Thill-coupling	Apr. 27, 1875	908	290	7	714
159, 404	Franklin, William B., assignor to Colt's Patent Fire-Arms Manufacturing Company, Hartford, Conn. Cartridge-feed case for machine-guns	Feb. 2, 1875	148	50	7	205
161, 219	Franklin, William B., and Charles B. Richards, assignors to Colt's Patent Fire-Arms Manufacturing Company, Hartford, Conn. Carriage for field-guns	Mar. 23, 1875	906	{ 296 297 }	{ 7 7 }	498
159, 253	Franz, E. H., Cincinnati, Ohio. Street-sprinkler	Feb. 2, 1875	11	4	7	186
8, 764	Franz, Henry, Pittsburgh, Pa. Glassware	Nov. 2, 1875			8	729
170, 839	Franz, Henry, assignor to Campbell, Jones & Co., Pittsburgh, Pa. Glass-mold	Dec. 7, 1875	164	55	8	972
	Franz, Johan. (See Simmons & Franz.)					
170, 840	Franzini, Michel M., Naples, Italy. Gun-carriage	Dec. 7, 1875	165	56	8	972
	Frary, James D. (See Case, Truman, assignor.)					
8, 817	Frary, James D., assignor to Lauders, Frary & Clark, New Britain, Conn. Table-cutlery	Nov. 30, 1875			8	909
171, 276	Frasch, Herman, assignor to self, Henry Thomas, and Charles B. Sprogel, Philadelphia, Pa. Process for utilizing tin-scrap	Dec. 21, 1875	618		8	1048
158, 367	Fraser, Edwin J., San Francisco, Cal. Suspension-buckle	Jan. 5, 1875	85	5	7	11
158, 368	Same..... Amalgamator	Jan. 5, 1875	16	6	7	11
166, 356	Same..... same	Aug. 3, 1875	155	48	8	221
6, 376	Fraser, E. J., San Francisco, Cal., assignor to Sidney A. Stevens, Philadelphia, Pa. Carbureting apparatus	Apr. 13, 1875	495	163	7	647
	Fraser, Randolph (See Marker, Stephen A., assignor.)					
	Fraser, William. (See Nash, Frank W., assignor.)					
167, 521	Frash, Christian G., New York, N. Y. Preparing corks for stoppers	Sept. 7, 1875	125		8	424
	Frasier, Daniel E., et al. (See Owen, Daniel E., assignor.)					
	Frawley, D., et al. (See Nott, Aaron B., assignor.)					
	Frawley, William J., et al. (See Nott, Aaron B., assignor.)					
	Fray & Pigg. (See Downing, James, assignor.)					
167, 160	Frazee, Lawrence F., Jersey City, N. J., assignor to self and Joseph J. Walton, New York, N. Y. Life-boat	Aug. 31, 1875	981	304	8	370
168, 473	Frazier, Charles E., Baltimore, Md. Night-soil and sewage apparatus	Oct. 5, 1875	135	46	8	584
162, 042	Frearson, John, Birmingham, England. Art of manufacturing wood-screw blanks	Apr. 27, 1875	987	{ 317 318 }	{ 7 7 }	725
170, 667	Frech, William, Cincinnati, Ohio. Counter-shaft	Dec. 7, 1875	13	4	8	952
161, 774	Frechette, Isaac, St. Hyacinthe, Canada. Counter-press	Apr. 6, 1875	157	55	7	592
167, 888	Fredenburgh, John, assignor to self and J. F. Smith, Greene, N. Y. Carriage-spring	Sept. 21, 1875	422	152	8	490
166, 599	Frederick, William C., assignor to William H. Hooper and William A. Willard, Medford, Mass. Hoisting-tongs	Aug. 10, 1875	399	123	8	264
6, 604	Fredericks, Christian A., Brooklyn, N. Y. Speaking-tube	Aug. 24, 1875	944	255	8	358
	Frederickson. (See Vanurder, William, assignor.)					
	Fredricks, Jerome B. (See Woodworth & Fredricks.)					
6, 449	Freeman, Albert A., Philadelphia, Pa. Car-axle box	May 25, 1875	1060	335	7	917
164, 081	Freeman, Albert A., assignor of one-half interest to William M. Singerly, Philadelphia, Pa. Car-brake shoe	June 8, 1875	238	82	7	974
167, 398	Freeman, Barton, East Attleborough, assignor of one-half interest to James McAnerney, Attleborough, Mass. Derrick	Sept. 7, 1875	18	5	8	409

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170, 841	Freeman, Charles A., New Cumberland, W. Va. Flue-lining	Dec. 7, 1875	166	56, 57	8	973
166, 693	Freeman, Elisha, Etna, N. Y. King-bolt for vehicles	Aug. 17, 1875	502	153	8	286
161, 022	Freeman, George W., Indianapolis, Ind. Wrench	Mar. 23, 1875	723	238	7	474
170, 843	Freeman, Hiram, Parker's Landing, Pa., assignor of one-half interest to John Eaton, Brooklyn, N. Y. Strap-hinge attachment	Dec. 7, 1875	168	57	8	973
167, 756	Freeman, Irvin, Corpus Christi, Tex. Plow	Sept. 14, 1875	349	111	8	463
169, 799	Same..... same	Nov. 9, 1875	486	153	8	805
170, 842	Freeman, Josiah G., Worcester, assignor to George S. Harwood and George H. Quincy, Boston, Mass. Feeding-mechanism for carding-machines	Dec. 7, 1875	167	57	8	973
163, 761	Freeman, Moody G., Bloomington, Ill. Iron fence	May 25, 1875	985	312	7	907
165, 224	Freeman, Stephen, and George E. Smith, Racine, Wis. Revolving saucer for flower-pot brackets	July 6, 1875	77	23	8	19
166, 981	Freeman, Thomas R., and Perine Y. Jones, Ripon, Wis. Combined spark-arrester and stove-register	Aug. 24, 1875	785	242	8	336
	Freeman, Valentine & Green. (See Green, Herman D., assignor.)					
	Freeman, William J. (See Spurgin & Freeman.)					
167, 657	Freer, Hiram D., Akron, Ohio. Hot-air furnace	Sept. 14, 1875	258	80	8	449
167, 161	Freese, John D., Chicago, Ill. Anti-friction device for furniture-drawers	Aug. 31, 1875	981	305	8	370
	Freiburg, Henry. (See Meyer & Freiburg.)					
170, 946	French, Alonzo, Philadelphia, Pa. Combined jug and saucer	Dec. 14, 1875	276	92	8	995
171, 608	Same..... Lamp.....	Dec. 28, 1875	939	307	8	1099
	French, Amanda D. (See Eastman, Rufus M., assignor.)					
163, 247	French, Andrew, and John S. Lash, Philadelphia, Pa. Clothes-pounder	Sept. 28, 1875	829	264	8	546
169, 898	French, Anna, Bangor, Me. Floral ornament for tombstones	Nov. 16, 1875	590	183	8	826
167, 162	French, Elizabeth J., Philadelphia, Pa. Electro-therapeutic appliance	Aug. 31, 1875	982	305	8	370
159, 254	French, Evelyn F., New York, N. Y. Hand-rest	Feb. 2, 1875	11	4	7	186
	French, Henry W. (See Mitchell, William, assignor.)					
	French, Hiram A. (See Holtz, Carl, assignor.)					
164, 290	French, Julia B., Boston, Mass. Bedstead	June 8, 1875	427	142	7	999
	French, Orastus S. (See Brayton, June & French.)					
159, 026	French, Raymond, Seymour, Conn. Ox-shoe	Jan. 26, 1875	675	220	7	138
171, 008	Frentress, Henry N., Dunleith, Ill. Wire-fence barb	Dec. 14, 1875	337	112	8	1002
160, 091	Freshfield, Abraham, assignor to self and Henry Fox, New York, N. Y. Curling hat-brims	Feb. 23, 1875	828	272	7	318
160, 762	Freund, Frank W., Denver, Colo. Breech-loading fire-arm	Mar. 16, 1875	469	159	7	433
160, 763	Same..... Metallic cartridge	Mar. 16, 1875	493	160	7	434
160, 819	Same..... Sight for fire-arms	Mar. 16, 1875	542	176	7	440
162, 224	Same..... Breech-loading fire-arm	Apr. 20, 1875	586	192	7	666
162, 373	Same..... Pistol-gripe attachment for the stocks of fire-arms	Apr. 20, 1875	730	238	7	684
162, 374	Same..... Guard-lever and means for operating the breech-block of breech-loading fire-arms	Apr. 20, 1875	732	238	7	684
168, 834	Freund, Frank W., Cheyenne, Wyo. Detachable pistol-gripe for fire-arms	Oct. 19, 1875	502	164	8	652
158, 792	Frey, James H., Cleveland, Ohio, assignor to Allan C. Bakewell & Co., Pittsburgh, Pa. Printer's shooting-stick	Jan. 19, 1875	427	142	7	99
6, 586	Frey, John, Osnaburgh, and John M. Eichholtz, Canton, Ohio, assignors to William Detrick. Sawing-machine	Aug. 10, 1875	473	145	8	274
	(Reissue)					
165, 486	Frick, Joseph K., Evansville, Ind. Constructing, ventilating, and cooling cellars	July 13, 1875	356	104	8	64
	(Reissue)					
	Frickenhaus, Otto. (See William, Steinhaus, assignor)					
163, 062	Friderick, Alexis, O'Fallon, Ill. Harness-knife	May 11, 1875	324	104	7	797
160, 177	Friedlaender, Julius, Berlin, Prussia, and Peter K. Moeller, Leipzig, Saxony. Printing surfaces	Feb. 23, 1875	899		7	328
165, 225	Friend, Edward F., Marianna, Ark. Hub	July 6, 1875	78	23	8	19
167, 757	Friend, George, Philadelphia, Pa. Washing-machine	Sept. 14, 1875	350	111	8	463
163, 063	Friend, John P., Peabody, Mass. Machine for finishing leather	May 11, 1875	325	105	7	797
166, 694	Friest, John P., Chillicothe, Mo. Horse hay-rake	Aug. 17, 1875	502	153	8	287
	Frink, Erastus O. (See Frink, Samuel C., assignor.)					
	Same..... (See Staley, Franklin J., assignor)					
169, 632	Frink, Samuel C., assignor to self and Erastus O. Frink, Indianapolis, Ind. Till-lock alarm	Nov. 9, 1875	309	99	8	783
162, 163	Frisbee, Gideon, Reading, Pa. Expanding-bit for enlarging blast holes	Apr. 20, 1875	532	175	7	659
164, 082	Same..... Process of blasting	June 8, 1875	239	82	7	974
168, 010	Same..... Rock-drill	Sept. 21, 1875	579	186	8	505
164, 538	Frisbee, John L., New York, N. Y., assignor to self and Thomas J. Nottingham, Cincinnati, Ohio. Stop-cock	June 18, 1875	666	216	7	1039
	Frisbee, R. H. (See Goss, Henry, assignor.)					
164, 083	Frisbie, Russell, assignor to J. and E. Stevens Company, Cromwell, Conn. Toy money-box	June 8, 1875	340	82	7	974
	Frischen, Carl L. (See Siemens & Frischen.)					
168, 089	Fristoe, Lydia A., Denver, Colo. Baking-pan	Sept. 28, 1875	683	216	8	526
	Fritz, Elias, sr. (See Hemmich, Thomas F., assignor.)					
165, 814	Fritz, Henry C., Chester, Pa. Pipe-stem	July 20, 1875	673	206	8	125
160, 514	Fritz, Herman, Cleveland, Ohio. Hot-air register	Mar. 9, 1875	246	84	7	392
165, 721	Same..... Ventilating-register	July 20, 1875	583	179	8	113
	Fritz, Louis. (See Conner & Fritz.)					
160, 583	Froehlich, William, New York, N. Y. Manufacture of shoes	Mar. 9, 1875	305	103	7	401
161, 499	Frohe, Gottfried, Buffalo, N. Y. Painting and banner	Mar. 30, 1875	1199	384	7	543
159, 663	Frost, David, assignor of one-half interest to Michael P. Schall, Latrobe, Pa. Band-cutting feeder for thrashing-machines	Feb. 9, 1875	398	133	7	247
165, 413	Frost, Edward J., assignor of one-half interest to Jacob Hoepfner, Philadelphia, Pa. Electric thermostat	July 13, 1875	282	84	8	54
	Frost, Francis N. (See Turnbull & Frost.)					
170, 947	Frost, Frederick D., London, England. Hemp-hackling machine	Dec. 14, 1875	276	93	8	995
161, 851	Frost, George, and George H. Phelps, Boston, Mass. Combined under-waist and skirt-supporter	Apr. 6, 1875	230	77	7	602
169, 899	Same..... Under-waist	Nov. 16, 1875	591	183	8	827
169, 983	Same..... Clasp	Nov. 16, 1875	661	207	8	836
169, 892	Frost, Henry S., assignor to A. N. Woolson, Watertown, Conn. Umbrella-runner	Oct. 19, 1875	551	180	8	659
162, 049	Frost, James O., Towanda, Pa. Extension-table slide	Apr. 13, 1875	409	137	7	637
169, 431	Frost, John E., and Josiah Merrill, Berwick, Me. Sash-holder	Nov. 2, 1875	101	32	8	749
165, 161	Frost, Walter, Newark, N. J. Diaphragm for gas-governors	July 6, 1875	13		8	11
170, 075	Frost, Willis L., Sherman, Tex. Cotton-press	Nov. 16, 1875	748	236	8	847
	Fruin, Jeremiah, et al. (See Burridge, Thomas H., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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8,396	Fry & Co., A. (See Weston, John, assignor.)					
164,160	Fry, Henry L., assignor to James L. Haven & Co., Cincinnati, Ohio. Chain-pump curb..... (Case A. Design).....	June 15, 1875			7	1014
8,397	Same.....same..... (Case B. Design).....	June 15, 1875			7	1014
168,011	Fry, John L., assignor of one-half interest to Jerome Keeley, Philadelphia, Pa. Machine for cutting out garments.....	June 8, 1875	303	104	7	983
159,405	Fry, Michael W., Guyandotte, W. Va. Coffee-roaster.....	Sept. 21, 1875	580	186	8	505
165,722	Fry, Thomas W., Providence, R. I. Setting gems.....	Feb. 2, 1875	149	50	7	205
6,613	Fry, William T., Brooklyn, N. Y. Flask and bottle..... (Reissue).....	July 20, 1875	583	179	8	113
	Fryer, Charles L. (See Bellinger, Bolles & Fryer, assignors.)	Aug. 24, 1875	957	298	8	360
170,625	Fryer Noble Metal Mining Company. (See Fryer, Robert M., assignor.)					
	Fryer, Robert M., assignor to Fryer Noble Metal Mining Company, New York, N. Y. Apparatus for roasting gold and silver ores.....	Nov. 30, 1875	1292	408	8	937
163,006	Fryer, William J., jr. (See Bellinger, Bolles & Fryer.)					
159,571	Fuchs, Charles H., Sandusky, Ohio, assignor to M. F. and J. S. Cowdery. Clamp.....	May 11, 1875	268	87	7	790
	Fuchslocher, Charles A., and Frank A. Schmid, Erie, Pa. Fire-escape.....	Feb. 9, 1875	322	105	7	336
8,180	Fugitt, Nathaniel B. (See Rhodes, Benjamin, assignor)..... (Reissue).....					
161,539	Fuld, Julius, New York, N. Y. Show-card for exhibiting vest-buttons..... (Design).....	Mar. 2, 1875			7	345
167,092	Fuller, Albert, Brooklyn, N. Y. Tank-regulator.....	June 15, 1875	666	216	7	1039
159,255	Same.....Faucet.....	Aug. 24, 1875	894	278	8	351
168,387	Fuller, Albert D., assignor to Dutcher Temple Company, Hopedale, Mass. Loom-temple.....	Feb. 2, 1875	12	4	7	186
162,910	Fuller, Charles M., and Robert M. Parkerson, Batavia, N. Y. Flour-sack packer.....	Oct. 5, 1875	59	21	8	573
170,845	Fuller, Chauncey W. (See Hatch, William W., assignor.)					
	Fuller, Clark S., La Fayette, Ind. Apparatus for drying and bleaching ground wheat.....	May 4, 1875	158	52	7	768
	Fuller, George W., assignor of one-half interest to John B. Fitzpatrick, Boston, Mass.; said Fuller and Fitzpatrick assignors of one-half interest to John M. Perkins, Washington, D. C. Hanging bird-cage.....	Dec. 7, 1875	170	58	8	973
166,764	Fuller, Granville B., Middletown, N. Y. Machine for stiffening hats.....	Aug. 17, 1875	566	174	8	296
165,321	Fuller, Jim B., Brooklyn, N. Y. Argand gas-burner.....	July 6, 1875	164	50	8	31
166,926	Fuller, Jim B., Brooklyn, N. Y., assignor of one-half interest to John N. Crandall, Norwich, Conn. Argand gas-burner.....					
168,893	Fuller, Jim B., Brooklyn, N. Y. Magneto-electric machine.....	Aug. 24, 1875	730	226	8	328
160,315	Fuller, John N., Cleveland, Ohio. Clothes-line supporter.....	Oct. 19, 1875	551	181	8	659
165,088	Fuller, Levi K., Brattleborough, Vt. Drying apparatus.....	Mar. 2, 1875	55	20	7	356
169,535	Same.....Apparatus for devaporizing air.....	June 29, 1875	1188	382	7	1124
170,844	Same.....Devaporizing apparatus.....	Nov. 2, 1875	189	65	8	761
160,052	Fuller, Levi K., assignor to J. Estey & Co., Brattleborough, Vt. Reed-organ.....	Dec. 7, 1875	169	58	8	973
160,316	Same.....Reed-organ tremolo.....	Feb. 23, 1875	794	262	7	313
160,515	Same.....Key-board for organs.....	Mar. 2, 1875	56	20	7	356
162,467	Same.....Blank for organ-keys.....	Mar. 9, 1875	247	85	7	392
162,835	Fuller, Nathaniel, assignor of one-half interest to George W. Bowker, Boston, Mass. Machine for making cigar-lighters.....	Apr. 27, 1875	841	271	7	706
159,541	Fuller, Samuel B., Irving, Mass. Wheel for vehicles.....	Oct. 19, 1875	504	164	8	652
165,162	Fuller, Sylvester B., Lynn, Mass. Jig-saw.....	Feb. 9, 1875	304	98	7	233
	Fuller, Theron D., et al. (See O'Neil, John, assignor.)	July 6, 1875	14	5	8	11
	Fuller, Thomas R. (See Stauffer, John, assignor.)					
	Fuller, Warren & Co. (See Harwood & Smith, assignors)..... (Design.)					
	Same..... (See Harwood, Luther W., assignor)..... (Design.)					
	Same..... (See Vedder & Heister, assignors)..... (Design.)					
	Same..... (See Warren, Walter P., assignor)..... (Design.)					
	Same..... (See Wells & Cridge, assignors)..... (Design.)					
	Same..... (See Wells, George A., assignor)..... (Design.)					
	Same..... (See Wells, Vedder & Heister, assignors)..... (Design.)					
160,415	Fulmer, Charles H., Indianapolis, Ind. Pipe-wrench.....	Mar. 2, 1875	141	50	7	369
158,582	Fulton, Andrew, Albany, N. Y. Gas-burner.....	Jan. 12, 1875	219	74	7	55
164,158	Fulton, John A., Cambridge, Mass. Metallic packing for piston-rods of steam-engines, &c.....					
159,256	Fulton, Louis B., and Julius Proeger, Pittsburgh, Pa. Ejector.....	June 8, 1875	302	103	7	983
159,315	Fulton, Peter M., Rhinebeck, N. Y. Bridge.....	Feb. 2, 1875	12	4	7	186
161,500	Fulton, William H., Foxcroft, Me. Stump-extractor.....	Feb. 2, 1875	73	24	7	193
159,027	Funston, Abram C., Philadelphia, Pa. Picture-rod molding.....	Mar. 30, 1875	1200	385	7	543
169,900	Furber, Oscar E., Saco, Me. Attaching handles to pumps.....	Jan. 26, 1875	676	221	7	138
	Furbush, Charles A., et al. (See Barker, James, assignor.)	Nov. 16, 1875	592	184	8	827
	Furbush, Charles A. (See Furbush, Merrill A., assignor.)					
	Furbush, Merrill A., et al. (See Barker, James, assignor.)					
166,601	Furbush, Merrill A., assignor to self and Charles A. Furbush, Philadelphia, Pa. Condensing mechanism for carding-machines.....	Aug. 10, 1875	400	123	8	264
168,979	Same.....Spinning mule or jack.....	Oct. 19, 1875	635	210	8	671
	Ferguson, Alexander. (See Seeley, Harlbert H., assignor.)					
161,403	Furlong, Edward P., Biddeford, Me. Paper bosom.....	Mar. 30, 1875	1104	357	7	531
163,862	Furlong, Thomas T., Chicago, Ill. Whiffletree.....	June 1, 1875	24	8	7	934
165,226	Furman, Joel N., Patchogue, N. Y. Apparatus for raising sunken vessels.....	July 6, 1875	78	23	8	19
164,440	Furman, Oliver P., Corning, N. Y. Extension curtain-roller.....	June 15, 1875	584	190	7	1029
164,459	Furnas, Robert, Decatur Township, Ind. Broadcast seed-sower.....	June 8, 1875	303	104	7	983
	Furness, Nathaniel H. (See Wales, Sigourney, assignor.)					
160,013	Furness, Nathaniel H., Tarrytown, and Sigourney Wales, New York, N. Y. Safety-pin.....	Feb. 23, 1875	762	252	7	309
	Furniss, Leon. (See Watson, Barron C., assignor.)					
	Furst & Bradley et al. (See Lane, John, jr., assignor)..... (Reissue.)					
160,416	Furst, Frank A., Baltimore, Md. Grain-sampler.....	Mar. 2, 1875	142	50	7	369
167,234	Furst, Heilmann, Williamsburgh, N. Y. Head-muff.....	Aug. 31, 1875	1042	324	8	379
167,889	Fuyat, Toussaint, Woonsocket, R. I. Venitian blind.....	Sept. 21, 1875	483	152	8	490
165,815	Gabbs, William H. L., San Francisco, Cal. Bed-lounge.....	July 20, 1875	673	206	8	125
163,176	Gabert, Joseph H., Athens, Ohio. Hand-car.....	May 11, 1875	426	138	7	510
169,984	Gabler, Ernst, New York, N. Y. Upright piano.....	Nov. 16, 1875	661	207	8	836
169,985	Same.....Piano-forte agraffe.....	Nov. 16, 1875	662	207	8	836
	Gaffney, James P. (See Suyden & Gaffney.)					
163,371	Gafney, Patrick H., Malden, Mass. Ironing-table.....	May 18, 1875	625	200	7	852
169,162	Gage, David H., Dover, N. H. Mowing-machine.....	Oct. 26, 1875	827	268 269	8	704
	Gage, Harriett M. (See Tomlinson, James, assignor.)					
161,944	Gahn, Henrik, deceased, by Wilton C. Donn, Washington, D. C., administrator, and assignor to Charles G. Am Ende, Hoboken, N. J. Composition for preserving food.....	Apr. 13, 1875	324		7	626
169,094	Same.....Antiseptic composition.....	Oct. 26, 1875	767		8	696
162,050	Gahren, Charles, New York, N. Y. Manufacture of corsets.....	Apr. 13, 1875	410	137	7	637

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	Gaiennie, Frank, <i>et al.</i> (See Bell, A. John, assignor)..... (Reissue.)					
	Gaiffe, Ledislas A. (See Clamond & Gaiffe.)					
	Gail, G. W., <i>et al.</i> (See Cussen, William J., assignor)..... (Design.)					
167, 093	Gallae, Eugene G., Jonesport, Me. Anchor-tripper.....	Aug. 24, 1875	895	279	8	351
159, 173	Gaillard, Louis J. P. E., Paris, France. Dental plugger.....	Jan. 26, 1875	802	262	7	156
168, 012	Same..... Dental forceps.....	Sept. 21, 1875	581	187	8	305
168, 474	Gaither, John C., and James T. Hill, Cumberland, Md. Combined belt and lath machine.	Oct. 5, 1875	137	46	8	584
	Galbraith, Walter. (See Smith & Galbraith.)					
161, 023	Gale, Charles C., and George F. David, Indianapolis, Ind. Seal-lock.....	Mar. 23, 1875	724	238	7	475
	Gale, George W. (See Schroeder, Frederick W., assignor.)					
6, 824	Gale, Horatio, Albion, Mich., assignor to Gale Manufacturing Company. Plow-jointer.					
	(Reissue)					
159, 174	Gale, Horatio, Albion, Mich. Plow.....	Dec. 28, 1875	987	319	8	1106
	Gale Manufacturing Company. (See Gale, Horatio, assignor)..... (Reissue.)	Jan. 26, 1875	802	263	7	156
160, 417	Gale, Warren, Chicopee Falls, Mass. Straw-cutter.....	Mar. 2, 1875	143	50	7	369
163, 648	Gall, Joseph, New York, N. Y. Spectacles.....	May 25, 1875	894	283	7	895
167, 327	Same..... Thermometer.....	Aug. 31, 1875	1121	352	8	390
162, 813	Gallan, William, Newark, N. J. Hub for vehicle-wheels.....	May 4, 1875	71	23	7	756
168, 475	Gallaudet, William L., Elizabeth, N. J. Indicator.....	Oct. 5, 1875	137	46	8	585
168, 476	Galloway, George, assignor of one-half interest to Phillip Stellwagen, William Miller, and Michael J. Stark, Buffalo, N. Y. Side bearings for railway-cars.....	Oct. 5, 1875	138	47	8	585
165, 089	Galloway, Joseph D., Philadelphia, Pa. Gas-fitter's lamp.....	June 29, 1875	1189	383	7	1125
162, 911	Galloway, William, Philadelphia, Pa. Manufacture of earthenware and pottery.....	May 4, 1875	159	52	7	768
158, 927	Gally, Merritt, Rochester, N. Y. Automatic telegraphic apparatus.....	Jan. 19, 1875	556	184	7	115
	Same..... Telegraphic apparatus and circuit.....	Jan. 19, 1875	558	185	7	116
159, 664	Same..... Telegraph apparatus.....	Feb. 9, 1875	400	133	7	248
163, 923	Same..... Duplex telegraph.....	June 1, 1875	70	24	7	940
171, 370	Galt, Thomas, and James Blaisdell, Rock Island, Ill. Child's carriage.....	Dec. 21, 1875	697	230	8	1058
164, 644	Galt, Thomas A., and George S. Tracy, Sterling, Ill. Cider-mill.....	June 22, 1875	771	253	7	1062
165, 668	Galvin, Thaddeus, Detroit, Mich. Ornamental jet for fountains.....	July 20, 1875	537	164	8	106
158, 698	Gambrill, Benjamin F., and James L. Sheridan, Baltimore, Md. Clearer for drawing-rolls.	Jan. 12, 1875	322	109	7	69
163, 310	Gamewell, John N., Hackensack, N. J. Fire-alarm-telegraph circuit.....	May 18, 1875	570	182	7	845
165, 923	Gamewell, John N., Hackensack, N. J., Moses G. Crane, Newton, and Edwin Rogers, Boston, Mass. Telegraphic-fire-alarm repeater.....	July 27, 1875	790	243	8	154
162, 375	Ganwell, Samuel T., Wayland, Mich. Axle for vehicles.....	Apr. 20, 1875	734	238	7	684
170, 251	Gandolfo, John F., Dubuque, Iowa. Middlings-purifier.....	Nov. 23, 1875	933	290	8	880
	Gandolfo, Joseph. (See Jarboe, John W., assignor.)					
165, 992	Gandolfo, Joseph, Brooklyn, N. Y. Apparatus for burning and revivifying bone-black, &c.	July 27, 1875	861	265	8	163
167, 235	Same..... Bone-black revivifier.....	Aug. 31, 1875	1043	324	8	379
165, 993	Gandolfo, Joseph, Brooklyn, assignor to self and John W. Jarboe, Green Point, N. Y. Charcoal and bone-black heater and cooler.....	July 27, 1875	862	265	8	163
	Gannon, Thomas. (See Jack, Robert, assignor.)					
165, 816	Gano, Gazzam, Cincinnati, Ohio. Thermometer.....	July 20, 1875	674	206	8	125
167, 758	Gano, Louis H., New York, N. Y. Curtain-fixture.....	Sept. 14, 1875	350	111	8	463
164, 540	Ganon, Solomon B., Columbus, Ohio. Crown-sheet for steam-boilers.....	June 15, 1875	667	216	7	1040
170, 544	Garcia, José, New York, N. Y., assignor, by mesne assignments, of one-half interest to Benoit Wasserman. Baby-walker.....	Nov. 30, 1875	1213	381	8	927
158, 583	Gard, Walter E., Chicago, Ill. Brick truck and stand.....	Jan. 12, 1875	220	75	7	55
158, 584	Same..... Brick-machine.....	Jan. 12, 1875	222	75	7	55
170, 545	Gard, William J., and Neville Staughton, Winona, Minn. Grain-tester.....	Nov. 30, 1875	1214	382	8	927
164, 827	Gardiner, Charles B., Westerly, R. I. Sash-fastener.....	June 22, 1875	939	303	7	1084
163, 762	Gardiner, Charles O., Springfield, Ohio. Thill-coupling.....	May 25, 1875	986	313	7	907
161, 404	Gardiner, Emmet V. R., Johnson, N. Y. Horse hay-fork.....	Mar. 30, 1875	1104	357	7	531
6, 377	Gardiner, Samuel, jr., Washington, D. C. Lighting gas by electricity..... (Reissue.)	Apr. 13, 1875	496	164	7	647
165, 090	Same..... Burner for electrical gas lighting.....	June 29, 1875	1189	383	7	1125
	Gardinier, Edward, <i>et al.</i> (See Jewell, Tryon J. M., assignor.)					
	Gardinier, Edwin, <i>et al.</i> (See Jewell, Tryon J. M., assignor.)					
164, 988	Gardner, Alphons G., New Orleans, La. Piano-stringing device.....	June 29, 1875	1102	356	7	1112
166, 519	Gardner, Alvin, Windsor, Canada. Paper-pulp engine.....	Aug. 10, 1875	330	100	8	253
165, 227	Gardner, Andrew J., Lee, Mass. Flower-bracket.....	July 6, 1875	79	23	8	20
	Gardner, Daniel W. (See Wright & Gardner.)					
161, 114	Gardner, Emmet V. R., Johnson, N. Y. Hay-elevator.....	Mar. 2, 1875	813	266	7	486
161, 678	Gardner, Francis M., Hornellsville, N. Y. Lifting attachment for shovels and forks.....	Apr. 6, 1875	77	27	7	580
	Gardner, John H. (See Schartan & Gardner.)					
	Gardner, Joseph M. L. (See Hall, Joseph, assignor)..... (Design.)					
8, 322	Gardner, Joseph W., Shelburne, Mass. Shank of table-forks..... (Design.)	May 11, 1875			7	783
164, 441	Gardner, J. Wright, Troy, N. Y. Ironing apparatus.....	June 15, 1875	584	190	7	1029
168, 388	Gardner, Maria, New York, N. Y. Hair-crimping pin.....	Oct. 5, 1875	61	22	8	573
168, 734	Gardner, Miles W., Green Island, N. Y. Stove-door knob.....	Oct. 11, 1875	403	131	8	629
	Gardner, Oliver L. (See Gardner, William, assignor.)					
	Gardner, Resolved, <i>et al.</i> (See Weber, Theodore A., assignor.)					
169, 250	Gardner, Richard H., Troy, N. Y. Ironing apparatus.....	Oct. 26, 1875	904	293	8	715
	Gardner, Sankey. (See Gething, Jenkins & Gardner.)					
164, 541	Gardner, Smith, assignor to Ephraim Howe, New York, N. Y. Driver for sheet-piling...	June 15, 1875	668	216	7	1040
	Gardner, Sylvester N. (See Parker, Hiram J., assignor.)					
163, 177	Gardner, Thomas G., Lincoln, Ill. Boiler-feeder and regulator.....	May 11, 1875	426	139	7	810
158, 930	Gardner, Thomas W., Pittsburgh, Pa. Stair-rod securer.....	Jan. 19, 1875	560	185	7	116
160, 764	Gardner, William, assignor of one-half interest to Oliver L. Gardner, New York, N. Y. Tilting chair.....	Mar. 16, 1875	494	160	7	434
158, 929	Gardner, William R., New York, N. Y. Reflector.....	Jan. 19, 1875	559	185	7	116
159, 810	Gardner, William R., and Charles C. Blossom, New York, N. Y. Pin.....	Feb. 15, 1875	555	184	7	273
159, 811	Gardner, Wilson, assignor to self and L. Salladay, Wheelersburgh, Ohio. Drag.....	Feb. 16, 1875	556	185	7	273
169, 432	Gardner, Wilson, and George L. Hays, Piketon, Ohio. Corn-planter.....	Nov. 2, 1875	162	32	8	749
161, 024	Garfield, Joel, Ayer, Mass. Mowing-machine.....	Mar. 23, 1875	725	238	7	475
	Same..... Sewing-machine for stitching sacks, &c.....	Feb. 16, 1875	556	185	7	274
159, 163	Same..... Sewing-machine for sewing bags, &c.....	Oct. 26, 1875	829	269	8	705
159, 317	Garland, Howard P., and Andrew J. Gove, San Francisco, Cal. Sewing-machine for sewing bags, &c.....	Feb. 2, 1875	75	25	7	194
167, 833	Garland, James, Central Falls, R. I. Feed-mechanism for file-cutting machines.....	Sept. 21, 1875	432	137	8	483
171, 277	Same..... File-blank holder for grinding.....	Dec. 21, 1875	618	202	8	1048
170, 166	Garland, James, Pawtucket, R. I. Machine for testing files and steel.....	Nov. 23, 1875	856	268	8	869
170, 725	Same..... Machine for stripping files.....	Dec. 7, 1875	65	20	8	959
163, 007	Garland, William, assignor to Charles A. Shaw, Boston, Mass. Gas-burner.....	May 11, 1875	270	87	7	790

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159, 087	Garner, John G., Pittsburgh, Tex. Seed-planter.....	Jan. 26, 1875	726	240	7	146
165, 222	Garoutte, William B., Springfield, Mo. Corn-planter.....	July 6, 1875	165	50	8	31
169, 095	Garr, Thomas B., Louisville, Ky. Tobacco-hanger.....	Oct. 26, 1875	768	249	8	696
169, 251	Garrard, Jephtha, Cincinnati, Ohio. Grain-binder.....	Oct. 26, 1875	905	293	8	715
169, 252	Same.....	Oct. 26, 1875	905	294	8	715
162, 745	Garrard, John H., Allegheny, Pa. Fire-place.....	May 4, 1875	9	4	7	748
165, 924	Garretson, Jacob C., Marshland Village, N. Y. Wheel for vehicles.....	July 27, 1875	795	244	8	154
169, 097	Garretson, Thomas B., Oskaloosa, Iowa. Sewing-machine caster.....	Oct. 26, 1875	769	250	8	696
169, 986	Garrett, Albert C., Boston, Mass. Wire fabric.....	Nov. 16, 1875	662	208	8	836
161, 405	Garrett, Charles C., assignor to self and Louis M. Openheimer, Calvert, Tex. Car-coupling.....	Mar. 30, 1875	1105	358	7	531
165, 091	Garrett, Charles C., assignor of one-half interest to Louis M. Openheimer, Calvert, Tex. Dropping-bottle.....	June 29, 1875	1191	383	7	1125
167, 890	Garrett, Henry H., Albany, N. Y. Molder's flask.....	Sept. 21, 1875	483	153	8	490
	Garrett, John. (See Upham, Garrett & Tully.)					
	Garrett, J. Wilson. (See Bee & Garrett.)					
	Garrett, William. (See Gillespie, James, assignor.)					
	Garrett, William H. (See Barnett & Garrett.)					
	Same..... (See McClure, Jacob W., assignor.)					
6, 512	Garrick, Thomas, assignor to Henry A. Church, Providence, R. I. Eyelet.... (Reissue) ..	June 29, 1875	1243	400	7	1132
169, 096	Garrick, Thomas, assignor of two-thirds interest to William H. Reynolds, Providence, } R. I., and Martin T. McMahon, New York, N. Y. Folding stairs for fire-escapes.... }	Oct. 26, 1875	768	{ 249 } { 250 }	8	696
170, 167	Garrison, Abram E., Newton, Kans. Druggist's filter and funnel.....	Nov. 23, 1875	857	268	8	869
6, 802	Garstang, Richard, Saint Louis, Mo. Heater and feeder..... (Reissue) ..	Dec. 14, 1875	542	178	8	1029
165, 487	Garth, George S., and William H. Rosser, assignors to George S. Garth, Mill Hall, Pa. Wagon-brake.....	July 13, 1875	358	105	8	64
162, 051	Garton, James P., Jersey City, N. J. Car-axle box.....	Apr. 13, 1875	411	138	7	637
166, 090	Garton, William, Southampton, England. Manufacture of glucose.....	July 27, 1875	953	.....	8	176
167, 094	Garton, William J., assignor of one-half interest to William Ward, Toronto, Canada. Wax-thread-heating machine.....	Aug. 24, 1875	896	279	8	351
161, 335	Gartside, Joseph H., Port Perry, assignor to John B. Geyser, Pittsburgh, Pa. Draw-head.....	Mar. 30, 1875	1036	337	7	522
	Garver, Cyrus. (See Garver, Daniel and Cyrus.)					
161, 501	Garver, Daniel and Cyrus, Hagerstown, Md. Bag-holder.....	Mar. 30, 1875	1200	385	7	543
165, 556	Garvey, Owen F., Pawtucket, R. I. Boot and shoe stretcher.....	July 13, 1875	417	126	8	74
159, 813	Garvey, Walter J., Saint Louis, Mo. Holder for ornaments, &c.....	Feb. 16, 1875	558	185	7	274
169, 800	Gaskell, Holbrook, jr., Widnes, England. Process of manufacturing caustic soda.....	Nov. 9, 1875	486	.....	8	806
164, 161	Gates, Charles C., Albany, assignor to J. L. Mott Iron Works, New York, N. Y. Grate.....	June 8, 1875	305	104	7	983
166, 982	Gates, Chesley, Locust Grove, Mo. Windmill.....	Aug. 24, 1875	785	242	8	336
167, 236	Gates, Frederick, Frankfort, N. Y. Oil-stove.....	Aug. 31, 1875	1044	324	8	379
167, 237	Same.....	Aug. 31, 1875	1045	324	8	379
159, 245	Gates, Frederick, assignor to William Gates, Frankfort, N. Y. Paper-box machine. } (Reissue) .. }	Jan. 19, 1875	657	{ 214 } { 215 }	7	128
	Gates G. M., et al. (See Hawkins, William G., assignor.)					
170, 668	Gates, Julian H., Hartford, Conn. Key-book.....	Dec. 7, 1875	14	4	8	953
	Gates, Roswell W. (See Swarthout, William A., assignor.)					
161, 605	Gates, Samuel L., assignor of one-half interest to George H. Stetson, Boston, Mass. Car-replacer.....	Apr. 6, 1875	14	6	7	571
	Gates, William. (See Gates, Frederick, assignor)..... (Reissue) ..					
169, 801	Gates, William, assignor to C. Cowles & Co., New Haven, Conn. Curtain-fixture.....	Nov. 9, 1875	487	153	8	806
164, 912	Gates, William H., Philadelphia, Pa. Artificial teeth.....	June 29, 1875	1039	335	7	1104
161, 875	Gathmann, Louis, Chicago, Ill. Middlings-purifier.....	Apr. 13, 1875	264	88, 89	7	618
163, 924	Gaume, Charles J. B., Williamsburgh, N. Y. Electric motor.....	June 1, 1875	72	24	7	940
159, 665	Gauthey, Marc M. E., Paris, France. Metallic cartridge.....	Feb. 9, 1875	402	133	7	248
	Gay, John. (See Kerr, William, assignor)..... (Design.)					
	Gay, Joshua G. (See Porter, Benjamin S., assignor.)					
	Gay, Noah D. (See Harrington, David, assignor.)					
	Gay, Oscar M. (See Baker, Owen T., assignor.)					
166, 200	Gaylord, Charles H., and Edward M. Ayers, Osceola, Ark. Stalk-cutter.....	Aug. 3, 1875	17	6	8	201
167, 328	Gaylord, Elam H., Waterbury, Conn. Diaper-pin.....	Aug. 31, 1875	1122	352	8	390
169, 253	Gazzam, Ebenezer F., Pittsburgh, Pa. Cradle.....	Oct. 26, 1875	907	295	8	715
158, 585	Gear, Alonzo S., Boston, Mass. Car-starter.....	Jan. 12, 1875	224	75	7	55
165, 669	Same..... Molding-machine.....	July 20, 1875	538	164	8	107
171, 474	Same..... Skirt-adjuster.....	Dec. 28, 1875	808	266	8	1082
158, 931	Gearing, Charles M., Pittsburgh, Pa. Hydrocarbon-furnace.....	Jan. 19, 1875	560	186	7	116
161, 775	Same..... Means for discharging bilge-water from vessels.....	Apr. 6, 1875	158	55	7	592
166, 602	Same..... Carbureting apparatus.....	Aug. 10, 1875	401	123	8	264
166, 603	Same..... Gas apparatus.....	Aug. 10, 1875	402	124	8	264
169, 802	Same..... Air-blowing apparatus for carbureters.....	Nov. 9, 1875	488	153	8	806
160, 014	Gedney, William H., New York, N. Y. Construction of floors for the passage of pipes.....	Feb. 23, 1875	762	252	7	309
158, 483	Gee, William, New York, N. Y. Soda-water and sirup cock.....	Jan. 5, 1875	117	40	7	25
159, 915	Same..... Soda-water draft apparatus.....	Feb. 16, 1875	650	215	7	287
6, 301	Gee, William V., Philadelphia, Pa. Loom..... (Reissue) ..	Feb. 23, 1875	964	{ 317 } { 318 }	7	338
163, 863	Geer, Elliott N., Corry, Pa. Spring-buffer for trunks.....	June 1, 1875	24	8	7	934
165, 557	Geer, Everard, Beloit, Wis. Fence-post.....	July 13, 1875	418	126	8	74
	Geerhart, N. H., et al. (See Tyler, Hiram, assignor.)					
160, 892	Gehr, John, Clear Spring, assignor to self and Joseph R. Haines, Green Spring Furnace, Md. Sawing-machine.....	Mar. 16, 1875	600	195	7	448
	Gehrke, Frederick. (See Hinz & Gehrke.)					
163, 472	Geiser, Daniel, Waynesborough, Pa. Horse-power.....	May 18, 1875	710	227	7	864
170, 076	Geldreich, Joseph, assignor to George Doerr, Cincinnati, Ohio. Die for making watch-case centers.....	Nov. 16, 1875	749	237	8	847
169, 433	Gelinas, Zoel, assignor to Moses and Frank H. Goldthwait, Springfield, Mass. Button-feeding device.....	Nov. 2, 1875	103	32	8	749
165, 228	Gent, Joseph F., Columbus, Ind. Drier.....	July 6, 1875	80	24	8	20
162, 545	Gentzel, George, Spring Mills, Pa. Straw-carrier for thrashing-machines.....	Apr. 27, 1875	909	291	7	714
163, 763	Geoghegan, Stephen J., New York, N. Y. Steam-radiator.....	May 25, 1875	987	313	7	907
160, 418	George, David N., and John J. Stutzman, Palaski, Iowa. Churn.....	Mar. 2, 1875	144	50	7	369
159, 175	George, Levi F., San Francisco, Cal. Animal-trap.....	Jan. 26, 1875	803	263	7	156
164, 542	Georgia, Elijah B., assignor to self and Margaret Hetzel, Clifton, Va. Ventilating barrels.....	June 15, 1875	669	217	7	1040
	Gerding, Henry, et al. (See Haddock, Worcester, assignor.)					
	Gere, R. Nelson. (See Hall, Gordon W., assignor.)					
166, 201	Gerfen, Frederick, Locust Grove, Pa. Grain-fork.....	Aug. 3, 1875	17	6	8	201
158, 699	Gerhardt, John, assignor to self and James Hutchison, Montreal, Canada. Resawing-machine.....	Jan. 12, 1875	323	110	7	69

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Gerlach, Peter, <i>et al.</i> (See Blakeslee, John R., assignor.)					
	Gerlach, Rudolph P., <i>et al.</i> (See Blakeslee, John R., assignor.)					
163, 985	Gernshym, Gabriel M., Brooklyn, N. Y. Knitted trimming	June 1, 1875	121	41	7	947
165, 723	Gerow, Joseph U., Brooklyn, N. Y. Pen and pencil case	July 20, 1875	584	179	8	113
165, 558	Gerrish, George M., Brooklyn, N. Y. Hydraulic hoisting-engine	July 13, 1875	419	126	8	74
	Gerry, Edson. (See Wilson & Gerry.)					
6, 499	Gerry, Edson, Garden City, Minn. Bee-hive	June 22, 1875	1014	{ 327 } 328	7	1093
159, 754	Same..... Anti-friction roller	Feb. 16, 1875	502	168	7	267
161, 606	Same..... Bee-hive	Apr. 6, 1875	15	6	7	571
	Gervais & Co., A. (See Gervais, Antoine A., assignor.)					
166, 520	Gervais, Antoine A., assignor to A. Gervais & Co., Paris, France. Traveling-can	Aug. 10, 1875	331	100	8	253
6, 769	Gervin, Charles D., Williamsburgh, N. Y. Argand gas-burner	Nov. 30, 1875	1319	416	8	941
160, 178	Gething, William, David Jenkins, and Sankee Gardner, Neath, South Wales. Apparatus for pickling metal plates	Feb. 23, 1875	899	296	7	328
	Gettman, John H. (See Green, Henry C., assignor.)					
166, 359	Getz, Joseph C., Philadelphia, Pa., assignor of one-half interest to Asa O. Denio, Wilmington, Del. Skelp-forming roll	Aug. 3, 1875	157	48	8	222
167, 522	Getz, Joseph C., Philadelphia, Pa., assignor of one-half interest to A. O. Denio; said Getz and Denio assignors of part interest to George G. Lobdell, Wilmington, Del. Bolt and rivet machine	Sept. 7, 1875	126	38	8	424
	Geyser, John B. (See Gartside, Joseph H., assignor.)					
	Gibbard, Christopher G. (See Dickerson, Theodore J., assignor.)					
171, 557	Gibbs, James E. A., Steele's Tavern, Va. Sewing-machine	Dec. 28, 1875	888	291	8	1093
171, 558	Same..... same	Dec. 28, 1875	889	291	8	1093
171, 559	Same..... same	Dec. 28, 1875	891	291	8	1093
161, 220	Gibbs, Manson F., Livonia, N. Y. Harvester-rake	Mar. 23, 1875	908	297	7	499
166, 927	Gibbs, Peter B., and James C. Brown, Liberty, Va. Self-setting animal-trap	Aug. 24, 1875	730	226	8	328
169, 994	Giblin, John, Boston, Mass. Base-ball	July 27, 1875	862	265	8	163
169, 987	Gibson, Charles D. P., New York, N. Y. Stem-winding watch	Nov. 16, 1875	663	208	8	836
	Gibson, Charles O. (See McEwan & Gibson.)					
	Gibson, E. M., <i>et al.</i> (See Rhodes & Redmond, assignors.)					
	Gibson, Henry B. (See Moore, Jehu C., assignor.)					
163, 178	Gibson, Jacob H., assignor to William J. Phelps, Springfield, and Willard P. Abernethy, Northampton, Mass. Carriage-top	May 11, 1875	428	139	7	810
	Gibson, James A. (See Lawton & Gibson.)					
165, 724	Gibson, James A., Cincinnati, Ohio. Boiler for ranges	July 20, 1875	585	179	8	114
162, 282	Gibson, Robert F., assignor of one-half interest to Franklin N. Clark, Cleveland, Ohio. Key-fastener	Apr. 20, 1875	639	209	7	673
165, 559	Gibson, Samuel, Shrewsbury, assignor of one-half interest to Hiram Young, York, Pa. Rotary engine	July 13, 1875	420	127	8	75
162, 468	Giddings, Erastus W., Johnstown, Pa. Refrigerator	Apr. 27, 1875	842	271	7	706
163, 179	Giessler, John L., Clinton, Iowa. Gate-latch	May 11, 1875	429	139	7	810
168, 980	Giffard, Paul, Paris, France, assignor to Charles J. A. Dick, Philadelphia, Pa. Air-spring for cars	Oct. 19, 1875	635	210	8	671
168, 150	Gifford, Albert W., Worcester, Mass. Machine for making metal screws	Sept. 28, 1875	746	235	8	535
160, 893	Gilbert, Alfred C., Philadelphia, Pa. Ironing-table	Mar. 16, 1875	601	196	7	449
167, 658	Gilbert, Alpha W., Lodi, Ohio. Carriage-top	Sept. 14, 1875	259	80	8	450
160, 179	Gilbert, Daniel, Waynesborough, Pa. Pipe-wrench	Feb. 23, 1875	901	296	7	328
161, 502	Gilbert, Frederick A., New Haven, Conn. Convertible table	Mar. 30, 1875	1201	385	7	543
168, 735	Gilbert, George W., East Prospect, Pa. Washing-machine	Oct. 11, 1875	404	131	8	629
162, 052	Gilbert, Jacob P., New York, N. Y. Combined quarter-boot and toe-weight for horses	Apr. 13, 1875	412	138	7	637
158, 635	Gilbert, John W., assignor to Samuel S. White, Philadelphia, Pa. Hand-piece for dental instruments	Jan. 12, 1875	265	90	7	61
158, 932	Same..... Hand-piece of dental engines	Jan. 19, 1875	561	186	7	116
171, 009	Same..... Hand-piece for dental drills	Dec. 14, 1875	337	112	8	1002
161, 503	Gilbert, Joseph, Philadelphia, Pa. Shirt-envelope	Mar. 30, 1875	1202	386	7	543
	Gilbert, Samuel. (See Martin, William F., assignor.)					
164, 543	Gilbert, William, Catskill, N. Y. Printer's side-stick and quoin	June 15, 1875	669	217	7	1040
	Gilbert, William F. (See Church & Gilbert.)					
	Same..... (See Ferguson & Gilbert) (Design.)					
	Gilbert, Zalmon. (See Murray, Gilbert & Ostrom) (Design.)					
164, 442	Gilchrist, Robert, Louisville, Ky. Extension-ladder	June 15, 1875	585	190	7	1029
170, 726	Gilchrist, Hugh H., Swan Creek, assignor of one-half interest to John J. Worden, Youngstown, Ill. Corn-uncoverer	Dec. 7, 1875	66	21	8	959
165, 414	Giles, Henry G., Troy, N. Y. Heating-stove	July 13, 1875	283	84	8	54
162, 164	Gilfillan, William, Syracuse, N. Y. Combination-lock	Apr. 20, 1875	533	175	7	660
166, 604	Gill, George, and Frederick V. Beisel, Allegheny, assignors of one-third interest to William J. Knell and Lizzie H. Kennedy, Pittsburgh, Pa. Railway-switch	Aug. 10, 1875	403	124	8	264
163, 180	Gill, Henry J., Dublin, Ireland. Machine for calendering printed sheets	May 11, 1875	429	140	7	811
163, 180	Gill, Jabez H., Philadelphia, Pa., assignor of one-half interest to Frank H. Phipps. Cartridge for fire-arms	May 11, 1875	430	140	7	811
8, 663	Gill, James C., Pittsburgh, Pa. Glassware	Sept. 28, 1875			8	520
165, 608	Gill, James C., assignor to John Adams & Co., Pittsburgh, Pa. Manufacture of glass-ware	Sept. 14, 1875	217	67	8	443
164, 544	Gill, John, Orange, N. J. Machine for forming hat-bodies	June 15, 1875	670	217	7	1040
	Gill, John M. (See Brooks, Mott B., assignor.)					
171, 117	Gill, Joseph P., Newark, N. J., assignor to Robert W. Rutherford and Joseph P. Gill, trustees. Manufacture of gas	Dec. 14, 1875	433	{ 144 } 145	8	1916
160, 820	Gill, Owen A., New York, N. Y. Game-board	Mar. 16, 1875	544	176	7	441
167, 163	Gillen, William S., assignor to self and James D. Boal, Pittsburgh, Pa. Apparatus for preparing oil-well gas for heating furnaces	Aug. 31, 1875	983	305	8	370
162, 283	Gillespie, Cyrus E., Edwardsville, Ill. Automatic gate	Apr. 20, 1875	640	209	7	673
170, 361	Gillespie, Henry M., and Virgil True, Laclede, Mo. Shifting carriage-top	Nov. 23, 1875	1025	321	8	893
	Gillespie, James. (See Hart, Richard, assignor.)					
159, 814	Gillespie, James, assignor to self and William Garrett, Cleveland, Ohio. Binder for roll-couplings	Feb. 16, 1875	558	185	7	274
163, 008	Gillespie, James E., and Galen Coffin, Boston, Mass. Sash-fastener	May 11, 1875	270	88	7	790
163, 925	Gillespie, James E., assignor to Theodore A. Dodge, trustee, Boston, Mass. Loom for weaving tubular fabrics	June 1, 1875	73	24	7	940
169, 098	Same..... Hand-loom	Oct. 26, 1875	770	250	8	696
	Gillespie, Richard S. (See Worthen & Gillespie.)					
168, 477	Gillespie, Richard S., assignor to Hamilton B. Tompkins and Samuel Samuels, New York, N. Y. Night-soil apparatus	Oct. 5, 1875	139	47	8	585
	Gillespie, Thomas A. (See Biggerstaff, John, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Gillett, Edward A., et al. (See Bailey, Samuel R., assignor.)					
	Gillett, Oscar S., et al. (See Bailey, Samuel R., assignor.)					
	Gillies, James M., et al. (See Preater, James H., assignor.)					
	Gillies, Wright, et al. (See Preater, James H., assignor.)					
161, 776	Gilliford, John, and John M. Hoffman, Spruce Hill, Pa. Automatic fan	Apr. 6, 1875	159	55	7	592
	Gilliland, Ezra T. (See Kennoek & Gilliland.)					
	Gilliland, James F. (See Kennoek & Gilliland.)					
171, 010	Gilliland, Samuel B., Salisbury, Mo. Self-rake for reapers	Dec. 14, 1875	338	112	8	1003
	Gillingham, Albert L. (See Gillingham, Charles H. and Albert L.)					
166, 983	Gillingham, Charles H. and Albert L., Griggsville, Ill. Detachable link for chains	Aug. 24, 1875	786	243	8	336
160, 821	Gilman, Alonzo, Lewiston, Idaho. Railway-car truck	Mar. 16, 1875	544	176	7	441
	Gilman, Edward L. (See Foote & Gilman.)					
159, 257	Gilman, Samuel H., New Orleans, La. Locking knob-latch	Feb. 2, 1875	13	5	7	186
159, 258	Same. Bale tie	Feb. 2, 1875	16	5	7	187
171, 560	Gilman, Samuel H., New Orleans, La., assignor to Louisiana Cotton Tie Company. Cotton-bale-band tightener	Dec. 28, 1875	892	{ 291 292 }	{ 8 8 }	{ 1093 1093 }
	Gilmore, Alexander, et al. (See Irvin, Thomas W., assignor.)					
171, 475	Gilmore, George W., Webster, Pa. Piston or plunger for force-pumps	Dec. 28, 1875	809	267	8	1082
160, 180	Gilmore, Henry H., Cambridgeport, Mass. Fire-chamber for puddling and other furnaces	Feb. 23, 1875	901	297	7	328
163, 864	Same. Roll for rolling and creasing horseshoe-bars	June 1, 1875	25	8	7	134
164, 914	Same. Horseshoe-blank bar	June 29, 1875	1040	335	7	1105
167, 891	Gilmore, Hugh, and Joseph T. Spencer, Saint Louis, Mo. Rein-holder	Sept. 21, 1875	484	153	8	490
168, 389	Gilmore, Orpheus C., Janesville, Wis. Hand corn-planter	Oct. 5, 1875	61	22	8	573
166, 360	Gilmore, Othniel, Boston, Mass. Sand-paper roll	Aug. 3, 1875	157	49	8	222
163, 182	Gilmore, William H., Shiloh, Ohio. Process of manufacturing cider	May 11, 1875	431		7	811
6, 267	Gilson, Leonard, Boston, Mass. Hand-truck (Reissue)	Feb. 2, 1875	239	78	7	217
161, 945	Gilzinger, Sebastian, Glasco, assignor to self and Abel A. Crosby, Kingston, N. Y. Wagon-seat	Aug. 13, 1875	325	109	7	626
161, 946	Same. Car-brake	Aug. 13, 1875	325	109	7	626
169, 254	Gilzinger, Sebastian, assignor to self and Abel A. Crosby, Rondout, N. Y. Vehicle-spring	Oct. 26, 1875	908	295	8	716
169, 255	Same. same	Oct. 26, 1875	909	295	8	716
169, 256	Same. Carriage-seat	Oct. 26, 1875	909	295	8	716
8, 597	Girard, John, assignor to Landers, Frary & Clarke, New Britain, Conn. Coffee-mill (Design)	Sept. 7, 1875			8	403
159, 916	Girhardt, Leonhard, New York, N. Y. Reversible hat	Feb. 16, 1875	651	216	7	287
158, 586	Gird, Edward D., Syracuse, N. Y. Safety device for preventing vessels from running on shore	Jan. 12, 1875	225	76	7	55
167, 759	Gisburne, John R., Washington, D. C. Ruling-pen	Sept. 14, 1875	351	111	8	463
	Gish, James C., et al. (See McGhee, William T., assignor.)					
	Gissinger, Samuel. (See Johnston & Gissinger.)					
161, 025	Githens, George M., New York, N. Y. Valve for engines	Mar. 23, 1875	726	239	7	475
	Githens, Joseph C. (See Nutting & Githens.)					
164, 990	Githens, Joseph C., New York, N. Y. Steam rock-drill	June 29, 1875	1104	356	7	1113
164, 991	Same. Chuck for rock-drills	June 29, 1875	1106	357	7	1113
166, 273	Same. Buffer for steam rock-drills	Aug. 3, 1875	80	25	8	210
167, 659	Same. Tripod for rock-drills	Sept. 14, 1875	259	81	8	450
170, 362	Gittere, Florence, Buffalo, N. Y. Washing-machine	Nov. 23, 1875	1026	321	8	893
	Givens, William J. (See Shiram & Givens.)					
166, 867	Glachet, Adonis, Alexandria, Va. Gas-apparatus	Aug. 17, 1875	660	205	8	310
168, 390	Same. Gas-machine	Oct. 5, 1875	62	22, 23	8	573
167, 164	Gladding, George S., Chester, assignor to Calvin B. Rogers, Deep River, Conn. Carpet-sweeper	Aug. 31, 1875	984	306	8	370
	Gladding, Thomas S. (See Haight & Gladding.)					
167, 329	Glanz, Henry, assignor of one-half interest to Peter C. Glanz, Buffalo, N. Y. Machine for making rope-molding	Aug. 31, 1875	1122	{ 352 353 }	{ 8 8 }	{ 390 390 }
	Glanz, Peter C. (See Glanz, Henry, assignor.)					
158, 933	Glascock, Frank R., Hillsborough, Ohio. Sash-holder	Jan. 19, 1875	562	186	7	116
	Glase, Charles F., et al. (See Phillippi, Francis A., assignor.)					
164, 727	Glasgow, William. (See Nutsford & Glasgow.)					
	Glasoe, Ole J., Lanesborough, Minn. Plow	June 22, 1875	848	275	7	1073
161, 607	Glass, Archibald O. (See Palmer, Milton J., assignor.)					
162, 469	Glass, Jacob, Buffalo, N. Y. Shaping-block for fur sacks	Apr. 6, 1875	16	7	7	571
159, 917	Glassbrook, Myron, Batchellerville, N. Y. Sleigh-knee	Apr. 27, 1875	843	271	7	706
	Glassbrook, Myron, assignor of one-half interest to Joseph P. Parkhurst, Batchellerville, N. Y. Spoke-socket for vehicle-wheels	Feb. 16, 1875	652	216	7	287
160, 765	Glazier, Charles, Indianapolis, Ind. Machine for crushing coke	Mar. 16, 1875	495	161	7	434
	Gleason, Elliott P. (See Dayton, Henry G., assignor.)					
6, 491	Gleason, Elliott P. (See Walker, Edwin R., assignor.) (Reissue)	June 22, 1875	1006	325	7	1092
159, 918	Gleason, Erastus, and Robert Hamilton, Greenwich, N. Y. Machine for shaping horse-shoe-calks	Feb. 16, 1875	653	216	7	257
164, 291	Same. Machine for calking horseshoes	June 8, 1875	428	142	7	999
165, 323	Gleason, Franklin, Philadelphia, Pa. Band-saw wheel	July 6, 1875	165	50	8	31
158, 700	Gleason, John, Brooklyn, N. Y. Lamp-burner	Jan. 12, 1875	324	110	7	69
8, 066	Gleason, William B., Boston, Mass. Alto-relievo (Design)	Feb. 16, 1875			7	261
	Glenn, Edward. (See McCarty & Glenn.)					
163, 764	Glenn, Samuel W., Georgetown, D. C. Glove-fastening	May 25, 1875	988	313	7	907
167, 446	Gleyre, Henry G., Glasgow, Mo. Refrigerator	Sept. 7, 1875	60	18	8	414
	Glidden, Charles W. (See McKay, Fairfield & Glidden.)					
166, 765	Glidden, Charles W., Lynn, and Stephen A. Simmons, Lawrence, assignors to James W. Brooks, trustee, Boston, Mass. Boot and shoe heel trimmer	Aug. 17, 1875	567	174	8	296
158, 369	Glidden, Oscar F., Boston, Mass. Clothes-wringer	Jan. 5, 1875	17	6	7	11
168, 894	Glines, Josiah, and Noel W. Stiles, Postville, Iowa. Sewing-machine	Oct. 19, 1875	553	181	8	659
	Globe Nail Company. (See Cady, Ransom E., assignor.)					
164, 162	Glover, Almon B., and Dwight M. Church, Derby, Conn. Paper-bag machine	June 8, 1875	305	{ 104 105 }	{ 7 7 }	{ 983 983 }
164, 163	Glover, Charles C., New York, N. Y. Carbonic-acid-gas generator	June 8, 1875	308	105	7	984
169, 536	Glover, Edward W., Malden, Mass. Fire-proof covering for books	Nov. 2, 1875	190	65	8	761
167, 660	Glover, Joshua W., assignor to self and William R. Kitchen, Mount Savage, Ky. Horse-detaching apparatus	Sept. 14, 1875	260	81	8	450
167, 892	Glück, Moritz, New York, N. Y. Vehicle-spring	Sept. 21, 1875	485	153	8	490
6, 479	Glue, William, Muskegon, Mich. Refuse-burner (Reissue)	June 8, 1875	496	163	7	1008
163, 473	Same. Saw-mill head-block	May 18, 1875	711	228	7	864
162, 284	Gluud, Carl, New York, N. Y. Cigar-box	Apr. 20, 1875	641	209	7	673

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume		Official Gazette.	
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165, 725	Glynn, Lawrence, Cambridgeport, Mass. Pipe-wrench	July 20, 1875	586	180	8	114
170, 728	Gmeiner, Conrad, and Christoph Schottler, Dale, Wis. Corn-planter	Dec. 7, 1875	68	21	8	959
162, 053	Gmeiner, Mathias, Saint Louis, Mo., assignor to self and Henry Pins. Rain-water cut-off	Apr. 13, 1875	413	138	7	637
164, 545	Gnosill, Henry, Detroit, Mich. Faucet	June 15, 1875	671	217	7	1040
171, 371	Gobiet, Emil S., Mahrisch Osterreich, Austria. Coke-oven	Dec. 21, 1875	698	230	8	1059
	Goble, Melvin D. (See Van Wagenen & Goble.)					
170, 546	Goddard, Ezra G., East Saginaw, Mich. Car-starter	Nov. 30, 1875	1215	382	8	927
165, 442	Goddard, Henry P., Orange, Mass. Meat-cutter	July 13, 1875	313	92	8	58
6, 803	Goddu, Louis, assignor, by mesne assignments, to American Cable Screw Wire Company, Boston, Mass. Pegging-machine	Dec. 14, 1875	543	178	8	1029
162, 643	Goddu, Louis, Winchester, assignor to American Cable Screw Wire Company, Boston, Mass. Sole-fastening	Apr. 27, 1875	988	318	7	725
163, 474	Same..... Machine for nailing shoe-soles from nail-strips	May 18, 1875	713	228 } 229 }	7	864
163, 475	Same..... Jack attachment for nailing-machines for boots and shoes	May 18, 1875	718	229	7	865
163, 476	Same..... Shoe nailing and tacking machine	May 18, 1875	719	229	7	865
163, 477	Same..... Shoe-nailing machine	May 18, 1875	722	230	7	865
167, 523	Goddu, Louis, assignor to American Cable Screw Wire Company, Boston, Mass. Sole-channeling machine	Sept. 7, 1875	127	39	8	424
167, 760	Same..... Machine for screw-threading wire	Sept. 14, 1875	351	112	8	463
168, 478	Same..... Hand-tool for channeling soles	Oct. 5, 1875	141	47	8	585
168, 736	Goddu, Louis, assignor, by mesne assignments, to Horace Barnard, New York, N. Y. Book-stitching machine	Oct. 11, 1875	405	132	8	630
169, 257	Goddu, Louis, assignor to American Cable Screw Wire Company, Boston, Mass. Nail for sole-fastenings	Oct. 26, 1875	910	296	8	716
171, 509	Same..... Pegging-machine	Dec. 28, 1875	940	308	8	1100
171, 610	Same..... same	Dec. 28, 1875	946	309 }	8	1100
162, 470	Godfrey, Cornelius, Huntington, N. Y. Surface-condenser	Apr. 27, 1875	844	271	7	707
	Godfrey, James W. (See Godfrey, William L., assignor.)					
160, 766	Godfrey, William L., assignor to self and James W. Godfrey, New York, N. Y. Pistol-stock	Mar. 16, 1875	495	161	7	434
163, 478	Godfrey, William L., New York, N. Y. Pistol-stock	May 18, 1875	723	230	7	865
	Godley, George F. (See Doubler, John W. H., assignor.)					
161, 115	Godley, George F., Philadelphia, Pa. Car-spring	Mar. 23, 1875	814	266	7	486
162, 165	Same..... Spring for vehicles	Apr. 20, 1875	534	175 }	7	660
171, 611	Same..... Car-ventilator	Dec. 28, 1875	954	309 }	8	1101
	Godshall, Edward H. (See McLaughlin, Sallie, assignor)					
	Godshall, William S. (See Fink, John B., assignor.)					
165, 726	Godwin, Joshua B., Washington, N. C. Lamp	July 20, 1875	586	180	8	114
169, 434	Godwin, Thomas W., Norfolk, Va. Steam-boiler	Nov. 2, 1875	104	32, 33	8	849
161, 876	Goebel, John C., Chicago, Ill. Cap	Apr. 13, 1875	265	89	7	618
160, 584	Goetz, Bernard, assignor of one-half interest to Frederick Klemm, Philadelphia, Pa. Reflector	Mar. 9, 1875	306	104	7	401
8, 001	Goetze, Heinrich F., assignor to Roxbury Carpet Company, Boston, Mass. Carpet. (Design)	Jan. 12, 1875			7	48
8, 162	Same..... same	Feb. 23, 1875			7	302
8, 330	Same..... same	May 18, 1875			7	837
8, 444	Same..... same	June 29, 1875			7	1098
8, 445	Same..... same	June 29, 1875			7	1098
8, 598	Same..... same	Sept. 7, 1875			8	493
8, 874	Goetz, Heinrich F., Boston, Mass., assignor to Roxbury Carpet Company. Carpet. (Design)	Dec. 28, 1875			8	1076
8, 875	Same..... same	Dec. 28, 1875			8	1076
	Goewey, John A. (See Vedder, Nicholas S., assignor)					
166, 521	Goff, George W., assignor to East Hampton Bell Company, East Hampton, Conn. Sleigh-bell	Aug. 10, 1875	331	100	8	254
170, 077	Goforth, William, Windsor, Mo. Spring bed-bottom	Nov. 16, 1875	750	237	8	847
171, 561	Same..... Washing-machine	Dec. 28, 1875	894	292	8	1094
170, 168	Gogerty, John, Decatur, Ill. Railway-chair	Nov. 23, 1875	858	268	8	869
159, 088	Going, Francis R., Boston, Mass. Hat-block	Jan. 26, 1875	727	240	7	146
	Gold and Stock Telegraph Company. (See Edison, Thomas A., assignor.)					
	Same..... (See Foote & Randall, assignors)					
161, 947	Gold, Joseph S., Washington, D. C. Cloth-measuring machine	Apr. 13, 1875	326	109 }	7	626
167, 330	Gold, Joseph S., Washington Court-House, Ohio. Combined sign and order slate	Aug. 31, 1875	1124	353 }	8	390
163, 737	Gold, Samuel F., Englewood, N. J. Automatic damper	Oct. 11, 1875	408	132	8	630
163, 009	Gold, Stephen J., Cornwall, Conn. Hot-air furnace	May 11, 1875	273	88	7	791
163, 010	Same..... Founder's pattern	May 11, 1875	273	88	7	791
167, 331	Goldbach, Ferdinand, Williamsburgh, N. Y. Extension-table	Aug. 31, 1875	1124	353	8	390
164, 292	Golden, Johnston, assignor of one-half interest to George Baldwin, Bradford, Vt. Farm-gate	June 8, 1875	429	143	7	999
165, 995	Goldfinger, Adolph, Newark, N. J. Lock for doors	July 27, 1875	863	265	8	163
160, 666	Goldmann, Philipp, New York, N. Y. Hat and cap	Mar. 9, 1875	376	127	7	412
	Goldmark, Joseph. (See Moore, Daniel, assignor.)					
168, 895	Goldmark, Joseph, Brooklyn, N. Y. Detonating-cap for blasting, &c	Oct. 19, 1875	554	181	8	659
159, 089	Goldsmith, Abraham A., Charleston, S. C. Bale-tie	Jan. 26, 1875	727	241	7	146
159, 815	Same..... same	Feb. 16, 1875	559	186	7	274
160, 419	Goldsmith, Abram A., Charleston, S. C. Temporary binder	Mar. 2, 1875	145	51	7	369
158, 370	Goldsmith, Jacob B., Rockport, Mass. Hold-back	Jan. 5, 1875	18	6	7	11
158, 371	Same..... Shaft-tip for vehicles	Jan. 5, 1875	18	6	7	11
162, 054	Goldsmith, J. Mortimer, Boston, Mass. Bale-tie	Apr. 13, 1875	414	138	7	637
163, 649	Same..... same	May 25, 1875	895	283	7	895
164, 164	Same..... same	June 8, 1875	311	105	7	984
164, 165	Same..... same	June 8, 1875	311	106	7	984
	Goldsmith, Joshua. (See Smith & Goldthorp.)					
	Goldsmith, Theodore. (See Winslow & Goldsmith.)					
164, 992	Goldstein, Jacob, assignor of one-half interest to Raphael Phillipson, Chicago, Ill. Key-hole guard	June 29, 1875	1106	357	7	1113
	Goldthorp, Joshua. (See Smith & Goldthorp.)					
	Goldthorp, Joshua, et al. (See Smith, William, assignor.)					
	Goldthwaite, Frank H., et al. (See Gelinas, Zoel, assignor.)					
	Goldthwaite, Moses, et al. (See Gelinas, Zoel, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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171, 372	Goldy, Daniel, assignor of one-half interest to James M. Goldy, Philadelphia, Pa. Safety-attachment for pockets.	Dec. 21, 1875	699	230	8	1059
	Goldy, James M. (See Goldy, Daniel, assignor.)					
	Goldy, Leander W. (See Anderson & Goldy.)					
164, 829	Gonce, John W., Jackson County, Ala. Excavator	June 22, 1875	941	304	7	1084
	Gong-Bell Manufacturing Company. (See Barton, Elijah C., assignor.)					
	Same. (Reissue.)					
165, 443	Good, Abraham B., Conestoga, Pa. Meat-cutter	July 13, 1875	314	92	8	58
161, 777	Good, Christian, Arcanum, Ohio. Table-fan	Apr. 6, 1875	160	55	7	592
164, 546	Good, John, Brooklyn, N. Y. Regulator for hemp drawing and spinning machines	June 15, 1875	672	218	7	1040
	Good, Thomas G. (See Dorman & Good.)					
162, 912	Goodale, Levi C., Cincinnati, Ohio. Ornamentation of show-cards	May 4, 1875	160	52	7	768
163, 588	Goodall, Albert B., assignor of one-half interest to John W. Biddle, Philadelphia, Pa. Joint for lead pipes	May 25, 1875	840	265	7	888
169, 988	Goodell, Dexter W., Florence, Mass. Faucet	Nov. 16, 1875	664	208	8	836
159, 259	Goodfellow, John H., Troy, N. Y. Reservoir cooking-stove	Feb. 2, 1875	17	6	7	187
159, 406	Same. Ash-sifter for stoves	Feb. 2, 1875	150	50	7	205
159, 666	Same. Ash-sifter	Feb. 9, 1875	403	134	7	248
159, 667	Same. Ash-sifting device	Feb. 9, 1875	404	134	7	248
159, 668	Same. Ash-sifter	Feb. 9, 1875	405	134	7	248
	Goodhue, Wayland S. (See Elward, John H., assignor.) (Reissue.)					
167, 447	Goodman, Eugene F., Clinton, Iowa. Copy-book	Sept. 7, 1875	60	18	8	415
170, 078	Goodman, Horatio N., Syracuse, N. Y. Reed-organ	Nov. 16, 1875	750	237	8	848
164, 293	Goodman, Joseph, Pittsburgh, Pa. Rotary churn	June 8, 1875	430	143	7	999
165, 560	Goodnough, Alfred, and Thomas Drennen, Portland, Ore. Reciprocating churn	July 13, 1875	421	127	8	75
160, 015	Goodnow, Daniel, jr., Boston, Mass. Device for cutting out sheet-metal washers	Feb. 23, 1875	763	252	7	309
162, 746	Goodrich, Barnard, Exeter, assignor to self and George H. Tuck, Stratham, N. H. Road-scraper	May 4, 1875	10	4	7	748
	Goodrich, Harry C. (See Convers, Wilber H., assignor.)					
6, 316	Goodrich, Harry C., Chicago, Ill. Tuck-marker for sewing-machines. (Reissue.)	Mar. 2, 1875	230	79	7	382
162, 225	Same. Tuck-marker	Apr. 20, 1875	590	113	7	667
162, 226	Same. same	Apr. 20, 1875	591	194	7	667
162, 227	Same. Tuck-creaser	Apr. 20, 1875	592	194	7	667
167, 399	Same. Snap-hook	Sept. 7, 1875	19	5	8	409
	Goodrich, Henry O. (See Cram, Alonzo W., assignor.)					
	Goodrich, James. (See Read, Calvin D. and Ellis D., assignors.)					
	Goodrich, John C., et al. (See Ker, William W., assignor.)					
169, 633	Goodridge, James F., New York, N. Y. Sleeping-car	Nov. 9, 1875	311	99	8	784
6, 781	Goodridge, John M., assignor, by mesne assignments, to William D. Reynolds, trustee, Norfolk, Va., and Charles Harvey, Baltimore, Md. Tag-fastener. (Reissue.)	Dec. 7, 1875	247	83	8	983
165, 561	Goodsell, George H., Leechburgh, Pa. Steam or gas and air blast pipe for furnaces	July 13, 1875	421	127	8	75
166, 766	Goodspeed, Isaac, Greenville, Conn. Garden-trellis	Aug. 17, 1875	569	175	8	297
169, 099	Goodwin, Asahel J., Brookline, Mass. Invalid-bedstead	Oct. 26, 1875	771	251	8	696
166, 091	Goodwin, Charles H., assignors to Waterbury Button Company, Waterbury, Conn. Button	July 27, 1875	954	293	8	176
166, 092	Goodwin, Frank C., Boston, Mass. Shirt-bosom	July 27, 1875	954	294	8	176
165, 670	Goodwin, Frederick T., and Addison Ives, Boston, Mass. Dredging-box	July 20, 1875	539	164	8	107
161, 778	Goodwin, George H., Boston, and George W. Seaverns, Lawrence, Mass., said Seaverns assignor to said Goodwin. Composition for filling the fibers of paper	Apr. 6, 1875	160		7	592
160, 667	Goodwin, James, Lenoxville, Canada. Invalid-bedstead	Mar. 9, 1875	376	{ 127 128 }	7	412
164, 915	Goodwin, John M., Cleveland, Ohio. Locomotive for burning hydrocarbon	June 29, 1875	1041	335	7	1105
158, 372	Goodwin, Lewis, Gold Hill, Nev., and Samuel A. West, San Francisco, Cal. Pump	Jan. 5, 1875	19	7	7	11
6, 248	Goodwin, Richard J. P., Manchester, N. H., assignor to Edward P. Woods, Daniel Sherwood, and Cyrus H. Latham, Lowell, Mass. Construction of strainers. (Reissue.)	Jan. 26, 1875	870	283	7	166
163, 479	Goodwin, William C., New Haven, Conn. Corset-clasp	May 18, 1875	724	230	7	865
158, 636	Goodwin, William W., Camden, N. J. Electrical photo-meter balances	Jan. 12, 1875	266	90	7	61
159, 816	Same. Gas-retort	Feb. 16, 1875	560	186	7	274
161, 948	Goodwin, William W., National Post-Office, Iowa. Rock-drill	Aug. 13, 1875	327	110	7	626
6, 254	Goodwin, William W., Philadelphia, Pa. Gas light and pressure indicator. (Reissue.)	Jan. 26, 1875	897	286	7	167
164, 728	Same. Portable or hand photometer	June 22, 1875	849	275	7	1073
159, 755	Goodwyn, Simeon T., New Orleans, La., assignor to Virginia H. Goodwyn. Steam culinary vessel	Feb. 16, 1875	503	168	7	267
	Goodwyn, Virginia H. (See Goodwyn, Simeon T., assignor.)					
161, 221	Goodyear, Andrew, Albion, Mich. Excavator	Mar. 23, 1875	909	{ 297 298 }	7	499
160, 894	Goodyear, Andrew, assignor to Zebulon C. Brown, Albion, Mich. Top-support for carriages	Mar. 16, 1875	602	196	7	449
	Goodyear Boot and Shoe Sewing Machine Company. (See Goodyear & Hadley, assignors.)					
170, 547	Goodyear, Charles, jr., New Rochelle, and Benjamin H. Hadley, Brooklyn, N. Y., assignors to Goodyear Boot and Shoe Sewing Machine Company. Machine for sewing boots and shoes	Nov. 30, 1875	1216	382	8	927
	Goodyear's India Rubber Glove Manufacturing Company. (See Schlarbaum, Hermann, assignor.)					
163, 064	Goodyear, Robert B., Wilmington, Del., assignor of one-half interest to Wolfenden, Shore & Co., Cardington, Pa. Shedding mechanism for looms	May 11, 1875	325	105	7	797
166, 928	Goodyear, Robert B., Philadelphia, assignor of one-half interest to Wolfenden, Shore & Co., Cardington, Pa. Shedding mechanism for looms	Aug. 24, 1875	731	227	8	328
169, 634	Gould, John C., Albany, N. Y. Carriage-top	Nov. 9, 1875	313	100	8	784
	Goolsbee, John N., et al. (See Stewart, John W., assignor.)					
163, 765	Goolsbee, John N., assignor of two-thirds interest to J. W. Stewart and J. K. Durham, Woodville, Tex. Vegetable cutter	May 25, 1875	988	313	7	907
168, 981	Gorby, William A., Bellaire, Ohio. Glass cigar-lighter	Oct. 19, 1875	637	210	8	671
163, 183	Gordon, Alexander, George Telford, and Jacob H. Myers, Rochester, N. Y., assignors to Hubbard Harvester Company, Minneapolis, Minn. Mowing-machine	May 11, 1875	432	140	7	811
166, 605	Gordon, Alexander, Jacob H. Myers, George Telford, and Moses G. Hubbard, Rochester, assignors to Differential Gearing Company, Syracuse, N. Y. Harvester	Aug. 10, 1875	403	124	8	264
165, 727	Gordon, Charles, Savannah, Ga. Double-acting pump	July 20, 1875	587	180	8	114
168, 982	Gordon, Charles H., Brooklyn, N. Y. Vault-cover	Oct. 19, 1875	637	211	8	671
	Gordon, Charlotte. (See Wroth, Alfred B., assignor.)					
171, 221	Gordon, George P., Brooklyn, N. Y. Stage-scenery	Dec. 21, 1875	567	186	8	1041
170, 252	Gordon, George W., Beverly, Ohio. Horse-power	Nov. 23, 1875	934	291	8	880
164, 166	Gordon, Gerald, Boston, Mass. Food for animals	June 8, 1875	312		7	924
160, 181	Gordon, Horace L., West Garland, Me. Gearing	Feb. 23, 1875	902	297	7	328
162, 376	Gordon, James, San Francisco, Cal. Railway-signal	Apr. 20, 1875	734	239	7	684

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163, 480	Gordon, James F., Rochester, N. Y. Grain-binder	May 18, 1875	724	230	7	865
169, 258	Same	Oct. 26, 1875	911	296	8	716
167, 400	Gordon, James P., Karn's City, Pa. Packer for shutting off water from oil-wells	Sept. 7, 1875	19	6	8	409
160, 585	Gordon, John, San Francisco, Cal. Reversible pinion for watches	Mar. 9, 1875	307	104	7	401
170, 948	Gordon, Richard H., jr., Cleveland, Ohio. Furnace for steam-boilers	Dec. 14, 1875	278	94	8	995
162, 377	Gordon, Thomas J., and Delos H. Bumpus, Rouseville, Pa. Process of manufacturing lubricating-oils	Apr. 20, 1875	735	.....	7	684
160, 265	Gordon, William J., Philadelphia, Pa. Seaming-machine	Mar. 2, 1875	9	4	7	350
170, 727	Gordon, William J., assignor to James C. Moore and Patrick Hickey, Philadelphia, Pa. Can-seaming machine	Dec. 7, 1875	67	21	8	959
6, 640	Gore, Henry A. (See Edgcomb & Gore.)					
162, 228	Gore, John, Brattleborough, Vt. Harvester	Sept. 14, 1875	406	130	8	471
166, 767	Gore, Myron, assignor to William Stormont, Ottawa, Ill. Windmill	Apr. 20, 1875	593	194	7	667
165, 444	Gorham, Clark I., Chicago, Ill. Nursery-lamp	Aug. 17, 1875	570	175	8	297
163, 372	Gorham, Clark I., and Edwin J. Cubley, Chicago, Ill.; said Cubley assignor to said Gorham. Nursery-lamp	July 13, 1875	315	92	8	58
159, 506	Gorham, Elijah D., Hadley, Ill. Cultivator	May 18, 1875	626	200	7	852
159, 507	Gorham, Marquis L., Rockford, Ill. Grain-binder	Feb. 9, 1875	264	86, 87	7	229
160, 895	Same	Feb. 9, 1875	271	88	7	229
168, 983	Same	Mar. 16, 1875	602	196	7	449
163, 766	Gormly, Robert W., Troy, N. Y. Landing-wheel for knitting-machines	Oct. 19, 1875	638	211	8	671
160, 668	Gorton, Daniel J., Quincy, Ill. Pump	May 25, 1875	989	314	7	907
160, 317	Gorton, James, New York, N. Y. Chimney-cap	Mar. 9, 1875	378	128	7	412
160, 586	Gory, Emanuel G. (See Pearson, Samuel, assignor.)					
167, 095	Goshert, Christian E., Chambersburgh, Pa. Millstone-balance	Mar. 2, 1875	56	20	7	357
168, 633	Gosling, John W., Cincinnati, Ohio. Spring and side-bar connection for vehicles	Mar. 9, 1875	397	104	7	401
160, 420	Gosnell, William H., et al. (See Hartzell, George, assignor.)					
162, 055	Goss, George D., Boston, Mass. Mechanism for supporting leg-rests for chairs	Aug. 24, 1875	897	279	8	351
171, 373	Goss, Henry, assignor of one-half interest to R. H. Frisbee, Union City, Pa. Carpet-stretcher	Oct. 11, 1875	316	103	8	617
161, 222	Goss, Nathaniel S., Neosho Falls, Kans. Cartridge-holder	Mar. 2, 1875	146	51	7	369
158, 934	Same	Apr. 13, 1875	415	139	7	637
166, 984	Gosshorn, William, Waterloo, Pa. Balancing millstones	Dec. 21, 1875	700	231	8	1059
168, 984	Gouch, Lyman A., Yonkers, N. Y. Sewer	Mar. 23, 1875	910	298	7	499
168, 984	Goucher, James, Stroudsburg, Pa. Machine for making toy confectionery	Jan. 19, 1875	562	186	7	116
168, 984	Gouge, Henry A., New York, N. Y. Ventilator-cap	Aug. 24, 1875	786	243	8	336
168, 984	Gould, Amos, and Walter M. Hayden, Rochester, N. Y. Lubricator	Oct. 19, 1875	639	211	8	671
6, 272	Gould, Charles B. (See Weeks, George H., assignor.)					
165, 666	Gould, Charles H., et al. (See Morrison, Josiah H., assignor.)					
160, 896	Gould, Ezra. (See Skinner, Daniel M., assignor.)					
170, 079	Gould, Henry W., Cleveland, Ohio. Repairing pavements	Feb. 2, 1875	245	79	7	218
160, 587	Gould, John A., Sturbridge, Mass. Yarn-beam	July 20, 1875	535	163	8	106
168, 479	Gould, John H., Hudson, N. Y. Water-closet	Mar. 16, 1875	604	197	7	449
8, 306	Gould, John H., jr., assignor to John H. Gould, Philadelphia, Pa. Sofa-bedstead	Nov. 16, 1875	751	238	8	848
161, 949	Gould, Levi A., Santa Clara, Cal. Fruit-drier	Mar. 9, 1875	308	104	7	402
171, 374	Gould, William, Minneapolis, Minn. Furniture-caster	Oct. 5, 1875	143	48	8	585
166, 768	Gould, William B., Montrose, N. J. Stair-cover	May 4, 1875	.....	.....	7	742
162, 229	Gould, William C., New York, N. Y. Nut-lock	Aug. 13, 1875	327	110	7	626
170, 080	Gould, William R., Montrose, N. J. Corner-clamp for trunks	Dec. 21, 1875	700	231	8	1059
168, 634	Goulding, John, Worcester, Mass. Steam-generator	Aug. 17, 1875	571	175	8	297
159, 090	Goulet, Felix, Island Pond, Vt. Gage-lathe for turning wood	Apr. 20, 1875	593	194	7	667
158, 484	Gourley, Thomas H., and William R. Lovelace, Talbot, Tenn. Wagon-brake	Nov. 16, 1875	752	238	8	848
158, 485	Gove, Andrew J. (See Garland & Gove.)					
160, 588	Gove, Edward, et al. (See Mayo, Charles H., assignor.)					
164, 443	Gove, George N., Fond du Lac, Wis. Saw-set	Dec. 21, 1875	701	231	8	1059
166, 862	Gover, John W. (See Hutchinson & Gover.)					
166, 863	Gowan, Emilius D. (See Heale & Gowan.)					
166, 863	Gowing, George, San Francisco, Cal. Machine for filling sewing-machine bobbins	Oct. 11, 1875	316	103	8	617
166, 863	Grabham, Angeline P., Mineral Point, Wis. Quilting-frame clamp	Jan. 26, 1875	728	241	7	146
166, 863	Gracey, Robert, assignor of two-thirds interest to Charles E. Marchand and Thomas R. Moran, Alliance, Ohio. Die for heading bolts	Jan. 5, 1875	117	40	7	25
166, 863	Same	Jan. 5, 1875	119	40	7	26
166, 863	Graf, August and Wilhelm, Burnett Junction, Wis. Windmill	Mar. 9, 1875	309	105	7	402
166, 863	Graf, Leopold, Newark, N. J. Heel-polishing machine	June 15, 1875	586	191	7	1029
166, 863	Graf, Wilhelm. (See Graf, August and Wilhelm.)					
166, 863	Graf, Wilhelm E., New York, assignor of one-half interest to Samuel W. Canfield, Piermont, N. Y. Apparatus for the manufacture of salicylic acid	Aug. 17, 1875	656	203	8	309
166, 863	Same	Aug. 17, 1875	656	203	8	309
166, 863	Graff & Co., William. (See McNair, William L., assignor.)					
166, 863	Graff, Jacob A. (See Burger & Graff.)					
166, 863	Grafton, E. W., et al. (See Wilcox, Harlow M., assignor.)					
166, 863	Grafton, William, Clinton, Tex. Ant-destroying apparatus	July 27, 1875	955	294	8	176
166, 863	Grab, Emil, Toledo, Ohio. Permutation-lock	May 25, 1875	990	314	7	907
166, 863	Graham & Haines. (See Howes, Thomas C., assignor.)					
166, 863	Graham, Alexander, Mumford, N. Y. Bolt-trimmer	July 13, 1875	315	93	8	58
166, 863	Graham, Ezra, assignor to self and Enos Hamblin, Manchester, Iowa. Draft-equalizer	Sept. 28, 1875	829	264	8	547
166, 863	Graham, James, Detroit, Mich. Car-coupling	Feb. 2, 1875	151	51	7	205
166, 863	Graham, James S., Rochester, N. Y. Wood-planing machine	June 29, 1875	1103	356	7	1113
166, 863	Graham, John, assignor to George R. Kirk, Philadelphia, Pa. Oil-cup	Aug. 31, 1875	1125	353	8	391
166, 863	Graham, Joseph. (See Stratton, Daniel, assignor.)					
166, 863	Graham, M., et al. (See Payne, Brigham, assignor.)					
166, 863	Graham, William A., Carlisle, Pa., assignor to William H. Philip, trustee. Brick-machine	Dec. 14, 1875	439	145	8	1016
166, 863	Same	Jan. 5, 1875	121	41	7	26
166, 863	Graham, Williamson, Rochester, Pa. Starch-strainer					
166, 863	Grahl, Carl B. (See Epeneter & Grahl.)					
166, 863	Grain Binder Company. (See Travis, Charles L., assignor.)					
166, 863	Gram, Ernst W., and John Nelson, Jonestown, Miss. Stove	Feb. 16, 1875	653	216	7	287
166, 863	Grander, William, et al. (See Wemyss, Alexander, assignor.)					
166, 863	Granger, Dennis W. (See Scott & Granger.)					
166, 863	Granger, Elihu J. (See Annin & Nutt, assignors.)					
166, 863	Granger, Elihu J., Brooklyn, N. Y. Barrel-stave adjuster	Apr. 20, 1875	595	195	7	667
166, 863	Same	May 4, 1875	161	52	7	768
166, 863	Same	July 6, 1875	14	5	8	11

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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169, 635	Granger, Elihu J., Brooklyn, N. Y. Stave-jointing machine	Nov. 9, 1875	315	{ 100 101	{ 8	784
162, 230	Granger, Elihu J., Brooklyn, and Heman S. Smith, Southfield, N. Y. Barrel-head ad- juster	Apr. 20, 1875	594	195	7	667
169, 259	Granger, Harry W., Detroit, Mich. Furnace-grate	Oct. 26, 1875	914	296	8	716
161, 608	Grannis, Charles W., Gowanda, N. Y. Milk-cooler and cheese-vat	Apr. 6, 1875	17	7	7	571
	Grannis, Joseph A. (See Knowles, Wilson W., assignor.)					
	Grant, Charles C., administrator. (See Grant, Frederick T.)					
	Grant, Frank, et al. (See Hartwell, Charles S., assignor.)					
	Grant, Frederick T., deceased, by Charles C. Grant, administrator, Augusta, Me. Sliver- machine	Mar. 19, 1875			7	466
164, 547	Grant, George H., Richmond, Ind. Black-board eraser	June 15, 1875	673	218	7	1040
160, 182	Grant, John J., assignor to self and Solon L. Wiley. Greenfield, Mass. Steam-valve	Feb. 23, 1875	902	297	7	329
167, 165	Grant, John J., assignor to Pratt & Whitney Company, Hartford, Conn. Die-stock	Aug. 31, 1875	985	306	8	370
170, 949	Same.....Screw-cutting-die holder	Dec. 14, 1875	279	94	8	995
169, 164	Grant, William P., Magnolia, Ark. Horse-power	Oct. 26, 1875	830	269	8	705
161, 950	Granville, Robert J., Astoria, Oreg. Saw-set	Aug. 13, 1875	328	110	7	626
162, 056	Grasser, Charles, assignor to American Art Foundry, Somerville, Mass. Mode of mak- ing molds for castings	Apr. 13, 1875	416		7	638
165, 154	Grasser, Charles, and Jacob Stepp, assignors, by mesne assignments, to American Art } Foundry, Somerville, Mass. Apparatus for casting metals	July 6, 1875	15	5, 6	8	11
167, 448	Grassler, William F., Muncy, Pa. Locomotive-boiler furnace	Sept. 7, 1875	61	19	8	415
160, 421	Gratz, H. Howard, Lexington, Ky. Lawn-settee	Mar. 2, 1875	146	51	7	369
168, 151	Grael, Edwin S., Dayton, Ohio. Door-check	Sept. 28, 1875	747	236	8	535
165, 562	Gravelius, Christian, Brooklyn, N. Y. Billiard-cue-tip fastener	July 13, 1875	422	127	8	75
162, 814	Graves, Dwight, and Charles O. Howes, North Amherst, Mass. Saw-guard	May 4, 1875	72	23	7	756
	Graves, E. Emmons. (See Talpey, Joseph A., assignor.)					
165, 563	Graves, Erastus G., Rome, N. Y. Snow-plow	July 13, 1875	423	128	8	75
169, 537	Graves, Frederick D., South Boston, Mass. Rowlock	Nov. 2, 1875	191	66	8	761
	Graves, James T. (See Ashworth, Harvey T., assignor.)					
164, 828	Graves, John L., Springfield, Mass. Fishing-rod	June 22, 1875	940	304	7	1084
	Graves, John A. S. (See Howard, Elijah L., assignor.)					
	Graves, R. C., et al. (See Graves, Robert C., assignor.)					
6, 353	Graves, Robert C., Cambridge, Ohio, assignor to William H. Hobbs and R. C. Graves. Grate-bar	Mar. 30, 1875	1281	411	7	554
	Gray, A. (See Gray, Adam, assignor.)					
161, 504	Gray, Adam, Cincinnati, assignor to A. Gray, College Hill, Ohio. Chemical fire-extin- guisher	Mar. 30, 1875	1202	386	7	544
166, 456	Gray, Albert W., assignor to self and Leonidas and Albert Y. Gray, Middletown, Vt. Grain-separator	Aug. 10, 1875	279	83	8	246
	Gray, Albert Y., et al. (See Gray, Albert W., assignor.)					
	Gray, Allen F. (See Gray, Solomon S., assignor.)					
160, 669	Gray, Allen F., assignor to self and Solomon S. Gray, Boston, Mass. Vapor-burner	Mar. 9, 1875	379	128	7	412
169, 435	Gray, Andrew G., Saint John, Canada. Mowing-machine	Nov. 2, 1875	105	33	8	749
166, 357	Gray, Carroll E., Saint Louis, Mo. Fire-plug	Aug. 3, 1875	155	48	8	221
170, 548	Gray, Charles, Greene, N. Y. Wagon-jack	Nov. 30, 1875	1218	383	8	928
6, 825	Gray, Elisha, Chicago, Ill. Electro-magnetic enunciator	Dec. 28, 1875	987	319	8	1106
162, 057	Same.....Electric annunciator	Apr. 13, 1875	416	139	7	638
165, 728	Same.....Transmitter for electro-harmonic telegraph	July 20, 1875	588	180	8	114
166, 094	Same.....Receiver for electro-harmonic telegraphs	July 27, 1875	956	294	8	176
166, 095	Same.....Electric telegraph for transmitting musical tones	July 27, 1875	957	{ 294 295	{ 8	176
168, 249	Same.....Printing-telegraph	Sept. 28, 1875	830	{ 265 266	{ 8	547
166, 096	Gray, Elisha, Chicago, Ill., assignor of one-half interest to Samuel S. White, Philadel- phia, Pa. Electric telegraph for transmitting musical tones	July 27, 1875	958	295	8	177
	Gray, Forest W. (See Gray, Watson S., and Forest W.)					
160, 516	Gray, Frank M., Norwood, Ill. Garden-sprinkler	Mar. 9, 1875	248	85	7	393
165, 564	Gray, George L., and Comegys C. Lusby, Philadelphia, Pa. Air-carbureter	July 13, 1875	424	128	8	75
159, 817	Gray, Harriet, Marquette, Mich. Tea-kettle	Feb. 16, 1875	560	186	7	274
158, 701	Gray, Henry H., Middleville, Minn. Ditching-machine	Jan. 12, 1875	325	110	7	70
169, 436	Gray, Henry M., San Francisco, Cal. Metallic burial-case	Nov. 2, 1875	106	33	8	749
	Gray, Henry W., et al. (See Slater, Sarah, assignor.)					
	Gray, James H. (See Carver, Thomas F., assignor.)					
166, 358	Gray, James R., Chesterville, Miss. Horse-power	Aug. 3, 1875	156	48	8	222
6, 396	Gray, John D., Cincinnati, Ohio. Stand oil-can	Apr. 20, 1875	825	266	7	696
159, 508	Gray, John J., assignor of one-half interest to George S. Norris, Baltimore, Md. Nut- lock	Feb. 9, 1875	272	88	7	229
	Gray, Leonidas, et al. (See Gray, Albert W., assignor.)					
166, 202	Gray, Martin, Mentor, Ohio. Derrick	Aug. 3, 1875	18	6	8	201
163, 481	Gray, Peter, Cambridge, Mass. Water-cooler	May 18, 1875	725	231	7	865
	Gray, Solomon S. (See Gray, Allen F., assignor.)					
6, 691	Gray, Solomon S., Boston, Mass., assignor, by mesne assignments, to Union Paper Collar Company, New York, N. Y. Paper collar	Oct. 11, 1875	484	157	8	641
160, 670	Gray, Solomon S., assignor to self and Allen F. Gray, Boston, Mass. Vapor-burner	Mar. 9, 1875	379	128	7	412
161, 336	Same.....same	Mar. 30, 1875	1037	337	7	523
163, 065	Gray, Walter S., Keokuk, Iowa. Machine for wiring blind slats and rods	May 11, 1875	326	{ 105 106	{ 7	977
163, 373	Gray, Watson S., and Forest W., Philadelphia, Pa. Fire and water proof composition	May 18, 1875	626		7	852
169, 351	Gray, William M., Brooklyn, N. Y. Door-spring attachment	Nov. 2, 1875	26	8	8	738
	Gray, William S. (See Otis, Newton S., assignor.)					
160, 422	Grayson, William, Saint Louis, Mo. Refrigerator	Mar. 2, 1875	147	51, 52	7	369
165, 324	Greacen, John jr., New York, N. Y. Rubber hose	July 6, 1875	166	50	8	31
161, 779	Greacen, Stephen B., Newark, N. J. Valve for compound engines	Apr. 6, 1875	161	56	7	592
	Greanelle, Emma J., et al. (See Greanelle, Walling D., assignor.)					
169, 538	Greanelle, Walling D., assignor to James D. Keegan, jr., and Emma J. Greanelle, New York, N. Y. Hydrant	Nov. 2, 1875	192	66	8	761
	Greason, James A., et al. (See Higgins, Sylvester W., assignor.)					
	Great American Fire-Extinguisher Company. (See Hughes, Alexander E., assignor.)					
161, 116	Grebner, Maximillion, New Orleans, La. Tilting platform for sewing-machine tables	Mar. 23, 1875	815	267	7	486
166, 522	Greely, Lewis A., Elmira, Ohio. Saw-setting device	Aug. 10, 1875	332	101	8	254
176, 669	Green, Charles, Rochester, N. Y. Breech-loading fire-arm	Dec. 7, 1875	15	5	8	953
	Green, Elijah S. (See Douglas & Green.)					
169, 803	Green, Francis D., Williamsport, Pa. Panel-raising machine	Nov. 9, 1875	488	{ 153 154	{ 8	806

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166, 272	Green, Francis H., Eau Claire, Wis. Wheel for vehicles.....	Aug. 3, 1875	79	25	8	210
8, 072	Green, Frederick W., Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet..... (Design)	Feb. 23, 1875			7	302
171, 119	Green, George F., Kalamazoo, Mich., assignor to Samuel S. White, Philadelphia, Pa. Electro-magnetic dental plugger.....	Dec. 14, 1875	441	146	8	1017
171, 120	Same..... same.....	Dec. 14, 1875	443	146	8	1017
171, 121	Same..... same.....	Dec. 14, 1875	444	146	8	1017
171, 122	Same..... Electro-magnetic fan.....	Dec. 14, 1875	446	146	8	1017
171, 123	Same..... Electro-magnetic dental plugger.....	Dec. 14, 1875	447	147	8	1017
159, 028	Green, George F., Kalamazoo, Mich., and Samuel S. White, Philadelphia, Pa. Electro-magnetic dental tool.....	Jan. 26, 1875	676	221	7	138
170, 253	Green, George W., assignor of one-third interest to Oliver S. Causey, High Point, N. C. Clothes-drier.....	Nov. 23, 1875	935	291	8	880
169, 352	Green, Henry, Preston, and John Barrow, Clayton, Great Britain. Apparatus for lighting and extinguishing gas.....	Nov. 2, 1875	27	8, 9	8	739
162, 815	Green, Henry C., assignor of one-half interest to John H. Gettman, Oshkosh, Wis. Ironing-board.....	May 14, 1875	73	23	7	756
170, 549	Green, Herman D., assignor to Freeman, Valentine & Green, Ithaca, N. Y. Cultivator.....	Nov. 30, 1875	1218	383	8	928
	Green, Horace A. (See Eichholz, John H., assignor.)					
	Green, Joseph. (See Stancliffe & Green.)					
	Green, Matthew. (See Mackey & Green.)					
	Green, Oseola C. (See Rowland, Charles, assignor.)					
158, 373	Green, Stephen, assignor to Barna. T. Stowell, Lebanon, Mo. Hoe.....	Jan. 5, 1875	19	7	7	11
160, 822	Green, William, Hyde, England. Car-coupling.....	Mar. 16, 1875	545	177	7	441
	Green, Willis D. (See Wallace, William S., assignor.)					
167, 238	Greenalch, Richard, Greenbush, assignor to self and William Buchanan, Yonkers, N. Y. Packing for stuffing-boxes.....	Aug. 31, 1875	1046	325	8	379
	Greene, Charles T. (See Van Arnam, James W., assignor.)					
160, 053	Greene, Edward, New York, N. Y. Manufacture of gunpowder.....	Feb. 23, 1875	796		7	313
165, 817	Greene, Henry, Philadelphia, Pa. Time-check.....	July 20, 1875	674	207	8	126
8, 760	Greene, James A., North Kingston, R. I. Boot and shoe webbing..... (Design)	Oct. 26, 1875			8	689
167, 449	Greene, James B., Elliott, Cal. Harrow.....	Sept. 7, 1875	61	19	8	415
	Greene, Jane M., executrix. (See Greene & Pawling)..... (Reissue.)					
160, 423	Greene, John, London, England. Making matrices for casting type.....	Mar. 2, 1875	148	52	7	370
169, 100	Greene, John A., Brooklyn, N. Y. Rubber tire for vehicle-wheels.....	Oct. 26, 1875	772	251	8	696
166, 271	Greene, Phillip B., Centerville, Iowa. Motive-power.....	Aug. 3, 1875	79	24	8	210
6, 587	Greene, William K., deceased, by Jane M. Greene, executrix, Amsterdam, and William M. Pawling, Hagaman's Mills, N. Y. Machine for drying tubular knit fabrics..... (Reissue)	Aug. 10, 1875	474	{ 145 } { 146 }	{ 8 }	274
6, 588	Same..... same..... (Reissue)	Aug. 10, 1875	476	146	8	274
	Greene, W. S., et al. (See Clem, James M., assignor.)					
168, 328	Greener, William W., Birmingham, England. Breech-loading fire-arm.....	Oct. 5, 1875	12	4	8	566
163, 184	Greenleaf, Joseph H., New Haven, Conn. Needle-loom.....	May 11, 1875	433	141	7	811
170, 550	Greenleaf, Miller T., and Frederick Kruse, Quincy, Ill. Millstone tram and staff.....	Nov. 30, 1875	1219	383	8	928
161, 877	Greenough, John J., Syracuse, N. Y. Cloth-measuring apparatus.....	Apr. 13, 1875	266	89	7	618
	Greenwood, Arthur. (See Keats, Greenwood & Keats.)					
	Greenwood, John. (See Naylor & Greenwood.)					
159, 260	Greenwood, John, Rochester, N. Y. Journal-box for shaft-hangers.....	Feb. 2, 1875	19	6	7	187
167, 166	Same..... Machine for chamfering and crozing barrels.....	Aug. 31, 1875	985	306	8	371
167, 834	Greenwood, Mark T., deceased, by Mary A. Greenwood, administratrix, Fitchburgh, Mass. Centering device.....	Sept. 21, 1875	433	138	8	483
	Greenwood, Mary A., administratrix. (See Greenwood, Mark T.)					
	Greenwood Pottery Company. (See Coxon, Jonathan, assignor)..... (Design)					
162, 471	Greenwood, Samuel, and James Templeton, Lowell, Mass. Stop-motion for looms.....	Apr. 27, 1875	845	272	7	707
167, 661	Greenwood, Thomas J., Warren, Ill. Crimping-machine.....	Sept. 14, 1875	261	81	8	450
167, 096	Greenwood, William M., and John N. Clarke, Cincinnati, Ohio. Roll for making horse-shoe-blanks.....	Aug. 24, 1875	898	280	8	351
	Greer, Benjamin A. F. (See Strong, George S., assignor.)					
165, 996	Greet, William, Mooresville, Ala. Hook bale-tie.....	July 27, 1875	864	266	8	163
169, 690	Gregersen, Peter, assignor to self and Phillip Miller, Wauzeka, Wis. Feathering paddle-wheel.....	Nov. 9, 1875	374	117	8	791
162, 058	Gregg, Isaac, jr., Philadelphia, Pa. Brick-machine.....	Apr. 13, 1875	417	139	7	638
163, 926	Gregg, Joseph O., Elkhart, Ind. Wood-grinder for paper-pulp.....	June 1, 1875	75	25	7	941
158, 487	Gregg, Marshall, California, assignor of one-half interest to William A. Lyons, Chamois, Mo. Corn-planter.....	Jan. 5, 1875	122	41	7	26
165, 092	Gregg, Rollin R., Buffalo, N. Y. Pneumatic railway.....	June 29, 1875	1191	384	7	1125
159, 091	Gregg, William L., Chicago, Ill. Brick-kiln.....	Jan. 26, 1875	729	241	7	146
164, 729	Same..... Hollow grate-bar.....	June 22, 1875	850	276	7	1073
168, 564	Same..... Brick-machine.....	Oct. 11, 1875	248	81, 82	8	607
168, 391	Gregory, Alfred, Newark, N. J. Burglar-alarm.....	Oct. 5, 1875	64	23	8	574
	Gregory, Erastus H., et al. (See Beckley, Anson J., assignor.)					
	Gregory, Walter, et al. (See Beckley, Anson J., assignor.)					
160, 589	Greiner, Carl, New York, N. Y. Faucet for drawing off effervescent liquids.....	Mar. 9, 1875	311	105	7	402
165, 505	Greiner, Charles, New York, N. Y. Apparatus for drawing effervescent liquids.....	July 13, 1875	426	129	8	76
170, 551	Same..... Soda-water fountain.....	Nov. 30, 1875	1220	383	8	928
169, 691	Gresbeck, Friedrich, and Eugen Mullendorf, Detroit, Mich. Register.....	Nov. 9, 1875	374	117	8	791
	Gribbin, John, et al. (See Shawk, George W., assignor)..... (Reissue.)					
160, 092	Gribbin, Watson R., and Angus McMillan, Portland, Me. Automatic clock-operated horse-crib.....	Feb. 23, 1875	829	272	7	318
166, 274	Gribble, John B., Grass Valley, Cal. Candlestick.....	Aug. 3, 1875	81	25	8	210
	Gridley, Dwight. (See Bruen & Gridley.)					
159, 261	Griest, John M., Chicago, Ill. Ruffling and gathering attachment for sewing-machines.....	Feb. 2, 1875	19	6	7	187
	Griffin, George B. (See Wood, Thomas T., assignor.)					
171, 278	Griffin, Alvah J., Lowell, Mass. Hydrocarbon burner and gas generator.....	Dec. 21, 1875	619	202	8	1048
161, 223	Griffin, Archibald D., Hopewell, Pa. Car-wheel for tram-roads.....	Mar. 23, 1875	911	298	7	499
	Griffin, B. W. (See Wellman, Alfred C., assignor.)					
170, 670	Griffin, Joseph A., Syracuse, N. Y. Compound as a substitute for eggs.....	Dec. 7, 1875	16		8	953
170, 254	Griffin, Patrick, Cork, Ireland. Apparatus for the manufacture of spirits..... (Reissue)	Nov. 23, 1875	935	291	8	880
	Griffing, Abner A. (See Blake, Edward S., assignor)					
161, 679	Griffing, Horace, New Haven, Conn. Screw-cutting-die plate.....	Apr. 6, 1875	78	28	7	580
	Griffith, D., et al. (See Minor, John O., assignor.)					
168, 635	Griffith, Frederick W., and George P. Byrne, New York, N. Y. Printing-press.....	Oct. 11, 1875	318	{ 103 } { 104 }	{ 8 }	617
162, 644	Griffith, George V., Huntington, Ind. Machine for making hoops.....	Apr. 27, 1875	991	318	7	725
164, 294	Same..... Machine for cutting hoops.....	June 8, 1875	431	143	7	999

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161, 406	Griffith, Merlin C., Casadaga, N. Y. Clothes-drier.....	Mar. 30, 1875	1106	358	7	531
162, 914	Griffith, Mortimer A., Dayton, Ohio. Screw-cutting die.....	May 4, 1875	161	53	7	768
167, 333	Griffith, Samuel, and John S. Patterson, Cincinnati, Ohio. Car-bumper.....	Aug. 31, 1875	1126	354	8	391
168, 480	Griffith, Shipman W., Union City, Pa. Railway-rail joint.....	Oct. 5, 1875	144	48	8	586
168, 738	Griffith, Thomas H., Fayette City, Pa. Chimney-cowl.....	Oct. 11, 1875	409	133	8	630
	Griffith, Uriel. (See Noel, Chesley T., assignor.)					
	Griffiths, Butler, et al. (See Griffiths, John W., assignor.)					
	Griffiths, Edgar B., et al. (See Griffiths, John W., assignor.)					
	Griffiths, George T., et al. (See Griffiths, John W., assignor.)					
	Griffiths, Herbert M., et al. (See Griffiths, John W., assignor.)					
171, 376	Griffiths, John W., Brooklyn, N. Y., assignor to Herbert M., Edgar B., George F., } Mary S., and Butler Griffiths. Machine for bending wood.....	Dec. 21, 1875	701	{ 231 232 }	8	1059
	Griffiths, Mary S., et al. (See Griffiths, John W., assignor.)					
164, 730	Griggs, Augustus, La Fayette, Tenn. Plow.....	June 52, 1875	851	276	7	1072
166, 097	Griggs, Henry C., Waterbury, Conn. Button for wearing apparel.....	July 27, 1875	960	295	8	177
159, 408	Grillet, Alexander, Philadelphia, Pa. Bedstead-fastening.....	Feb. 2, 1875	152	51	7	205
164, 444	Grilley, Charles T., Boston, Mass. Leather washer.....	June 15, 1875	587	191	7	1029
164, 445	Same..... Mechanism for forming leather washer.....	June 15, 1875	588	191	7	1029
164, 446	Same..... Leather washer.....	June 15, 1875	590	192	7	1029
164, 447	Same..... Shoe-tips.....	June 15, 1875	591	192	7	1029
166, 361	Same..... Shoe tip or protector.....	Aug. 3, 1875	157	49	8	222
166, 362	Same..... same.....	Aug. 3, 1875	159	49	8	222
166, 769	Same..... same.....	Aug. 17, 1875	572	176	8	297
159, 818	Grim, David, Pittsburgh, Pa. Wheel for vehicles.....	Feb. 16, 1875	561	186	7	274
	Grimes, Francis M. (See Porter & Grimes.)					
8, 656	Grimm, Clouse D., Glenwood, N. J. Pipe..... (Design).....	Sept. 21, 1875			8	475
171, 562	Grimm, John, Saint Louis, Mo. Straw-cutter.....	Dec. 28, 1875	895	292	8	1094
171, 476	Grimm, Richard, assignor to self and Henry Meyer, New York, N. Y. Paper-box machine.....	Dec. 28, 1875	810	267	8	1082
	Grimshaw, Ellwood. (See Carpenter & Grimshaw.)					
163, 768	Grimshaw, Ellwood, and Warren F. Osgood, Minneapolis, Minn. Vehicle-pole tip.....	May 25, 1875	991	314	7	907
160, 897	Grimshaw, William D., Rocky Hill, N. J. Rubber-coated bag.....	Mar. 16, 1875	604	197	7	449
160, 898	Same..... Water-proof compound.....	Mar. 16, 1875	605		7	449
163, 650	Grimste, John, Milton, Cal. Shoe for wagon-brakes.....	May 25, 1875	895	283	7	895
169, 353	Grinnell, Frederick, Providence, R. I. Method of drilling holes in pipe for sprinkling water.....	Nov. 2, 1875	31	9	8	739
169, 354	Same..... Pipe-drilling machine.....	Nov. 2, 1875	32	9, 10	8	739
169, 355	Same..... Sprinkling-pipe.....	Nov. 2, 1875	34	10	8	739
161, 506	Gristed, William, and John A. Darling, Washington, D. C. File-wrapper.....	Mar. 30, 1875	1205	387	7	544
159, 029	Grinter, Thomas W., assignor to self and Joseph F. Jewett, Cincinnati, Ohio. Paper bag.....	Jan. 26, 1875	677	221	7	138
	Same..... Paper-bag machine.....	Jan. 26, 1875	678	{ 221 222 223 }	7	139
164, 548	Same..... same.....	June 15, 1875	674	{ 218 219 }	7	1040
164, 549	Same..... Cloth bag.....	June 15, 1875	677	220	7	1041
164, 550	Same..... same.....	June 15, 1875	678	220	7	1041
171, 011	Griscom, Isaac W., Woodbury, N. J. Potato-bug destroyer.....	Dec. 14, 1875	339	113	8	1003
	Griscom, William M., et al. (See Rippien, Adolph, assignor.)					
168, 985	Griscom, William M., assignor to self and Nathan and William Harbster, Reading, Pa. Apple-paring machine.....	Oct. 19, 1875	640	212	8	671
168, 986	Griscom, William M., Reading, Pa. Reversible latch.....	Oct. 19, 1875	640	212	8	671
158, 412	Griswold, Alfred D., assignor to Myrtilla Griswold, New York, N. Y. Feather dusting- brush.....	Jan. 5, 1875	54	19	7	17
171, 012	Griswold, Cathrine A., New York, N. Y. Abdominal corset.....	Dec. 14, 1875	340	113	8	1003
	Griswold, Frank W. (See Pierce & Griswold.)					
159, 318	Griswold, George W., Pottersville, N. Y. Saw-gummer.....	Feb. 2, 1875	76	25	7	194
165, 093	Griswold, Govion G., New York, N. Y. Umbrella.....	June 29, 1875	1193	384	7	1125
167, 167	Griswold, Lev, assignor to David Hays and Nathan P. Wells, Johnstown, N. Y. Alarm- lock.....	Aug. 31, 1875	987	307	8	371
167, 168	Same..... Key for locks.....	Aug. 31, 1875	988	307	8	371
	Griswold, Matthew. (See Selden & Griswold.)					
	Griswold, Myrtilla. (See Griswold, Alfred D., assignor.)					
163, 311	Griswold, Ogden, Hartford, Conn. Furniture-duster.....	May 18, 1875	571	183	7	845
167, 893	Groat, Elias, Napa, Cal. Churn.....	Sept. 21, 1875	486	153	8	490
	Groat, Peter B. (See Draper, Henry V. P., assignor.)					
159, 092	Groff, Augustus M. L., and John A. Marvel, Wilmington, Del. Machinery for finishing } leather.....	Jan. 26, 1875	731	{ 241 242 }	7	147
	Gronberg, Otto. (See Bryce & Gronberg.)					
165, 325	Gronner, Ole T., Baltimore, Md. Sawing-machine.....	July 6, 1875	167	51	8	31
168, 152	Groom, Thrustans, Guelph, Canada. Cooking-range.....	Sept. 28, 1875	748	236	8	535
159, 176	Groover, Joseph M., assignor of one-fourth interest to James A. Brooks, Oxford, Mich. } Grain-binder.....	Jan. 26, 1875	804	{ 263 264 }	7	157
168, 392	Grose, Anda D., Tilton, Ky. Churn.....	Oct. 5, 1875	66	23	8	574
170, 846	Groshon, John A., assignor to self and John D. Buckhout, New York, N. Y. Fire- escape ladder.....	Dec. 7, 1875	170	58	8	973
164, 167	Gross, Henry, Cincinnati, Ohio. Permutation-lock for safe-doors.....	June 8, 1875	313	106	7	984
163, 185	Gross, William L., and William W. Kelchner, Springfield, Ill.; said Gross assignor to said Kelchner. Combined blank and envelope.....	May 11, 1875	434	141	7	811
171, 124	Grosskopf, Henry H., Philadelphia, Pa. Combined shirt and drawers.....	Dec. 14, 1875	448	147	8	1017
	Grottenthaler, Vincent. (See Schneider & Uilting, assignors.)					
	Grove, Michael M., et al. (See Kline, Jacob, assignor.)					
	Grove, M. N. (See Kline, Jacob, assignor.)..... (Reissue.)					
	Grove, William A. (See Hart & Grove.)					
8, 787	Grove, William H., Philadelphia, Pa. Show-case..... (Design).....	Nov. 9, 1875			8	777
8, 802	Same..... same..... (Design).....	Nov. 23, 1875			8	862
169, 260	Grover, John W., Westminster, England. Machine for making spring-washers.....	Oct. 26, 1875	915	297	8	716
	Grover, Reuben C. (See Degraw, George H., assignor.)					
162, 378	Grover, Theodore L., Brooklyn, assignor to Bertrand Clover, New York, N. Y. Device for forging file-blanks.....	Apr. 20, 1875	736	239	7	684
	Groves, Thomas, administrator. (See Sutherland, James.)					
169, 901	Groves, William C., Liberty, Wis. Water-wheel.....	Nov. 16, 1875	593	184	8	827
171, 013	Grow, William H. and Crawford M., Sloan Rock, Kans. Shears for cutting hogs' noses.....	Dec. 14, 1875	340	113	8	1003

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 761	Grubb, George W., East Coventry, Pa. Washing-machine.....	Sept. 14, 1875	355	112	8	463
	Grubb, Jonathan W., et al. (See La Rue, Silas H., assignor.)					
160, 093	Grube, Martin, Lancaster, Pa. Apparatus for flavoring spirits.....	Feb. 23, 1875	830	273	7	318
161, 026	Grummon, Robert S., Newark, N. J. Book-rest.....	Mar. 23, 1875	727	239	7	475
159, 319	Grunewald, George, New York, N. Y. Step-ladder.....	Feb. 2, 1875	77	26	7	194
	Gruver Automatic Car Coupling Company. (See Stamour, John B., assignor.)					
169, 101	Gruwe, Emil, Hoboken, N. J., assignor to Schweizer & Gruwe, New York, N. Y. Me- tallic frame for buildings.....	Oct. 26, 1875	773	251	8	696
165, 925	Grzybowski, Julian, Detroit, Mich. Pump.....	July 27, 1875	796	244	8	154
6, 273	Guard, Chauncey H., assignor of one-half interest to John W. Ford, Tippecanoe City, Ohio. Hub for vehicle-wheels..... (Reissue)	Feb. 2, 1875	245	80	7	218
159, 262	Guard, Chauncey H., Tippecanoe, Ohio. Hub for vehicle-wheels.....	Feb. 2, 1875	20	7	7	187
6, 411	Gue, Albert F., Chicago, Ill., assignor to Luman Jenison, Jenisonville, Mich., James M. Kelley and George E. Plumbe, Austin, Ill., and Samuel W. Cozzens and George F. Field, Boston, Mass. Car-brake..... (Reissue)	May 4, 1875	245	79	7	779
170, 552	Guelicher, Charles, Newark, N. J. Device for preventing horses from running.....	Nov. 30, 1875	1220	384	8	928
169, 902	Guenther, Charles W., Reading, Pa. Wash-boiler.....	Nov. 16, 1875	593	184	8	827
161, 680	Guest, John H., Brooklyn, N. Y. Regulator for electrical water-raising apparatus.....	Apr. 6, 1875	79	28	7	580
159, 572	Guest, Thomas L., Pottstown, Pa. Spring-equalizer.....	Feb. 9, 1875	323	106	7	236
158, 839	Guicheteau, Ferdinand, and Alexandre Perin, New York, N. Y. Temporary binder.....	Jan. 19, 1875	471	158	7	105
161, 507	Guienot, Louis, Baltimore, Md. Device for fastening bed-rails to their posts.....	Mar. 30, 1875	1205	387	7	544
168, 896	Guild, Frederic, Brockton, Mass. Pegging-jack attachment.....	Oct. 19, 1875	555	182	8	659
163, 482	Guild, William H., Williamsburgh, N. Y. Surface-condenser.....	May 18, 1875	725	231	7	865
163, 374	Guilder, Absalom R., Minneapolis, Minn. Reel for drying and draining hose.....	May 18, 1875	627	200	7	852
169, 183	Guiles, Charles H., Chicago, Ill. Elevator.....	Feb. 23, 1875	903	298	7	329
167, 239	Guilford, Rufus D., Saint Charles, Mich. Raftsmen's boot-calk.....	Aug. 31, 1875	1046	325	8	379
169, 356	Guilfoyle, William, New York, N. Y. Gong for street-cars.....	Nov. 2, 1875	35	10	8	739
8, 237	Guiraud, Etienne, New York, N. Y., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet..... (Design)	Mar. 30, 1875			7	516
8, 238	Same..... (Design)	Mar. 30, 1875			7	516
8, 239	Same..... (Design)	Mar. 30, 1875			7	516
8, 599	Same..... (Design)	Sept. 7, 1875			8	403
8, 600	Same..... (Design)	Sept. 7, 1875			8	403
8, 601	Same..... (Design)	Sept. 7, 1875			8	403
8, 602	Same..... (Design)	Sept. 7, 1875			8	403
8, 603	Same..... (Design)	Sept. 7, 1875			8	403
161, 027	Guise, David P., Williamsport, Pa. Brick-kiln.....	Mar. 23, 1875	728	239	7	475
8, 207	Gulden, Jacob, New York, N. Y. Mustard-bottle..... (Design)	Mar. 16, 1875			7	427
	Gulick, Edwin. (See Mattison, William E., assignor.)					
	Gump, Maria L. (See Gump, William E., assignor.)					
159, 819	Gump, William E., New York, assignor to Maria L. Gump, Garden City, N. Y. Print- ing-press.....	Feb. 16, 1875	562	187	7	274
158, 935	Gunckel, Winfield O., Terre Haute, Ind. Car-coupling.....	Jan. 19, 1875	564	187	7	116
161, 505	Gundelfinger, Daniel, Jefferson City, Mo. Door-check.....	Mar. 30, 1875	1204	386	7	544
	Gunn, Abel H., et al. (See Robertson, William H., assignor.)					
161, 951	Gunn, E. William, New Woodstock, and George D. and Harrison Wells, Erieville, N. Y. Emery grinding-machine.....	Apr. 13, 1875	329	111	7	626
	Gunning, George C. (See Foley, James, assignor.)..... (Reissue)					
162, 059	Gunshenan, Michael, New York, N. Y. Farm-gate.....	Apr. 13, 1875	419	140	7	638
166, 770	Gunter, Richard W., Carrollton, Mo. Middlings-purifier.....	Aug. 17, 1875	573	176	8	297
171, 511	Günther, Edward, New York, N. Y. Machine for turning bungs.....	Dec. 28, 1875	849	{ 277 } { 278 }	{ 8 } { 8 }	{ 1087 } { 1087 }
171, 512	Same..... same.....	Dec. 28, 1875	851	278	8	1087
162, 645	Günther, Gottlob, New York, N. Y. Bird-cage.....	Apr. 27, 1875	993	319	7	725
170, 847	Günther, Gottlob, New York, N. Y. Bird-cage.....	Dec. 7, 1875	171	58	8	973
161, 952	Gurnsey, Daniel, Watertown, N. Y. Milk-cooler.....	Apr. 13, 1875	330	111	7	627
171, 612	Guseman, William D., Morgantown, W. Va. Fire-place heater.....	Dec. 28, 1875	955	{ 309 } { 310 }	{ 8 } { 8 }	{ 1102 } { 1102 }
167, 097	Gustin, Samuel N., Mexico, N. Y. Animal-poke.....	Aug. 24, 1875	899	280	8	351
160, 767	Guthrie, Alfred, Chicago, Ill. Water-meter.....	Mar. 16, 1875	496	161	7	434
171, 014	Guthrie, Warren H., Hudson City, N. J. Key for locks.....	Dec. 14, 1875	341	113	8	1003
170, 081	Gutmann, Simeon, New York, N. Y. Shirt.....	Nov. 16, 1875	753	238	8	848
170, 082	Same..... same.....	Nov. 16, 1875	754	238	8	848
169, 989	Guttridge, David C., Akron, Ohio. Iron fence.....	Nov. 16, 1875	665	208	8	836
163, 483	Guy, Henry M., assignor, by mesne assignments, to Debora C. James, Worcester, Mass. Jack-spool.....	May 18, 1875	726	231	7	866
165, 326	Guzeman, William A., assignor to George S. Tripp and Z. Estelline P. Guzeman, Wash- ington, Iowa. Windmill.....	July 6, 1875	167	51	8	32
	Guzeman, Z. Estelline P., et al. (See Guzeman, William A., assignor.)					
165, 818	Gwathmey, Richard C., Louisville, Ky. Cyclophore.....	July 20, 1875	676	207	8	126
169, 165	Haag, Adam W., Fleetwood, Pa. Water-wheel.....	Oct. 26, 1875	830	269	8	705
165, 566	Haag, George W., assignor to self and Pembroke Churchill, Milton, Pa. Potato-digger.....	July 13, 1875	426	129	8	76
169, 539	Haanel, Eugene, Cobourg, Canada. Safety-match.....	Nov. 2, 1875	193		8	761
162, 060	Haase, John A., Philadelphia, Pa. Safety-step for cars.....	Apr. 13, 1875	420	140	7	638
	Haass, G. Herman. (See Meitzler & Haass.)					
167, 609	Habermehl, John, Allegheny, Pa. Grate.....	Sept. 14, 1875	217	68	8	444
	Hachmeister, Charles. (See Ulrich & Hachmeister.)..... (Reissue)					
	Hacker, John B., et al. (See Wright, Joseph C., assignor.)					
8, 049	Hacker, Joseph C., Brooklyn, N. Y. Pocket-book frame..... (Design)	Feb. 9, 1875			7	223
160, 184	Hackett, Fletcher, and John C. Crounse, Hale's Corners, Wis. Fire-escape for safes.....	Feb. 23, 1875	905	298	7	329
167, 662	Hackley, Charles E., New York, N. Y. Game-counter.....	Sept. 14, 1875	261	81	8	450
158, 840	Haddock, Oscar P., and Frank W. Pierce, Copenhagen, N. Y. Milk-cooler.....	Jan. 19, 1875	471	158	7	105
	Haddock Nail Machine and Nail Company. (See Haddock, Worcester, assignor.) (Re- issue)					
163, 651	Haddock, Worcester, Pittsburgh, Pa. Oscillating valve for steam-engines.....	May 25, 1875	896	284	7	895
164, 369	Same..... Railway-rail joint.....	June 15, 1875	516	170	7	1020
6, 435	Haddock, Worcester, assignor, by mesne assignments, to Haddock Nail Machine and Nail Company, Pittsburgh, Pa. Machine for cutting nails..... (Reissue)	May 18, 1875	808	255	7	875
167, 610	Haddock, Worcester, assignor to self, Henry Gerding, and Thomas Jones, Pittsburgh, Pa. Line-fastener.....	Sept. 14, 1875	218	68	8	444
170, 255	Same..... Spike-machine.....	Nov. 23, 1875	936	{ 291 } { 292 }	{ 8 } { 8 }	{ 880 } { 880 }
168, 250	Haden, Francis S., Chelsea, Great Britain. Coffin.....	Sept. 28, 1875	833		8	547
164, 645	Hadfield, Joseph, New York, N. Y. Valve for water-tanks.....	June 22, 1875	772	253	7	1063

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161, 117	Hadley, Benjamin H. (See Goodyear & Hadley.)					
8, 497	Hadley, Dana G., Bethlehem, N. H. Lock for fire-arms	Mar. 23, 1875	815	267	7	486
164, 830	Haehnel, Frederic, and Henry Norman, New Orleans, La. Cigar-box..... (Design)	July 27, 1875			8	148
165, 997	Haehnel, Jacob. (See Frost, Edward J., assignor.)					
6, 492	Haffa, Philip, Philadelphia, Pa. Iron fence	June 22, 1875	942	304	7	1085
168, 481	Haffter, Sebastian, Highland, Ill. Cistern-cover	July 27, 1875	864	266	8	163
	Hafner, John A., Pittsburgh, Pa. Mill-spindle..... (Reissue)	June 22, 1875	1007	325	7	1092
	Same..... Device for preventing back-lash of machinery	Oct. 5, 1875	145	48	8	586
165, 567	Hagaman, Theodore W. (See Croke, William H., assignor.)					
	Hagelin, Adolphus, et al. (See Waggoner, Samuel T., assignor.)					
	Hagemann, Gustav A., Copenhagen, Denmark. Apparatus for concentrating sulphuric acid	July 13, 1875	427	129	8	76
165, 568	Same..... Method and apparatus for evaporating liquids	July 13, 1875	428	130	8	76
165, 569	Same..... Pneumatic machine	July 13, 1875	430	130	8	76
168, 636	Hagen, Augustus A., New York, N. Y. Tobacco-cutting machine	Oct. 11, 1875	320	104	8	617
	Hagennan, James J. (See Durfee, William F., assignor.)					
169, 692	Hager, Albert D. (See Blood & Hager.)					
162, 379	Hagerty, Andrew N., West Alexander, Pa. Treadle for machinery	Nov. 9, 1875	375	117	8	791
168, 987	Hagerty, James S., Baltimore, Md. Street-car-pole coupling	Apr. 20, 1875	736	239	7	685
159, 545	Same..... Street-lamp	Oct. 19, 1875	641	212	8	671
161, 609	Hagerty, Thomas, New York, N. Y. Combined ice-pick and strainer	Feb. 9, 1875	305	98	7	233
161, 780	Hagerty, Thomas, assignor to John A. Pickersgill, New York, N. Y. Bench-plane	Apr. 6, 1875	18	7	7	571
165, 671	Same..... Pinking-machine	Apr. 6, 1875	162	56	7	592
165, 729	Hagerty, Thomas, assignor to Samuel Rothschild, jr., New York, N. Y. Tool	July 20, 1875	540	165	8	107
166, 523	Same..... Combined ice-pick and can-opener	July 20, 1875	589	181	8	114
164, 551	Hagerty, John, assignor of one-half interest to V. G. Curtis, Corry, Pa. Slate-frame	Aug. 10, 1875	332	101	8	254
	Haguy, Adam and Simon L., Keokuk, Iowa. Holder or fastener for halter-straps	June 15, 1875	678	220	7	1041
	Haguy, Simon L. (See Haguy, Adam and Simon L.)					
	Hague, John, et al. (See Quinn, William T., assignor.)					
	Hague, Will, et al. (See Quinn, William T., assignor.)					
	Hahn, Ignatius. (See Chalfant & Hahn.)					
164, 679	Hahn, Ignatius, Pittsburgh, Pa. Rolling-mill	June 22, 1875	800	262	7	1067
165, 094	Same..... Machine for making hollow beams and tubes	June 29, 1875	1195	{ 384 385 }	{ 7 7 }	{ 1125 1125 }
165, 819	Same..... Rolling-mill	July 20, 1875	678	{ 207 208 }	{ 8 8 }	{ 126 126 }
166, 985	Same..... Crane	Aug. 24, 1875	787	243	8	336
168, 090	Same..... Machine for shearing metals	Sept. 28, 1875	683	216	8	526
168, 393	Haight, David M., Oswego, Ill. Skid for oil-barrels	Oct. 5, 1875	67	24	8	574
164, 084	Haight, Edgar, et al. (See Miller, Charles H., assignor.)					
	Haight, William H., and Thomas S. Gladding, Leavenworth, Kans. Composition for drain-pipes	June 8, 1875	340		7	975
	Hail, Nathan B., et al. (See Kenyon, Martin R., assignor.)					
	Hailey, John. (See Duncan, Edward A., assignor.)					
	Hainer, Hartzell. (See Lemon, Cameron & Hainer.)					
163, 066	Haines, Henry. (See Cleveland, Jerome, assignor.)					
159, 509	Haines, Isaac N., Pomeroy, Pa. Railway-track closer	May 11, 1875	327	106	7	797
	Haines, John W., Cambridge, assignor of one-half interest to Charles S. Chaffee, Somerville, Mass. Door-knob	Feb. 9, 1875	273	88	7	229
170, 553	Haines, Joseph R. (See Gehr, John, assignor.)					
159, 320	Haines, Lewis A., Westminster, Md. Time-lock	Nov. 30, 1875	1221	384	8	928
	Hainsworth, Frederick, assignor of one-half interest to Jonathan Hainsworth, Chicago, Ill. Hollow brick wall	Feb. 2, 1875	77	26	7	194
158, 702	Hainsworth, Jonathan. (See Hainsworth, Frederick, assignor.)					
	Hainsworth, William, assignor to Pittsburgh Steel Casting Company, Pittsburgh, Pa. Shoe and die for stamping-mills	Jan. 12, 1875	326	111	7	70
169, 261	Same..... Manufacture of casting from wrought and cast iron	Oct. 26, 1875	716		8	716
164, 552	Haish, Jacob, De Kalb, Ill. Wire fence	June 15, 1875	679	220	7	1041
167, 240	Same..... Wire-fence barb	Aug. 31, 1875	1047	325	8	379
8, 582	Hake, Philip, Hoboken, N. J. Dancing-programme..... (Design)	Aug. 24, 1875			8	323
161, 224	Hake, Philip. (See Marston, Thomas P., assignor.)					
	Halbert, Henry J., and Francis King, Baltimore, Md. Packing-material	Mar. 23, 1875	912		7	499
169, 437	Hale, Allen. (See Thornton, McDonel & Hale.)					
169, 166	Hale, Alonzo, Eureka, Ill. Washing-machine	Nov. 2, 1875	107	34	8	749
170, 554	Hale, Draton S., Estillville, Va. Fire-dog	Oct. 26, 1875	831	270	8	705
	Hale, Edward, jr., Chicago, assignor, by mesne assignments, to John H. Shay and John E. Putman, Beardstown, Ill. Seat-guard for harvesters	Nov. 30, 1875	1222	384	8	928
160, 185	Hale, Henry A. (See Atwood, Loring, assignor.)					
168, 482	Hale, Henry S., et al. (See Stevens, Asher B., assignor.)					
	Hale, Henry S., Philadelphia, Pa. Bed-bottom	Feb. 23, 1875	906	298	7	329
	Same..... Tilting chair	Oct. 5, 1875	145	48	8	586
160, 768	Hale, H. S., et al. (See Curtis, Harrison W., assignor.)					
160, 517	Hale, Joseph, Somerville, Mass. Scroll-sawing machine	Mar. 16, 1875	497	161	7	434
	Hale, Joseph N., Boston, Mass. Temporary binder	Mar. 9, 1875	249	85	7	393
	Hale, J. W., et al. (See Curtis, Harrison W., assignor.)					
	Hale, J. Warren, et al. (See Stevens, Asher B., assignor.)					
160, 590	Hale Manufacturing Company. (See Hale, William P., assignor.)					
	Hale, Robert, Minneapolis, Minn., and James B. Johnston, Chicago, Ill. Device for bending horseshoe-bars	Mar. 9, 1875	312	105	7	402
167, 894	Hale, Robert and Robert W., Chicago, Ill. Machine for bending and swaging horseshoe-blanks	Sept. 21, 1875	486	154	8	491
	Hale, Robert W. (See Hale, Robert and Robert W.)					
	Hale, Robert W. (See Johnston, James B., assignor.)					
	Hale, Warren, et al. (See Curtis, Harrison W., assignor.)					
	Same..... (See Stevens, Asher B., assignor.)					
168, 153	Hale, William F., Fluvanna, N. Y. Portable lever-power	Sept. 28, 1875	749	236	8	535
162, 061	Hale, William P., Port Huron, Mich. Saw-teeth	Apr. 13, 1875	421	140	7	638
160, 899	Hale, William P., Brockport, N. Y., assignor to Hale Manufacturing Company, Port Huron, Mich. Sawing-machine	Mar. 16, 1875	606	198	7	449
158, 793	Haley, George A., Chicago, Ill. Machine for cutting irregular forms	Jan. 19, 1875	428	143	7	99
	Haley, John J., et al. (See Spencer, Albert H., assignor.)					
	Same..... (See Stewart, Alexander W., assignor.)					
161, 028	Haley, Thomas, Cambridge, Mass. Gas-burner	Mar. 23, 1875	728	240	7	475
	Hall, Albert E. (See Hall, Alexander W. and Albert E.)					

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161, 781	Hall, Alexander W. and Albert E., Adrian, Ohio. Wringer.....	Apr. 6, 1875	163	56	7	592
171, 477	Hall, Asa, assignor to self, John G. Elliott, and Edward D. Hall, Rockford, Ill. Plow.....	Dec. 28, 1875	815	267	8	1082
170, 363	Hall, Benjamin, <i>et al.</i> (See Burnett, Oswald, assignor.)					
	Hall, Charles F., Skaneateles, N. Y. Device for refitting valve-seats.....	Nov. 23, 1875	1026	322	8	893
	Hall, Edward D., <i>et al.</i> (See Hall, Asa, assignor.)					
171, 015	Hall, Edward K., Boston, Mass. Bonnet-fastener.....	Dec. 14, 1875	342	114	8	1003
159, 093	Hall, Edwin L., Zanesville, Ohio. Process for manufacturing tiles.....	Jan. 26, 1875	732	.....	7	147
161, 953	Hall, Elihu, Wallingford, Conn. Wheel for vehicles.....	Apr. 13, 1875	331	111	7	627
	Hall, Fred. H., <i>et al.</i> (See Angus, John, assignor.)					
164, 553	Hall, Frederic H., Zanesville, Ohio. Manufacture of tiling.....	June 15, 1875	679	.....	7	1041
169, 357	Hall, George L., assignor to C. W. Hodgdon, Boston, Mass. Machine for rolling horse-shoe-nails.....	Nov. 2, 1875	36	10, 11	8	739
	Hall, George W. (See Ofeldt, Frank W., assignor.)					
167, 241	Hall, Gordon W., Havana, assignor of one-half interest to R. Nelson Gere, Syracuse, N. Y. Tinting and revolving puddling-furnaces.....	Aug. 31, 1875	1047	{ 325 } { 326 }	8	379
171, 125	Hall, Gordon W., assignor of one-half interest to Albert O. Whittemore, Havana, N. Y. Balanced valve and cut-off.....	Dec. 14, 1875	448	147	8	1017
167, 450	Hall, Harry, assignor to self and Henry H. Wilson, Pontiac, Mich. Boot.....	Sept. 7, 1875	63	19	8	415
166, 098	Hall, Henry H., Tioga, Pa. Dish-washing machine.....	July 27, 1875	960	296	8	177
161, 407	Hall, Henry L., Chicago, Ill. Curtain-fixture.....	Mar. 30, 1875	1107	358	7	531
168, 836	Same..... Husking glove and mitten.....	Oct. 19, 1875	505	165	8	652
158, 488	Hall, Henry P., Bloomington, Ill. Corn-planter.....	Jan. 5, 1875	123	41	7	26
158, 703	Hall, Herman D., Denver, Colo. Saw-mill.....	Jan. 12, 1875	327	111	7	70
	Hall, Hinman L. (See Hall, John D., assignor.)					
6, 681	Hall, James, Ligonier, Ind. Windmill..... (Reissue).....	Oct. 5, 1875	225	73	8	596
161, 062	Same..... same.....	Apr. 13, 1875	421	{ 140 } { 141 }	7	638
160, 424	Hall, James, Cincinnati, Ohio. Bakers' oven.....	Mar. 2, 1875	149	52, 53	7	370
163, 986	Hall, James M., Worcester, Mass. Making wooden mats.....	June 1, 1875	122	41	7	948
	Hall, James S., <i>et al.</i> (See Angus, John, assignor.)					
	Hall, John, <i>et al.</i> (See Dick, Andrew, assignor.)..... (Reissue.)					
	Same..... (See Rohrer, John B., assignor.)..... (Design.)					
8, 498	Hall, John, Watertown, Mass. Toy bank..... (Design).....	July 27, 1875	.....	.....	8	148
159, 263	Same..... Toy money-box.....	Feb. 2, 1875	21	7	7	187
162, 747	Same..... same.....	May 4, 1875	11	4	7	748
163, 186	Hall, John, Brooklyn, N. Y. Oscillating engine.....	May 11, 1875	435	141	7	811
167, 895	Hall, John B., Saint Paul, Minn. Horse-boot.....	Sept. 21, 1875	487	154	8	491
170, 257	Hall, John D., New York, N. Y., assignor to Hinman L. Hall, Philadelphia, Pa. Parallel ruler.....	Nov. 23, 1875	938	293	8	880
	Hall, John H. (See La Monte & Hall.)					
170, 083	Hall, John S., San Francisco, Cal. Combined pencil-sharpener and eraser.....	Nov. 16, 1875	755	239	8	848
168, 637	Hall, John S., assignor to John L. Boone, San Francisco, Cal. Short-thread sewing-machine.....	Oct. 11, 1875	320	104	8	617
162, 232	Hall, John T., Morrisonville, Ill. Tire-tightener.....	Apr. 20, 1875	596	195	7	668
161, 782	Hall, Joseph, Napahanock, N. Y. Machine for making ox-shoes.....	Apr. 6, 1875	164	56	7	593
164, 731	Hall, Joseph, Riverside, Nebr. Hay-rack.....	June 22, 1875	852	276	7	1073
8, 803	Hall, Joseph, assignor of one-half interest to Joseph M. L. Gardner, Newark, N. J. Hat and bonnet holder for trunks..... (Design).....	Nov. 23, 1875	.....	.....	8	862
165, 820	Hall, Joseph, Newark, N. J., assignor to self and John Rorbach, Genesee, N. Y. Fastening for trunks, &c.....	July 20, 1875	683	208	8	126
165, 998	Hall, Joseph E., Paxton, Ill. Earth-auger.....	July 27, 1875	865	266	8	163
164, 832	Hall, Nehemiah, assignor of two-thirds interest to Bernhard Hund, Belleville, Ill., and Horace A. Stephens, Saint Louis, Mo. Ironing apparatus.....	June 22, 1875	943	305	7	1085
161, 225	Hall, Phidello W., Saint Louis, Mo. Postage-stamp holder.....	Mar. 23, 1875	912	298	7	499
164, 833	Same..... Same.....	June 22, 1875	944	305	7	1085
	Hall, Thomas. (See Wilson & Hall.)					
165, 571	Hall, Thomas Q., Indianapolis, Ind. Bed-lounge.....	July 13, 1875	432	130	8	77
165, 570	Hall, Thomas S., and George H. Snow, West Meriden, Conn. Circuit for electric signals.....	July 13, 1875	431	130	8	76
	Hall, William G., <i>et al.</i> (See Staniforth, William, assignor.)					
	Hall, William H., <i>et al.</i> (See Ludwig, John C., assignor.)					
167, 334	Hall, William H., Tiffin, Ohio. Straw-cutter.....	Aug. 31, 1875	1127	354	8	391
166, 771	Hall, William H., and Conrad S. Yingst, Tiffin, Ohio; said Yingst assignor to said Hall. Corn-sheller.....	Aug. 17, 1875	574	176	8	297
170, 848	Hall, William P., Greenville, Mich. Ironing-table.....	Dec. 7, 1875	172	59	8	973
6, 740	Hallam, Albert C., and James W. McKee, Brooklyn, N. Y., assignors, by mesne assignments, to George W. Manson, Lewiston, Me. Spring-motor..... (Reissue).....	Nov. 16, 1875	817	{ 257 } { 258 }	8	857
161, 783	Hallas, James G., and William N. Weeden, assignors to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Oil-cup.....	Apr. 6, 1875	165	57	7	593
164, 916	Hallberg, Lars G., Chicago, Ill. Combined hot-air furnace and range.....	June 29, 1875	1042	336	7	1105
165, 165	Hallett, Hervey H., Rockland, Mass. Harness-saddle.....	July 6, 1875	18	6	8	11
164, 448	Hallett, Robert L., Brooklyn, N. Y. Faucet.....	June 15, 1875	592	192	7	1029
	Halliday, Richard. (See Isaacs & Halliday.)					
167, 524	Halliday, William P., Cairo, Ill. Method of removing calcareous deposits from the exterior of tubes in salt apparatus.....	Sept. 7, 1875	129	39	8	424
162, 915	Hallidie, Andrew S., San Francisco, Cal. Endless wire-way.....	May 4, 1875	162	53	7	768
163, 865	Same..... Endless-rope traction-way.....	June 1, 1875	26	8	7	934
	Hallock, J. A. (See Wilcox, Harlow M., assignor.)					
	Hallock, Nicholas. (See Forbes & Hallock.)					
	Halsey, Clinton S. (See Strong, Robert H., assignor.)					
160, 425	Halsey, Edward, assignor of one-half interest to Daniel C. Bailey, San José, Cal. Double reversible hinge.....	Mar. 2, 1875	150	53	7	370
	Halsey, Eliza G. (See Huson, Edgar, assignor.)..... (Reissue.)					
168, 091	Halsted, William, Trenton, N. J. Spark-arrester.....	Sept. 28, 1875	686	{ 216 } { 217 }	8	526
170, 729	Same..... Locomotive feed-water heater.....	Dec. 7, 1875	69	21	8	960
161, 029	Halvorson, Halvor, Cambridge, assignor to Charles A. Shaw, Boston, Mass. Lamp-wick.....	Mar. 23, 1875	729	240	7	475
161, 118	Same..... same.....	Mar. 23, 1875	816	267	7	486
168, 739	Same..... Traveler for spinning rings.....	Oct. 11, 1875	409	133	8	630
171, 613	Halvorson, Halvor, Cambridge, assignor to Joseph Boynton, Boston, Mass. Rendering fats.....	Dec. 28, 1875	956	.....	8	1102
	Ham, Charles T. (See Ray & Ham.)					
	Same..... same..... (Design).....					
162, 546	Ham, Henry H., jr., Portsmouth, N. H. Shutter-fastener.....	Apr. 27, 1875	909	291	7	714
164, 370	Ham, Herbert H., Boston, Mass. Convertible chair.....	June 15, 1875	517	170	7	1020
	Ham, Robert. (See Scorer & Ham)..... (Design.)					
	Hamblin, Enos. (See Graham, Ezra, assignor.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
169, 804	Hamblin, Gideon D., Deering, Me. Pawl-and-ratchet mechanism.....	Nov. 9, 1875	489	154	8	806
159, 756	Hamblin, Stephen M. (See Hamblin, Sylvanus and Stephen M.) Hamblin, Sylvanus, and Stephen M., Pawtucket, R. I., assignors of two-thirds interest to Lewis S. Judd and Alexander Winsor, Fairhaven, Mass. File-cutting machine.....	Feb. 16, 1875	503	168	7	267
164, 834	Hamburg American Sewing Machine Company. (See Schmidt & Radbruck, assignors.) Hamburger, Herman, et al. (See Wilford, John B., assignor.) Hamburgh Sewing Machine Manufacturing Company. (See Schmidt, Albert E., assignor.) Hamel, Felix John, London, England. Machinery for compression or consolidation of blocks of fuel or other material.....	June 22, 1875	945	306	7	1085
164, 993	Hamil & Booth. (See Coignet, Joseph, assignor)..... (Design.)	June 29, 1875	1107	357	7	1113
6, 500	Hamilton, Alexander, Cresco, Iowa. Method of burning hay, straw, leaves, &c..... Hamilton, Alexander, Cresco, Iowa., assignor of one-half interest to Augustus Beadle and Benjamin Huntting. Stove..... (Reissue).....	June 22, 1875	1015	328	7	1094
158, 936	Hamilton, Alvin C. (See McArdle, James, assignor.) Hamilton, Benjamin R., South Deerfield, Mass. Rein-holder.....	Jan. 19, 1875	564	187	7	117
170, 849	Hamilton, Carlos S. (See Haraden, Harvey D., assignor.) Hamilton, Edward P. (See Dana, Joseph, assignor.) Hamilton, Farwell H., Bloomington, Ill. Cooking-stove.....	Dec. 7, 1875	173	59	8	974
167, 525	Hamilton, Fred C., New York, N. Y. Metallic seal.....	Sept. 7, 1875	129	39	8	424
168, 013	Hamilton, Fred C., New York, N. Y. Device for securing and canceling revenue- stamps.....	Sept. 21, 1875	582	187	8	506
168, 014	Hamilton, Fred C., assignor to Edward J. Brooks, New York, N. Y. Revenue-stamp for cigar-boxes.....	Sept. 21, 1875	583	187	8	506
168, 483	Hamilton, Fred C., Brooklyn, assignor to Edward J. Brooks, New York, N. Y. Nut- lock.....	Oct. 5, 1875	146	49	8	586
159, 920	Hamilton, Ira S., assignor of one-half interest to Benjamin N. and David W. Payne, Corning, N. Y. Gage-cock.....	Feb. 16, 1875	655	217	7	287
161, 226	Hamilton, James B. (See Farmer & Hamilton.) Hamilton, James B., Oxford, England. String for musical instruments.....	Mar. 23, 1875	913	299	7	499
165, 999	Hamilton, John A., Chippewa Falls, Wis. Bias-gage.....	July 27, 1875	866	266	8	163
159, 669	Hamilton, Joseph A., assignor of one-half interest to D. K. Wenrich, Joplin City, Mo. Furnace for smelting lead-ores.....	Feb. 9, 1875	406	135	7	248
163, 187	Hamilton, Robert. (See Gleason & Hamilton.) Hamilton, Silas H., Bushnell, Ill., assignor of one-half interest to John Fitch, Toledo, Ohio. Railway-tie.....	May 11, 1875	436	141	7	811
163, 484	Hamilton, Thomas H., assignor of one-half interest to James E. Stansbury, Baltimore, Md. Top for preserving-cans.....	May 18, 1875	727	231	7	866
170, 258	Hamilton, William R., Pittsburgh, Pa. Sofa-bedstead.....	Nov. 23, 1875	939	293	8	881
160, 900	Hamley, Henry. (See Rowland, James D., assignor.) Hamlin, Alonzo A., New York, N. Y. Bowling-alley.....	Mar. 16, 1875	607	198	7	449
160, 901	Hamlin, Solomon C., Ypsilanti, Mich. Ironing-table.....	Mar. 16, 1875	608	198	7	449
168, 988	Hammel, William, Baltimore, Md. Refrigerator and water-cooler.....	Oct. 19, 1875	642	212	8	671
161, 784	Hammer, Thorvald F., Branford, Conn. Molding-machine.....	Apr. 6, 1875	166	57	7	593
169, 358	Hammersley, George, Pittsburgh, Pa. Folding basket.....	Nov. 2, 1875	37	11	8	739
161, 954	Hammond, Alexander H. (See White, Alexander, assignor.) Hammond, Henry, Hartford, Conn. Drop-hammer.....	Apr. 13, 1875	332	111	7	627
161, 955	Same..... Carriage-axle box.....	Apr. 13, 1875	332	112	7	627
161, 956	Same..... Shearing-die for carriage-wheel boxes.....	Apr. 13, 1875	333	112	7	627
168, 740	Same..... Die for forging carriage-axle nuts.....	Oct. 11, 1875	410	133	8	630
164, 831	Hammond, Hugh, Smithfield, Ohio. Automatic gate.....	June 22, 1875	943	305	7	1085
168, 741	Hammond, Jonathan, Bellville, Ind. Drill-stock.....	Oct. 11, 1875	411	133	8	630
159, 321	Hampe, Albert, Staunton, Ill. Plow.....	Feb. 2, 1875	78	26	7	194
160, 094	Same..... same.....	Feb. 23, 1875	831	273	7	318
162, 380	Hampson, William A. (See Dunnavant & Hampson.) Hampton, James W., Mount Pleasant, Iowa. Washing-machine.....	Apr. 20, 1875	737	239	7	685
167, 663	Hanan, Julius, and Sigmund Bendit, New York, N. Y. Pocket-book lock.....	Sept. 14, 1875	262	82	8	450
168, 897	Hanbury, Cornelius. (See Hawker, Edwin, assignor.) Hance, Archibald, New York, N. Y. Car-ventilator.....	Oct. 19, 1875	556	182	8	659
163, 067	Hance, William M., Dover, N. J. Hand-protecting attachment for drills.....	May 11, 1875	328	106	7	797
168, 484	Hanchett, M. Waldo, Syracuse, N. Y. Piano-forte damper attachment.....	Oct. 5, 1875	147	49	8	586
161, 408	Hanchett, Thacher S., Wolcottville, Conn. Breeching attachment.....	Mar. 30, 1875	1107	358	7	532
168, 989	Hanck, Alfred B., et al. (See Hanck, Samuel, jr., assignor.) Hancock, George, Providence, R. I. Sewing-machine.....	Oct. 19, 1875	643	212	8	672
170, 555	Same..... Combined burglar-alarm and door-fastener.....	Nov. 30, 1875	1223	385	8	928
169, 438	Hancock, John, Danville, Pa. Machine for tapping mains.....	Nov. 2, 1875	107	34	8	749
166, 275	Hancock, John M., Lansing, Iowa. Self-acting blow-pipe.....	Aug. 3, 1875	81	25	8	211
163, 068	Hancock, Thomas, assignor to self and Anselm T. Nye, jr., Marietta, Ohio. Straw-cutter.....	May 11, 1875	328	106	7	797
159, 409	Hancock, William S., Englewood, Ill. Broom.....	Feb. 2, 1875	152	51	7	205
170, 169	Hand, August, Cleveland, Ohio. Billiard-table.....	Nov. 23, 1875	859	268	8	870
166, 696	Hand, Elkins, assignor of one-half interest to Clark D. Page, Rochester, N. Y. Burglar- alarm.....	Aug. 17, 1875	504	154	8	287
160, 671	Hand, Joseph B., assignor to self and Silas Lockwood, New York, N. Y. Shutter-bower.....	Mar. 9, 1875	380	129	7	412
158, 794	Hand, Samuel A., Philadelphia, Pa. Lawn-mower.....	Jan. 19, 1875	429	143	7	99
166, 001	Handy, Russell, Manville, R. I. Art of preparing cotton for spinning.....	July 27, 1875	867	.....	8	163
162, 646	Hanford, James A. S., Chicago, Ill. Non-explosive lamp collar and filler.....	Apr. 27, 1875	993	319	7	725
164, 449	Hankin, William, Seelyville, Pa. Saw-frame.....	June 15, 1875	593	192	7	1029
165, 095	Hanks, William R., assignor to Samuel G. Reed, Wellesley, Mass. Gas-burner for heating purposes.....	June 29, 1875	1198	385	7	1126
168, 749	Hanmacher, George H., Columbus, Ohio. Machine for elevating building-materials.....	Oct. 11, 1875	417	136	8	631
159, 546	Hanmore, John W., Newburgh, N. Y. Boiler-covering.....	Feb. 9, 1875	305	99	7	233
166, 000	Hann, George V., New York, N. Y. Process of making imitation wood.....	July 27, 1875	866	.....	8	163
162, 816	Hanna, Andrew M., Kosciusko, Miss. Earth-auger.....	May 4, 1875	73	24	7	757
161, 227	Hanna, Cyrus T., Keokuk, Iowa. Middlings-purifier.....	Mar. 23, 1875	914	299	7	499
163, 188	Hannabs, James M., assignor of one-half interest to Louis and Christian Wahl, Chicago, Ill. Elevated railway.....	May 11, 1875	437	142	7	811
163, 189	Same..... same.....	May 11, 1875	437	142	7	812
166, 363	Hannay, Peter. (See Plant, Pascal, assignor.) Hannum, Edwin H., Wilmington, Del. Sash-balance.....	Aug. 3, 1875	160	49	8	222
158, 704	Hanrahan, Joseph, Ottawa, Canada. Rock-drill.....	Jan. 12, 1875	327	111	7	70
163, 485	Hansell, Walter P., Pittsburgh, Pa. Car-spring.....	May 18, 1875	727	232	7	866
166, 606	Hansen, Eilev, Copenhagen, Denmark. Electroplating glass, china, &c.....	Aug. 10, 1875	404	.....	8	205
163, 190	Hansen, Hans R. M. J., and Christopher P. Jurgensen, Copenhagen, Denmark. Electro- mechanical printing instrument.....	May 11, 1875	438	142	7	812

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 898	Hansen, Rasmus M. J., Copenhagen, Denmark. Type-writing machine.....	Oct. 19, 1875	556	182	8	659
161, 597	Hanson, Charles, Huddersfield, England. Watch-spring equalizer.....	Apr. 13, 1875	333	112	7	637
8, 852	Hanson, Francis O., Philadelphia, Pa. Gate and panel..... (Design)	Dec. 21, 1875	.....	.....	8	1034
8, 853	Same..... Gate..... (Design)	Dec. 21, 1875	.....	.....	8	1034
171, 377	Same..... Iron fence.....	Dec. 21, 1875	705	232	8	1059
168, 154	Hantsche, Emil, and Adolph Wagner, New York, N. Y. Extension-table.....	Sept. 28, 1875	749	237	8	535
	Hapgood & Co. (See Lane, John, assignor.)					
	Hapgood & Co., et al. (See Lane, John, jr., assignor)..... (Reissue.)					
163, 589	Hapgood, Joab, Shrewsbury, Mass. Swivel-plow.....	May 25, 1875	841	{ 265 } 266	{ 7 } 8	888 310
166, 868	Haptonstall, John, Adel, Iowa. File.....	Aug. 17, 1875	661	205	8	310
171, 126	Haraden, Harvey D., assignor of one-half interest to Carlos S. Hamilton, Hartford, Vt. } Lifting-jack.....	Sept. 14, 1875	449	{ 147 } 148	{ 8 } 8	1018 1018
164, 836	Haradon, Lyman P., Clinton, Iowa. Window-sash.....	June 22, 1875	947	307	7	1085
169, 693	Harb, Calvin D., Andover, Ind. Smoke-house.....	Nov. 9, 1875	376	118	8	792
171, 279	Harb, Calvin D., Anderson, Ind. Provision-safe.....	Dec. 21, 1875	620	{ 202 } 203	{ 8 } 8	1048 1048
	Harbach, Frank M. (See Wallis & Harbach.)					
167, 896	Harbaugh, Isaac A., Brighton, Iowa. Harrow.....	Sept. 21, 1875	488	154	8	491
160, 318	Harbaugh, Lord W., Muscatine, Iowa. Horse-collar.....	Mar. 2, 1875	57	20	7	357
	Harbison, John S. (See Holloway, Henry C., assignor.)					
	Harbster, Mathan, et al. (See Griscom, William M., assignor.)					
	Same..... (See Rippien, Adolph, assignor.)					
	Harbster, William, et al. (See Griscom, William M., assignor.)					
	Same..... (See Rippien, Adolph, assignor.)					
164, 732	Hard, Hanson, Wadsworth, Ohio. Polishing-wheel.....	June 22, 1875	852	276	7	1073
6, 436	Hard, Pulaski C., Wadsworth, Ohio. Bed-bottom..... (Reissue)	May 18, 1875	810	256	7	876
164, 295	Hardee, Charles J., San Francisco, Cal. Lock-mortising machine.....	June 8, 1875	432	144	7	1000
	Hardee, W. H. (See Bizzell, William B., assignor.)					
	Harden, Charles E. (See Burkhardt & Harden.)					
171, 378	Hardenbrook, John J., Columbus Grove, Ohio. Heating-drum.....	Dec. 21, 1875	706	{ 232 } 233	{ 8 } 8	1060 1060
158, 705	Hardey, John, East Saginaw, Mich. Car-coupling.....	Jan. 12, 1875	328	112	7	70
	Hardick, Charles B., deceased. (See Hartley & Marshall, assignors.)					
	Same..... (See Mathieson, James W., assignor.)					
	Hardick, Sarah, executrix. (See Hartley & Marshall, assignors.)					
	Same..... (See Mathieson, James W., assignor.)					
170, 851	Harding, E. B., Northampton, and E. W. Higbee, Springfield, Mass. Speculum.....	Dec. 7, 1875	174	59	8	974
168, 990	Harding, Gustavus P., Paris, France. Breech-loading ordnance.....	Oct. 19, 1875	644	213	8	672
170, 850	Harding, Thomas, La Fayette, Ind. Fence.....	Dec. 7, 1875	173	59	8	974
163, 652	Harding, William W., Philadelphia, Pa. Water-motor fire-plug.....	May 25, 1875	897	284	7	895
166, 203	Same..... Combined fire-plug and automatic pump.....	Aug. 3, 1875	18	7	8	201
171, 563	Hardison, Wallace L., Saint Petersburg, Pa. Petroleum-well.....	Dec. 28, 1875	896	293	8	1094
171, 615	Same..... same.....	Dec. 28, 1875	957	310	8	1102
171, 616	Same..... Packer for oil-wells.....	Dec. 28, 1875	958	310	8	1102
164, 835	Hardman, John H., Allegheny, Pa. Bale-tie.....	June 22, 1875	947	306	7	1085
161, 409	Hardman, John H., assignor of three-fourths interest to William W. Tyson, William H. Faulkner, and James Johnston, Allegheny, Pa. Bale-tie.....	Mar. 30, 1875	1108	359	7	532
	Hardy, Charles, Biddeford, Me. Machinery for grinding the card-teeth of carding-cylinders..... (Extension)	Feb. 4, 1875	.....	.....	7	303
158, 795	Hardy, Clinton R., Lexington, Ind. Clover-harvester.....	Jan. 19, 1875	430	144	7	100
	Hardy, Dexter D., et al. (See Hardy, Franklin D., assignor.)					
160, 769	Hardy, Dexter D., assignor of two-thirds interest to Charles L. Booth and John R. Stone, Delavan, Ill. Car-starter.....	Mar. 16, 1875	497	162	7	434
161, 030	Hardy, Dexter D., assignor, by mesne assignments, to self and Charles L. Booth and John R. Stone, Delavan, Ill. Car-starter.....	Mar. 23, 1875	730	240	7	475
163, 486	Hardy, Franklin D., assignor to Charles L. Booth and Dexter D. Hardy, Delavan, Ill. Car-starter.....	May 18, 1875	728	232	7	866
171, 127	Hardy, Levi, Worcester, Mass. Manufacture of cutter-stock.....	Dec. 14, 1875	450	148	8	1018
163, 987	Hardy, Pierre J., New York, N. Y. Heating-stove.....	June 1, 1875	124	41, 42	7	948
163, 988	Same..... same.....	June 1, 1875	125	42	7	948
163, 989	Same..... Application of stones to walls of buildings.....	June 1, 1875	126	43	7	948
163, 990	Same..... Application of marble to building purposes.....	June 1, 1875	127	43	7	948
163, 991	Same..... Covering for walls of buildings.....	June 1, 1875	128	43	7	948
163, 992	Same..... Application of stone to building purposes.....	June 1, 1875	228	44, 45	7	948
163, 993	Same..... Baluster.....	June 1, 1875	229	45	7	948
163, 994	Same..... Construction of columns and pilasters.....	June 1, 1875	230	45	7	948
163, 995	Same..... Construction of marble columns.....	June 1, 1875	130	46	7	948
163, 996	Same..... Hand-rail.....	June 1, 1875	131	46	7	949
160, 319	Hardy, Thomas P., New York, N. Y. Device for holding pipe-fittings.....	Mar. 2, 1875	58	21	7	357
161, 508	Hare, James, Providence, R. I. Belt-coupling.....	Mar. 30, 1875	1206	387	7	544
161, 610	Hare, James, Brooklyn, N. Y. Steam-valve.....	Apr. 6, 1875	18	7, 8	7	571
166, 002	Same..... same.....	July 27, 1875	868	267	8	164
166, 457	Hare, James, assignor to Josiah A. Whitman, Providence, R. I. Belt-coupling.....	Aug. 10, 1875	280	83	8	246
167, 169	Hare, Richard T., Springfield, Mass. Adjustable rest for the arm while firing guns.....	Aug. 31, 1875	988	307	8	371
169, 636	Same..... Block for holding cartridges.....	Nov. 9, 1875	315	101	8	784
8, 398	Harger, Charles G., jr., Watertown, N. Y. Game-board..... (Design)	June 15, 1875	.....	.....	7	1014
168, 742	Hargis, William H., Cartersville, Ga. Track-lifting lever.....	Oct. 11, 1875	411	134	8	631
170, 084	Hargrave, Thomas C., Boston, Mass. Packing-ring for car-axle boxes.....	Nov. 16, 1875	755	239	8	848
170, 364	Hargreaves, Edward E., Sarnia, Canada. Ventilating-car.....	Nov. 23, 1875	1027	322	8	893
169, 694	Harker, Samuel T., Milwaukee, Wis. Anti-freezing cock.....	Nov. 9, 1875	377	118	8	792
8, 604	Harkins, Thomas B., Bristol, Pa. Match-safe..... (Design)	Sept. 7, 1875	.....	.....	8	403
	Harkness, Porter. (See Richardson & Harkness.)					
161, 410	Harkness, William, Providence, R. I. Gas-retort.....	Mar. 30, 1875	1109	359	7	532
164, 646	Harlan, Newton, Washington, D. C. Book-clasp.....	June 22, 1875	773	253	7	1063
168, 991	Harley, James, Lowell, Mass. Dyeing and calico-printing.....	Oct. 19, 1875	645	.....	8	672
170, 626	Same..... Dyeing and printing textile fabrics.....	Nov. 30, 1875	1293	.....	8	937
125, 547	Harlow, Charles F., Boston, Mass. Cloth-cutting machine.....	Apr. 27, 1875	910	{ 291 } 292	{ 7 } 8	714 714
168, 155	Harlow, Joseph B., assignor of one-half interest to William A. Jackman, Portland, Me. Sofa-bed.....	Sept. 28, 1875	751	237	8	535
166, 772	Harlow, Philander, Hyde Park, Mass. Sheep-shears.....	Aug. 17, 1875	574	176	8	297
159, 547	Harlow, William C., Medford, Mass. Animal-shearing machine.....	Feb. 9, 1875	306	99	7	234
161, 681	Harman, Daniel M., Baltimore, Md. Mechanism for weaving mats.....	Apr. 6, 1875	80	28	7	580

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 015	Harman, Frank M., Ottumwa, Iowa, assignor to self and John S. Harman, Tecumseh, Nebr. Fire-escape	Sept. 21, 1875	584	188	8	506
	Harman, John S. (See Harman, Frank M., assignor.)					
161, 878	Harman, Miles H., Andover, N. Y. Stove-pipe shelf	Apr. 13, 1875	267	89	7	618
160, 458	Harmon, Ambrose J., Boston, Mass. Clothes-pounder	Aug. 10, 1875	281	84	8	246
8, 371	Harmon, Simpson L., Batesville, Miss. Lawyer's badge (Design)	June 1, 1875			7	926
	Harmony, Lewis, et al. (See Taylor, John, assignor.)					
161, 509	Harned, Atkinson L., Boston, Ky. Ditching-plow	Mar. 30, 1875	1206	387	7	544
160, 518	Harney, James, assignor of one-half interest to John Seton, Brooklyn, N. Y. Skylight-bar	Mar. 9, 1875	250	85	7	393
		Dec. 14, 1875	343	114	8	1003
171, 016	Harper, Abram, and Laroy W. Cross, Edgerton, Ohio. Spring-scales	Dec. 14, 1875	343	114	8	1003
	Harper & Son, Joseph T. (See Harper, Joseph T., assignor.)					
170, 259	Harper, Derastus, Hearne, Tex. Car-coupling	Nov. 23, 1875	940	293	8	881
6, 493	Harper, James M., El Paso, Ill. Fly-trap (Reissue)	June 22, 1875	1007	325	7	1093
162, 916	Harper, Joseph T., assignor to Joseph T. Harper & Son, Charleston, Ill. Opera-boot	May 4, 1875	163	53	7	768
165, 572	Harper, Joseph T., Charleston, Ill. Mode of cutting boot-fronts	July 13, 1875	432	131	8	77
	Harper, Oliver M. (See McCoy & Harper.)					
166, 987	Harper, Peter, Marshall, Tex. Car-coupling	Aug. 24, 1875	791	244	8	337
166, 869	Harper, Thomas J., Atlanta, Ga. Sewing-machine	Aug. 17, 1875	662	206	8	310
163, 653	Harper, William, Senecaville, Ohio. Brake for hay-wagons	May 25, 1875	897	284	7	895
166, 986	Harper, William H., Shamburgh, Pa. Torpedo for oil-wells	Aug. 24, 1875	790	244	8	336
164, 994	Harrell, Simeon L., assignor of one-half interest to Theodore H. Bryant, Chicago, Ill. Package-strap handle	June 29, 1875	1108	357	7	1113
6, 804	Harrell, William K., Clarinda, Iowa, assignor to self and Thomas B. and De Witt C. Chamberlain. Plow (Reissue)	Dec. 14, 1875	545	178	8	1030
	Harriman, Jesse E. (See Norton, Mason S., assignor.)					
	Harrington, Abner C. (See Deland, Franklin A., assignor.)					
165, 327	Harrington, Anthony W., Bewleyville, Ky. Press	July 6, 1875	168	51	8	32
160, 054	Harrington, Barzilla S., China, Me. Fire-kindler	Feb. 23, 1875	798	262	7	313
159, 410	Harrington, Daniel J., Cork, Ireland, assignor to Joseph M. Laughlin, Boston, Mass. Manufacture of horseshoe-nail plates	Feb. 2, 1875	153	51	7	205
161, 119	Harrington, David, assignor of one-half interest to Noah D. Gay, Worcester, Mass. Friction-clutch pulley	Mar. 23, 1875	817	268	7	486
161, 958	Harrington, Dexter, Southbridge, Mass. Shoe-shave	Apr. 13, 1875	334	112	7	627
171, 280	Harrington, Elliot P., Detroit, Mich. Car-coupling	Dec. 21, 1875	621	203	8	1048
	Harrington, George. (See Edison, Thomas A., assignor.)					
169, 990	Harrington, George E., Salem, Mass. Portable skid	Nov. 16, 1875	666	209	8	837
161, 063	Harrington, Jackson, Groton Bank, Conn., assignor of one-half interest to Franklin P. Renyon. Screw-propeller	Apr. 13, 1875	422	141	7	638
165, 488	Harrington, James H., Providence, R. I. Neck-tie fastener	July 13, 1875	358	105	8	65
168, 638	Same. Button-fastening	Oct. 11, 1875	322	104	8	617
168, 485	Harrington, John, Ryde, Isle of Wight, England. Manufacture of artificial leather	Oct. 5, 1875	148		8	586
8, 664	Harrington, Leonard B., jr., Boston, Mass. Child's carriage (Design)	Sept. 28, 1875			8	520
168, 394	Same. same	Oct. 5, 1875	67	24	8	574
164, 168	Harrington, Richard, Shenandoah, Pa. Iron curb for streets	June 8, 1875	314	106	7	984
	Harrington, R. P., et al. (See Harris, Samuel, assignor.)					
159, 548	Harrington, Theodore, Southbridge, Mass. Shoe-shave	Feb. 9, 1875	306	99	7	234
162, 065	Harrington, Thomas, assignor of one-half interest to Joseph J. Solomon and Andrew J. Loecher, Philadelphia, Pa. Anti-friction metal	Apr. 13, 1875	424		7	639
163, 167	Harrington, Thomas H., Pittsburgh, Pa. Combined air-heater and boiler	Oct. 26, 1875	831	270	8	705
167, 170	Harrington, Thomas H., assignor to Anthony F. Keating, Pittsburgh, Pa. Carbureter	Aug. 31, 1875	989	307 308	8	371
168, 156	Harris, Alfred E., London, England. Nut-lock	Sept. 28, 1875	752	237	8	536
166, 773	Harris, Benjamin, Marshalltown, Iowa. Mold for casting	Aug. 17, 1875	576	177	8	297
170, 260	Harris, Charles C., assignor of one-half interest to Louis C. Huth; said Harris and Huth assignors of one-third interest to Robert A. Boyd, Washington, D. C. Convertible sofa and table	Nov. 23, 1875	941	293 294	8	881
161, 785	Harris, Charles H., Cedartown, Ga. Riding-saddle	Apr. 6, 1875	167	57	7	593
163, 769	Same. Spring-saddle	May 25, 1875	992	314	7	907
168, 395	Harris, Elbridge, Boston, Mass. Page-indicator for books	Oct. 5, 1875	68	24	8	574
166, 003	Harris, Elisha, Providence, R. I. Apparatus for extinguishing fires	July 27, 1875	869	267	8	164
165, 821	Harris, Enoch M., and Michael H. O'Neal, Richmond, Va. Sad-iron	July 20, 1875	684	209	8	126
	Harris, George W. (See Carey, Wilson W., assignor.)					
169, 637	Harris, George W., Elizabeth, N. J. Process of manufacturing illuminating and heating gas	Nov. 9, 1875	316	101	8	784
170, 627	Harris, John, Marquette, Wis. Self-locking cultivator-tooth	Nov. 30, 1875	1295	408	8	937
165, 573	Harris, John H., Iola, Kans. Washing-machine	July 13, 1875	433	131	8	77
161, 510	Harris, John P., Newburgh, N. Y. Meat-cutter	Mar. 30, 1875	1207	388	7	544
159, 820	Harris, Joseph, jr., Boston, Mass. Device for heating tires	Feb. 16, 1875	563	187	7	274
169, 169	Harris, Joseph, Paola, Kans. Car-coupling	Oct. 26, 1875	833	271	8	705
169, 903	Harris, Milo, Jamestown, N. Y. Lumber-drier	Nov. 16, 1875	594	184 185	8	827
170, 730	Same. Condenser for stills and drying-chambers	Dec. 7, 1875	70	22	8	900
162, 285	Harris, Noah, assignor of one-half interest to Hiram Stout, North Grove, Ind. Box for packing lamp-chimneys	Apr. 20, 1875	642	210	7	674
168, 639	Harris, Pliny H., San Antonio, Tex. Station-indicator	Oct. 11, 1875	322	105	8	618
164, 296	Harris, Robert S., Wilmington, Del. Horseshoeing-stock	June 8, 1875	434	144	7	1000
	Harris, Samuel. (See Robinson, William, jr., assignor.)					
170, 085	Harris, Samuel, assignor to self, Samuel Shepherd, and R. P. Harrington, Boston, Mass. Nail-driving machine for shoemaking	Nov. 16, 1875	756	239	8	848
	Harris, Samuel A. (See Bugbee, Alpheus, assignor.)					
	Harris, Samuel J. (See McQuary, Thomas, assignor.)					
168, 092	Harris, Theodore, and August Kindermann, Cleveland, Ohio. Cane and umbrella combined	Sept. 28, 1875	687	217	8	527
169, 695	Harris, Thomas, assignor of one-half interest to Beach C. and Huntington Beard, Fayetteville, N. Y. Door-hanger	Nov. 9, 1875	378	118	8	792
161, 786	Harris, William, and John M. Ayer, Chicago, Ill. Three-high roll	Apr. 6, 1875	168	57, 58	7	593
169, 168	Harrison, Benjamin J., New York, N. Y. Infant's parlor-wagon	Oct. 26, 1875	833	270	8	705
	Harrison, Charles. (See Van Duyer, Isaac F., assignor.)					
162, 064	Harrison, Charles H., assignor of one-half interest to William H. Harrison, Philadelphia, Pa. Furnace-grate	Apr. 13, 1875	423	141	7	638
160, 426	Harrison, George W., Lansing, Mich. Elastic pitman-connection	Mar. 2, 1875	151	53	7	370
169, 696	Same. Knife-head for harvesters	Nov. 9, 1875	378	119	8	792
165, 574	Harrison, Henry L., East Saginaw, Mich. Feather-duster	July 13, 1875	434	131	8	77
161, 411	Harrison, James, Reading, Pa. Letter-box alarm	Mar. 30, 1875	1109	359	7	532

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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169, 697	Harrison, John B., Saint Joseph, Mo. Kitchen-safe	Nov. 9, 1875	380	119	8	792
169, 805	Harrison, Samuel, Baltimore, Md. Safety-valve	Nov. 9, 1875	490	154	8	806
160, 095	Harrison, Samuel L., assignor of one-half interest to Deborah I. and Joseph S. Paxson, San Francisco, Cal. Railway-car axle	Feb. 23, 1875	832	273	7	318
160, 320	Harrison, Theophilus, and William C. Buchanan, Belleville, Ill. Thrashing-machine	Mar. 2, 1875	60	21	7	357
167, 526	Harrison, Thomas B., assignor of one-half interest to Sylvester P. Bartlett, Quincy, Ill. Cistern cut-off	Sept. 7, 1875	131	39	8	424
161, 412	Harrison, William, Liverpool, England. Purifying and concentrating salt-brine	Mar. 30, 1875	1111	359	7	532
163, 069	Harrison, William C., Goshen, N. Y. Rag-cutting machine	May 11, 1875	329	107	7	797
167, 401	Harrison, William H. (See Harrison, Charles H., assignor.)					
168, 251	Harrison, William H., Livermore, Cal. Elevated railway	Sept. 7, 1875	21	6	8	409
160, 823	Harrison, William H., Bethlehem, Pa. Valve for pumping-engines	Sept. 28, 1875	834	266	8	547
160, 823	Harrsch, William F., Chicago, Ill. Distance-measuring instrument	Mar. 16, 1875	545	177	7	441
159, 757	Harsha & Price. (See Price, William T., assignor.) (Design.)					
159, 757	Hart, Amos W., Washington, D. C. Camp-stool	Feb. 16, 1875	504	169	7	267
162, 548	Hart, Bliven & Mead Manufacturing Company. (See Fogelstrand, Otto F., assignor.) (Design.)					
162, 548	Hart, Chauncey B., Fairport, N. Y., and George W. Hart, Medina, Mich. Clothes-pounder	Apr. 27, 1875	911	292	7	715
163, 770	Hart, Clarence A. (See Hirner, Jacob, assignor.)					
163, 770	Hart, Daniel R., Saint Louis, Mo. Device for operating street-car doors	May 25, 1875	992	315	7	908
169, 806	Hart, George B. (See Black, Llewellyn L., assignor.)					
169, 807	Hart, George E., Newark, N. J. Cartridge	Nov. 9, 1875	491	154	8	806
167, 527	Same	Nov. 9, 1875	491	155	8	806
166, 774	Hart, George W. (See Hart, Chauncey B. and George W.)					
162, 286	Hart, Gilbert, Detroit, Mich. Mold for forming artificial grindstones	Sept. 7, 1875	132	40	8	424
167, 664	Hart, Harrison N., Sandwich, N. H. Packing-box	Aug. 17, 1875	576	177	8	297
161, 031	Hart, Henry C., Adrian, Mich. Wick-raiser	Apr. 20, 1875	642	210	7	674
167, 897	Hart, Henry C., and Marmaduke R. S. Dillon-Lee, Adrian, Mich. Fire-extinguisher	Sept. 14, 1875	262	82, 83	8	450
163, 927	Hart, Hubert C., Unionville, Conn. Bit-stock	Mar. 23, 1875	731	240	7	475
160, 427	Hart, Hubert C., assignor of one-half interest to A. S. Upson, Unionville, Conn. Ratchet-brace for metal-drills	Sept. 21, 1875	489	155	8	491
171, 379	Hart, James M., Apple Grove, Va. Water-wheel gate	June 1, 1875	75	25	7	941
160, 903	Hart, John A., and Harmon Scott, Iola, Kans. Mechanical movement	Mar. 2, 1875	152	53	7	370
160, 902	Hart, John A., and William A. Grove, Tionesta, Pa. Stump-extractor	Dec. 21, 1875	707	233	8	1060
169, 102	Hart, Philo W., Camden, N. Y. Machine for sawing laths	Mar. 16, 1875	609	199	7	450
169, 102	Hart, Richard, assignor of one-half interest to James Gillespie, Gloversville, N. Y. Process of fleshing, dressing, and finishing sheep-skins	Mar. 16, 1875	609		7	449
169, 102	Same	Oct. 26, 1875	774		8	696
159, 921	Hart, Samuel M. (See Pruyn, Robert L., assignor.)					
163, 866	Hart, William A. (See Hubbard & Hart.)					
168, 992	Hart, William H., jr., Philadelphia, Pa. Neck-tie	Feb. 16, 1875	655	217	7	287
168, 993	Same	June 1, 1875	27	9	7	934
8, 285	Same	Oct. 19, 1875	646	213	8	672
8, 285	Same	Oct. 19, 1875	647	213	8	672
8, 285	Hartell, Thomas R., Philadelphia, Pa. Medal	Apr. 27, 1875			7	701
161, 413	Hartford Carpet Company. (See Green, Frederick W., assignor.) (Design.)					
168, 640	Same					
170, 556	Same					
163, 997	Same					
168, 486	Same					
163, 487	Same					
164, 554	Same					
160, 186	Same					
168, 487	Same					
166, 364	Hartford Pump Company. (See Babcock, Jabez K., assignor.) (Reissue.)					
160, 096	Hartje, Frederick. (See Hartje, George and Frederick.)					
8, 352	Hartje, George, Newark, N. J., and Frederick Hartje, New York, N. Y. Combined shawl-pin and clamp	Mar. 30, 1875	1113	360	7	532
168, 640	Hartley, M., et al. (See Payne, Brigham, assignor.) (Reissue.)					
170, 556	Hartley, Roger, and John B. Marshall, assignors to Sarah Hardick, John Ryer, and Abraham H. Van Hoesen, executors of Charles B. Hardick, deceased, Pittsburgh, Pa. Plunger-pump	Oct. 11, 1875	323	105	8	618
163, 997	Hartman, Frederick, Newark, N. J. Lamp-extinguisher	Nov. 30, 1875	1224	385	8	929
168, 486	Hartmann, Christian, Hanover, Germany. Horseshoe	June 1, 1875	132	46, 47	7	949
163, 487	Hartness, James, Detroit, Mich. Car or boat attachment for balloons	Oct. 5, 1875	149	49	8	586
164, 554	Hartnett, Richard W. (See Mayall & Hartnett.)					
160, 186	Hartsig, Emil, New York, N. Y. Sad-iron shoe	May 18, 1875	729	232	7	866
168, 487	Hartson, La Fayette, and James W. Bronson, Wyoming, Iowa. Bridle-bit	June 15, 1875	680	221	7	1041
166, 364	Hartwell, Bartholomew, Baltimore, Md. Corpse-preserving casket	Feb. 23, 1875	906	298	7	329
160, 096	Hartwell, Charles S., assignor to George S. Peck and Frank Grant, Westfield, Mass. Chuck for turning whip-stocks	Oct. 5, 1875	150	49	8	586
8, 352	Hartwell, George W., Cincinnati, Ohio. Attaching handles to vessels	Aug. 3, 1875	161	50	8	222
8, 352	Hartwick, George G., Jersey City, N. J., and Ernest Marx, New York, N. Y. Double-acting submerged pump	Feb. 23, 1875	832	273	7	318
8, 352	Hartzell, George, assignor to John P. and Alfred D. Reifsneider, William H. Gosnell, and George Hartzell, Philadelphia, Pa. Back of lounge. (Case A. Design)	May 25, 1875			7	879
8, 353	Same	May 25, 1875			7	879
8, 354	Same	May 25, 1875			7	879
161, 959	Hartzheim, John, New York, N. Y. Molding-machine	Apr. 13, 1875	335	113	7	627
169, 698	Harvey & Ford. (See Harvey, Joseph, assignor.) (Reissue.)					
160, 591	Harvey, Benjamin, Sulphur Springs, Ind. Hominy-mill	Nov. 9, 1875	380	{ 119 120 }	8	792
159, 549	Harvey, Charles, et al. (See Goodridge, John M., assignor.) (Reissue.)					
169, 540	Harvey, Charles W., Waterloo, Iowa. Bag-fastener	Mar. 9, 1875	312	106	7	402
6, 513	Harvey, Ethel O., Lubec, Me. Clevis	Feb. 9, 1875	307	99	7	234
165, 575	Harvey, John W., Memphis, Mo. Empirical prescription for the cure of catarrh.	Nov. 2, 1875	194		8	761
168, 837	Harvey, Joseph, Philadelphia, Pa., assignor to Harvey & Ford. Bone-handle for canes, &c.) (Reissue.)	June 29, 1875	1244	400	7	1133
165, 575	Harvey, Samuel B. (See Mathews, John, assignor.)					
168, 837	Harvey, T. A., et al. (See Bailey, Clemon, assignor.)					
168, 837	Harvey, Willard H., Kingman, Me. Holdback	July 13, 1875	434	131	8	77
168, 837	Harwood, George D., Andrew County, Missouri, assignor of three-fourths interest to Samuel L. Wilmer, Jessup, Iowa, David C. Stotts and James H. Baker, Savannah, and George H. Ziph and William S. Leach, Saint Joseph, Mo. Rotary engine	Oct. 19, 1875	505	{ 165 166 }	8	652

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Harwood, George S., <i>et al.</i> (See Dewey, John J., assignor.)					
159, 923	Same..... (See Freeman, Josiah G., assignor.)					
8, 163	Harwood, George S., Boston, Mass. Feeding mechanism for carding-machines.....	Feb. 16, 1875	657	217	7	287
	Harwood, Grove M., Troy, and Robert Wood, West Troy, N. Y. Rocking-chair. (Design).....	Feb. 23, 1875			7	302
8, 009	Harwood, Joseph A., <i>et al.</i> (See Orcutt, Charles H., assignor.)					
8, 020	Harwood, Luther W., assignor to Fuller, Warren & Co., Troy, N. Y. Cooking-range. (Design).....	Jan. 19, 1875			7	93
	Harwood, Luther W., and John C. Smith, assignors to Fuller, Warren & Co. Troy, N. Y. Cooking-stove..... (Design).....	Jan. 26, 1875			7	133
168, 329	Harwood, Nahum, <i>et al.</i> (See Orcutt, Charles H., assignor.)					
	Harwood, Nahum, Leominster, Mass. Machine for notching and flanging counter-blanks for boots and shoes.....	Oct. 5, 1875	13	5	8	566
	Haseltine, John, Boston, Mass. Water-wheel..... (Extension).....	Oct. 14, 1875				(*)
163, 312	Hasenritter, Robert H., Hermann, Mo. Self-heating sad-iron.....	May 18, 1875	572	183	7	845
167, 335	Same..... Show-case.....	Aug. 31, 1875	1128	354	8	391
159, 510	Haserich, Ernest C., Maynard, assignor of one-half interest to George W. Williams, Boston, Mass. Tanning apparatus.....	Feb. 9, 1875	274	89	7	230
163, 011	Haskell, Asa G., North Andover, Mass. Life-preserving bed.....	May 11, 1875	274	88	7	791
	Haskell, Calvin, <i>et al.</i> (See Reynolds, William L., assignor.)					
6, 255	Haskins, John F., Fitchburgh, Mass. Connecting-rod..... (Reissue).....	Jan. 26, 1875	880	286	7	167
170, 261	Hass, Theodore, New York, N. Y. Electrical low-water and high-pressure alarm.....	Nov. 23, 1875	941	294	8	881
171, 222	Hasselman, Lewis W., Indianapolis, Ind. Grain-separator.....	Dec. 21, 1875	568	187	8	1041
160, 904	Hastings, Glover S., Granby, assignor to self and Frank S. Johnson, Plainfield, Conn. Measuring rule.....	Mar. 16, 1875	610	199	7	450
166, 099	Hastings, Glover S., Unionville, assignor to self, Frank S. Johnson, and Willis J. Hemingway, Plainville, Conn. Combined knife and tape-line.....	July 27, 1875	961	296	8	177
166, 524	Hastings, James, Elizabethport, N. J. Planking-clamp.....	Aug. 10, 1875	333	101	8	254
167, 528	Hastings, James L., <i>et al.</i> (See Connelly, Joseph H., assignor.)					
	Hastings, Robert E., and Benjamin W. Naves, Philadelphia, Pa. Car-starter.....	Sept. 7, 1875	133	40	8	425
	Hastings, William H., <i>et al.</i> (See Connelly, Joseph H., assignor.)					
163, 191	Hasty, Robert H. (See Pinney & Hasty.)					
	Haswell, Arthur, and John C. Long, Webster City, Iowa. Tanning compound.....	May 11, 1875	443		7	812
	Haswell, Charles H., jr. (See Haswell, Gouverneur K., assignor.)					
164, 169	Haswell, Gouverneur K., assignor to Charles H. Haswell, jr., New York, N. Y. Oil-can.....	June 8, 1875	315	107	7	984
8, 286	Hatch, George E., East Cambridge, Mass. Glassware..... (Design).....	Apr. 27, 1875			7	701
8, 585	Hatch, George E., assignor to New England Glass Company, East Cambridge, Mass. Glass fruit-dish..... (Design).....	Aug. 31, 1875			8	364
8, 831	Hatch, George E., East Cambridge, Mass. Inkstand..... (Design).....	Dec. 7, 1875			8	945
158, 413	Hatch, George W., Fond du Lac, Wis. Spring bed-bottom.....	Jan. 5, 1875	55	19	7	17
165, 822	Hatch, George W., Lawrence, Kans. Mode of tanning leather.....	July 20, 1875	685		8	126
167, 529	Hatch, George W., Parkman, Ohio. Fence-post.....	Sept. 7, 1875	134	40	8	425
6, 534	Hatch, James L., Rochester, N. Y. Counter-stiffener for boots and shoes..... (Reissue).....	July 6, 1875	257	76	8	43
6, 319	Hatch, Jesse W., Rochester, N. Y. Apparatus for crimping the stiffening of boots and shoes..... (Reissue).....	Mar. 9, 1875	447	148	7	421
6, 388	Same..... Heel-stiffener..... (Reissue).....	Apr. 20, 1875	812	263	7	694
160, 770	Same..... Machine for pressing leather seams..... (Reissue).....	Mar. 16, 1875	498	162	7	434
160, 824	Hatch, Jonathan, and Guilford Smith, assignors to Smith, Winchester & Co. Windham, Conn. Vapor-drier.....	Mar. 16, 1875	546	177	7	441
	Hatch, Joseph S. (See Ridgway, Charles L., assignor.)					
162, 647	Hatch, Joseph H., Melrose, Mass., assignor of one-half interest to Joseph W. Spaulding, Richmond, Me. Ladies' paper towel.....	Apr. 27, 1875	994	319	9	725
164, 170	Hatch, Warren D., Peterborough, N. H. Spring bed-bottom.....	June 8, 1875	315	107	7	984
161, 611	Hatch, William W., and Chauncey W. Fuller, Lowell, Mich. Heating-stove.....	Apr. 6, 1875	20	8	7	571
160, 187	Hatfield, Daniel K., Pottstown, Pa. Toy automaton.....	Feb. 23, 1875	907	299	7	329
6, 360	Hatfield, George W., Dayton, Ohio. Manufacture of putty..... (Reissue).....	Mar. 30, 1875	1291		7	556
165, 823	Hatfield, James, Cincinnati, Ohio. Paper-bag machine.....	July 20, 1875	685	{ 209 210 244 245 246 247 }	8	127
166, 988	Same..... same.....	Aug. 24, 1875	792	{ 209 210 244 245 246 247 }	8	337
163, 771	Hathaway, Addison, Chicopee Falls, and Frank Hathaway, Springfield, Mass. Watch-key.....	May 25, 1875	993	315	7	908
170, 950	Hathaway, Alfred, Freetown, Mass. Screw-press.....	Dec. 14, 1875	279	94	8	995
	Hathaway, Ann J., executrix. (See Hathaway, Joshua.)					
	Hathaway, Frank. (See Hathaway, Addison & Frank.)					
	Hathaway, Joshua, deceased, by Ann J. Hathaway, executrix, Milwaukee, Wis. Device for converting reciprocating into rotary motion..... (Extension).....	Aug. 6, 1875				(*)
166, 697	Hathaway, Samuel A., Norwalk, Conn., assignor of one-half interest to George H. Stedwell, New York, N. Y. Thill-coupling.....	Aug. 17, 1875	505	154	8	287
165, 730	Hathinger, Joseph J., Hyde Park, Mass. Carpet-sweeper.....	July 20, 1875	589	181	8	114
158, 489	Hattorf, Frederick J., New Haven, Conn. Hinge.....	Jan. 5, 1875	124	41	7	26
	Hauback, A. G. (See Johnston & Hopkins, assignors.)					
	Hauck, Alfred B. (See Hauck, Samuel, jr., assignor.)					
162, 817	Hauck, Charles J., Brooklyn, N. Y. Machine for raising and planishing tobacco-boxes.....	May 4, 1875	74	24	7	757
165, 929	Hauck, Samuel, jr., assignor of two-thirds interest to Alfred B. Hauck and Charles B. Andrews, Lebanon, Pa. Vegetable-cutter.....	July 6, 1875	80	24	8	20
169, 991	Hauck, Samuel, jr., assignor of one-half interest to Alfred B. Hauck, Lebanon, Pa. Vegetable-cutter.....	Nov. 16, 1875	667	209	8	837
	Haulenbeck, John H., <i>et al.</i> (See Bridgman, Charles F., assignor.)					
167, 530	Haury, Francois, New York, N. Y. Bottle-stopper.....	Sept. 7, 1875	134	41	8	425
161, 228	Hauschild, Gustave, Topeka, Kans. Fountain-pen.....	Mar. 23, 1875	914	299	7	499
164, 733	Hauser, Conrad, New York, N. Y. Clothes-drier.....	June 22, 1875	853	277	7	1073
164, 297	Hauser, Isidor, assignor to Louis Dryfoos, New York, N. Y. Method of ornamenting skirts, &c.....	June 8, 1875	434	144	7	1000
161, 787	Havell, George, Newark, N. J. Curry-comb.....	Apr. 6, 1875	169	58	7	593
	Haven & Co., James L. (See Fry, Henry L., assignor.)					
	Haven, William. (See Titus, John C., assignor.)					
170, 365	Haven, William, Clymer, N. Y. Rotary engine.....	Nov. 23, 1875	1028	322	8	894
8, 665	Haviland, Charles F., Paris, France. Handle for dinner, tea, and toilet sets..... (Design).....	Sept. 28, 1875			8	520
170, 256	Hawes, Benjamin B., Morrisville, Vt. Furrow-gage.....	Nov. 23, 1875	937	292	8	880
	Hawes, Loring P., <i>et al.</i> (See Clough, Theodore, assignor.)					

* Not in Gazette.

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
	Hawes, William E. (See Porter, Hawes & Page.)					
	Hawey, Joseph, et al. (See Black, William K., assignor.)					
166, 365	Hawker, Edwin, Lee, assignor to Cornelius Hanbury, London, England. Confectionery..	Aug. 3, 1875	161	.....	8	222
168, 488	Same.....	Oct. 5, 1875	151	.....	8	586
163, 867	Hawkes, Daniel F., Timbuctoo, Cal. Flume-battery.....	June 1, 1875	28	9	7	934
164, 995	Hawkes, Ezra, Boston, Mass. Furnace and stove.....	June 29, 1875	1109	358	7	1113
166, 870	Hawkesworth, Daniel, Digby, Canada. Spark-arrester.....	Aug. 17, 1875	663	206	8	310
163, 488	Hawkins, David L., Elizabeth, N. J. Dose-register.....	May 18, 1875	729	232	7	866
169, 992	Same..... Paper box.....	Nov. 16, 1875	668	209	8	837
164, 450	Hawkins, Frederick W., Ypsilanti, Mich. Rake.....	June 15, 1875	594	193	7	1030
159, 264	Hawkins, Homer V., Amboy, Ill. Hay-loader.....	Feb. 2, 1875	22	7	7	187
	Hawkins, John L. (See Colvin, Orson, assignor.)					
161, 032	Hawkins, John L., San Quentin, Cal., assignor to William W. Walker and John L. Hawkins. Bed-bug trap.....	Mar. 23, 1875	731	241	7	476
166, 607	Hawkins, Marcus E., Lansingburgh, N. Y. Brush.....	Aug. 10, 1875	405	125	8	265
159, 322	Hawkins, Samuel, Matamora, Ind. Washing-machine.....	Feb. 2, 1875	79	26	7	194
163, 192	Hawkins, Thomas L., Liberty Centre, Ohio. Game-table.....	May 11, 1875	444	143	7	812
159, 411	Hawkins, Westel E., and Gurdon W. Hull, Wallingford, Conn. Call-bell.....	Feb. 2, 1875	154	52	7	205
165, 926	Hawkins, Westel E., assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Covered dish.....	July 27, 1875	797	244	8	154
163, 998	Hawkins, William, and William F. Dodge, Newark, N. J. Machine for cutting printers' leads.....	June 1, 1875	133	47	7	949
162, 648	Hawkins, William G., assignor to A. A. Holcomb and G. M. Gates, Pavilion, Mich. Car-coupling.....	Apr. 27, 1875	995	319	7	725
160, 549	Hawks, Elizabeth, Troy, N. Y. Air-chamber for stoves.....	Mar. 9, 1875	251	86	7	393
161, 612	Same..... Summer-stove.....	Apr. 6, 1875	21	8	7	571
158, 706	Hawks, George E., and Edgar A. Hill, Sheboygan, Wis. Handle for children's carriages and sleighs.....	Jan. 12, 1875	329	112	7	70
171, 380	Hawley, Abel, Galveston, Tex. Rotary-dredger.....	Dec. 21, 1875	707	{ 233 } 234	8	1060
171, 564	Same..... Locomotive earth-excavator.....	Dec. 28, 1875	898	293	8	1094
158, 707	Hawley, Frank A., and Amos Pearsall, McGregor, Iowa. Spring-seat support.....	Jan. 12, 1875	330	112	7	70
	Hawley, Gideon. (See Hawley, Henry Q., assignor.)					
166, 004	Hawley, Harvey W., Walton, N. Y. Water-wheel.....	July 27, 1875	870	268	8	164
171, 617	Hawley, Henry Q., assignor to Gideon Hawley, Albany, N. Y. Gas-stove.....	Dec. 28, 1875	959	311	8	1102
158, 937	Hawley, John S., Stapleton, N. Y. Vent-clearer for wash-bowls, &c.....	Jan. 19, 1875	565	187	7	117
164, 555	Hawley, Melville C., and William Lennox, Mattoon, Ill. Base-burning stove.....	June 15, 1875	680	221	7	1041
166, 525	Hawley, Samuel F., and Henry A. Mead, Cuba, N. Y. Milk-can.....	Aug. 10, 1875	334	101	8	254
	Haworth, George D., et al. (See Thomson & Ramsey, assignors)..... (Reissue.)					
6, 818	Haworth, George D., Decatur, Ill. Corn-planter..... (Reissue.)	Dec. 21, 1875	792	261	8	1071
159, 177	Same..... Check-row cord for corn-planners.....	Jan. 26, 1875	807	264	7	157
160, 055	Same..... Check-rower for corn-planners.....	Feb. 23, 1875	799	262	7	313
	Haworth, George W. (See Johnson, Samuel and David, assignors.)					
	Haworth, James W., et al. (See Thomson & Ramsey, assignors)..... (Reissue.)					
	Haworth, Lysander L., et al. (See Thomson & Ramsey, assignors)..... (Reissue.)					
160, 592	Haworth, Lysander L., London, Ohio. Seed drill and planter.....	Mar. 9, 1875	313	106	7	402
	Haworth, Mahlon, et al. (See Thomson & Ramsey, assignors)..... (Reissue.)					
168, 743	Haws, Andrew J., Johnstown, Pa. Brick press and former.....	Oct. 11, 1875	412	134	8	631
6, 503	Haxtun, William E., Kewanee, Ill. Furnace..... (Reissue.)	June 22, 1875	1019	329	7	1094
159, 178	Same..... Steam-generator.....	Jan. 26, 1875	808	265	7	157
164, 734	Hay, Adam, assignor of one-half interest to Paul G. Batticher, Newark, N. J. Compound box-girder.....	June 22, 1875	853	277	7	1074
	Hay, Alexander. (See Megee, Robert F., assignor.)					
163, 193	Hay, Henry J., Omph Ghent, Ill. Derrick for stacking hay.....	May 11, 1875	444	143	7	812
160, 428	Hay, Lamar T., Xenia, Ohio. Car-brake.....	Mar. 2, 1875	153	54	7	370
	Hay, Robert. (See Osborn & Hay.)					
159, 412	Hayden, Charles M., Hanover, Mass. Jig-saw.....	Feb. 2, 1875	154	52	7	206
166, 276	Hayden, Daniel W., Providence, R. I. Stopping mechanism for drawing-frames.....	Aug. 3, 1875	82	26	8	211
169, 262	Hayden, George, Newark, N. J. Ratchet-drill.....	Oct. 26, 1875	917	297	8	77
167, 665	Hayden, Henry F., Washington, D. C. Furnace-door casing.....	Sept. 14, 1875	265	83	8	450
168, 899	Same..... Furnace for locomotives.....	Oct. 19, 1875	558	{ 182 } 183	8	660
8, 277	Hayden, Nehemiah, Essex, Conn. Coffin-screw..... (Design)	Apr. 20, 1875	.....	.....	7	651
	Hayden, Thomas S., et al. (See Jackson, David, assignor.)					
	Hayden, Walter M. (See Gould & Hayden.)					
161, 879	Hayden, William B., Columbus, Ohio. Railway-car heater.....	Apr. 13, 1875	268	90	7	618
	Hayes, Amos P. (See Horton & Hayes.)					
171, 565	Hayes, David, Chicago, Ill. Fire-place.....	Dec. 28, 1875	898	294	8	1094
170, 852	Hayes, George, New York, N. Y. Ventilating-louver.....	Dec. 7, 1875	175	60	8	974
162, 917	Hayes, Isaac R., and John Somerset, Manchester, Great Britain. Umbrella.....	May 4, 1875	163	53	7	768
164, 996	Hayes, Ivory, Philadelphia, Pa. Breamer for painters' use.....	June 29, 1875	1110	358	7	1113
	Hayes, James P. (See Pickles, James C., assignor)..... (Reissue.)					
171, 614	Hayes, John J., Green Point, N. Y. Photographic-head-rest stand.....	Dec. 28, 1875	957	310	8	1102
167, 171	Hayes, John P., Philadelphia, Pa. Apparatus for melting solder.....	Aug. 31, 1875	991	308	8	371
169, 439	Same..... Paint-breamer.....	Nov. 2, 1875	108	34	8	750
165, 230	Hayes, Miles T., Burlington, Wis. Trace-buckle.....	July 6, 1875	81	24	8	20
163, 194	Hayner, George, assignor to self and Eddy, Corse & Co., Troy, N. Y. Reservoir cooking-stove.....	May 11, 1875	445	{ 143 } 144	7	812
160, 672	Haynes, Charles B., Worcester, Mass. Shutter and blind fastener.....	Mar. 9, 1875	381	129	7	412
160, 266	Haynes, Cornelius E., Boston, Mass., assignor to Charles W. Sabin and Augustus Page, Boston, Mass. Harness-snap.....	Mar. 2, 1875	10	5	7	350
166, 459	Haynes, Cornelius E., assignor to Augustus Page, Boston, Mass. Wringer.....	Aug. 10, 1875	282	84	8	246
168, 330	Haynes, Warren H., North Sudbury, Mass. Mechanism for unloading hay.....	Oct. 5, 1875	14	5	8	566
158, 490	Hays, Asahel T., McLean County, Ill. Horse hay-rake.....	Jan. 5, 1875	125	42	7	26
	Hays, David, et al. (See Griswold, Lev, assignor.)					
	Hays, George L. (See Gardner & Hays)					
170, 366	Hays, Joseph S., assignor to J. S. Hays and Daniel W. Dorsey, Annapolis, Md. Ironing-table.....	Nov. 23, 1875	1028	323	8	894
	Hays, J. S., et al. (See Hays, Joseph S., assignor.)					
	Hayt, Henry C., et al. (See Reed, William H., assignor.)					
164, 556	Hayton, Rob. C., and Charles A. Hurlburt, Ypsilanti, Mich. Saw-buck.....	June 15, 1875	681	221	7	1041
165, 096	Hayward, David S., New York, N. Y. Glove-stretcher.....	June 29, 1875	1199	385	7	1126
160, 520	Hayward, John H., New York, N. Y. Safety-tank for oil.....	Mar. 9, 1875	251	86		393
	Hayward, Joseph. (See Teachout, Albert P., assignor.)					
	Hayward, Thomas J., et al. (See Davis, John C., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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171, 223	Hazard, Oliver S., Coventry, R. I. Water-wheel and gate	Dec. 21, 1875	569	187	8	1041
169, 699	Hazelton, Dwight W., Philadelphia, Pa. Tube for railings, posts, &c.	Nov. 9, 1875	381	120	8	792
163, 590	Hazelton, Simon A., Bethany, N. Y. Grain-tally	May 25, 1875	842	266	7	888
166, 005	Hazzard, William H., Easton, Pa. Wall-paper exhibitor	July 27, 1875	871	268	8	164
	Heaberlin, Z. M. P. (See Oothoudt, Heaberlin & Sweet.)					
162, 287	Head, Merrick A., Carthage, Ill. Neck-tie holder	Apr. 20, 1875	643	210	7	674
158, 637	Head, Thomas, Lowell, Mass. Foot-rest for chairs	Jan. 12, 1875	268	90	7	62
160, 593	Head, Thomas, Copetown, Canada. Potato-digging machine	Mar. 9, 1875	314	106	7	402
162, 818	Heafer, Napoleon B., Bloomington, Ill. Brick-kiln	May 4, 1875	75		7	757
8, 197	Heald, Alfred, assignor to Hugh McCallum, Orlando Crease, Andrew J. Sloan, and William McCallum, Philadelphia, Pa. Carpet (Case Y. Design) ..	Mar. 9, 1875			7	387
8, 198	Same	Mar. 9, 1875			7	387
8, 208	Same	Mar. 16, 1875			7	427
8, 564	Heald, Alfred, Philadelphia, Pa. Carpet (Case A. Design) ..	Aug. 17, 1875			8	281
8, 565	Same	Aug. 17, 1875			8	281
8, 566	Same	Aug. 17, 1875			8	281
8, 586	Heald, Alfred, assignor to Hugh McCallum, Orlando Crease, Andrew J. Sloan, and William McCallum, Philadelphia, Pa. Carpet (Case B. Design) ..	Aug. 31, 1875			8	364
8, 587	Same	Aug. 31, 1875			8	364
8, 588	Same	Aug. 31, 1875			8	364
8, 589	Same	Aug. 31, 1875			8	364
158, 938	Heald, George W., assignor to self and William F. Morris, Baldwinsville, N. Y. Oscillating engine	Jan. 19, 1875	565	187	7	117
162, 918	Heald, Joseph, Chorley, England. End-gate for vehicles	May 4, 1875	164	54	7	768
159, 924	Heale, Henry W., and Emilius D. Gowan, Holloway, England. Cock or valve ..	Feb. 16, 1875	658	218	7	287
	Healy, Patrick J., et al. (See White, Hiram W., assignor.)					
	Hearle, Charles C. (See Murphy & Hearle.)					
164, 997	Hearn, Jacob H., Marshalltown, Iowa. Brick and soap press	June 29, 1875	1111	358	7	1114
164, 557	Hearn, William G., Dyer's Station, Tenn., assignor of two-thirds interest to James L. Bery and M. Hutchison. Whiffletree	June 15, 1875	682	221	7	1042
161, 333	Hearson, Frederick L., and Jacob H. Moseley, Brooklyn, N. Y. Apparatus for forming dental plates	Mar. 23, 1875	732	241	7	476
170, 474	Hearst, Alexander, Peoria, Ill. Corn planter	Nov. 30, 1875	1148	362	8	918
163, 928	Heath, Edwin S., North Hope, Pa. Clothes-drier	June 1, 1875	76	25	7	941
165, 672	Same	July 20, 1875	540	165	8	107
168, 252	Same	Sept. 28, 1875	835	266	8	547
164, 298	Heath, George, assignor of one-half interest to Albert Proudfoot, Seneca Falls, N. Y. Process for coating the interior of casks	June 8, 1875	435		7	1000
	Heath, Henry. (See Stokes, William, assignor.)					
	Heath, James W. (See Cook & Heath)					
	Heath, John, et al. (See McConway, William, assignor.)					
	Heath, John M. (See Allen, David, assignor.)					
162, 166	Heath, Laban, Boston, assignor of one-fourth interest to James Hill, Stoughton, Mass. Shoe	Apr. 20, 1875	536	176	7	660
159, 925	Heath, Robert F. S., Philadelphia, Pa. Canopy-frame	Feb. 16, 1875	659	218	7	288
159, 926	Heath, Robert F. S., Camden, N. J. Binding and wiring hat-frames	Feb. 16, 1875	660	218	7	288
	Heath, William H., et al. (See Berryman, Bayard A., assignor.)					
160, 056	Heaton, David, Providence, R. I. Setting instrument for attaching buttons, &c.	Feb. 23, 1875	799	263	7	314
168, 016	Same	Sept. 21, 1875	585	188	8	506
168, 331	Same	Oct. 5, 1875	14	5	8	566
168, 994	Same	Oct. 19, 1875	648	214	8	672
162, 381	Heaton, George S., Portsmouth, N. H. Machine for making box-toes for boots and shoes ..	Apr. 20, 1875	738	240	7	685
163, 489	Heaton, Horace L., Lilly Chapel, assignor of one-half interest to Benjamin F. Roberts, West Jefferson, Ohio. Nut-lock	May 18, 1875	730	233	7	866
171, 017	Heaton, Nathan C., assignor to Ward B. Snyder, New York, N. Y. Upright tubular boiler	Dec. 14, 1875	343	114	8	1003
161, 229	Hebard, Albert K., Cambridge, Mass. Piano-forte action	Mar. 23, 1875	915	300	7	499
160, 594	Hebdon, William, Boston, Mass. Cloth-pressing machine	Mar. 9, 1875	315	107	7	403
166, 366	Same	Aug. 3, 1875	162	50	8	222
168, 017	Same	Sept. 21, 1875	587	188	8	506
6, 437	Hebdon, William, Boston, Mass., assignor to self and Daniel Potter. Rotary cloth-measure	May 18, 1875	811	256	7	876
165, 576	Hebdon, William, Boston, assignor to self and A. Y. Convers, Taunton, Mass. Cloth steaming and smoothing and drying	July 13, 1875	435	132	8	77
162, 472	Hecht, Ansel, New York, N. Y. Crimping-machine	Apr. 27, 1875	846	272	7	707
8, 307	Hecht, Bernard, New York, N. Y. Fan	May 4, 1875			7	742
159, 821	Hedge, Frederick B., Greenport, N. Y. Garden-rake	Feb. 16, 1875	564	187	7	275
170, 367	Hedges, Isaac A., Saint Louis, Mo. Mill	Nov. 23, 1875	1029	323	8	894
	Hedman, Erie, et al. (See Tinnerholm, Charles J., assignor.)					
160, 595	Heebner, Josiah D., Norritonville, Pa. Governor for horse-power	Mar. 9, 1875	317	107	7	403
160, 905	Heergeist, Charles, assignor to Crane, Breed & Co., Cincinnati, Ohio. Carriage-top ..	Mar. 16, 1875	611	199	7	450
6, 614	Heermance, Charles W. and Louisa H., New York, N. Y. Strainer and funnel combined ..	Aug. 24, 1875	958	298	8	360
	Heermance, Louisa H. (See Heermance, Charles W. and Louisa H.)					
6, 615	Heffley, William H., Rochester, Ind., assignor by mesne assignments, to Williams, White & Co., Moline, Ill. Machine for turning axles	Aug. 24, 1875	958	299	8	360
158, 549	Hege, Constantine A., Salem, N. C. Plow	Apr. 27, 1875	912	292	7	715
166, 775	Heger, John F., Saint Louis, Mo. Top for vehicles	Aug. 17, 1875	577	177	8	298
169, 263	Hehr, John G., assignor of one-half interest to John G. Billing, South Bend, Ind. Automatic lamp-extinguisher	Oct. 26, 1875	917	297	8	717
170, 368	Heide, Henry, and Charles Wirtz, New York, N. Y. Preserve composition for macaroons ..	Nov. 23, 1875	1030		8	894
170, 731	Heiges, Jacob D., York, Pa. Vulcanizing apparatus	Dec. 7, 1875	72	22	8	960
167, 242	Heikel, Otto, Jersey City, N. J. Automatic telegraph-apparatus	Aug. 31, 1875	1048	326	8	380
163, 018	Same	Sept. 21, 1875	589	188	8	506
	Heilman, Jacob, jr. (See Heilman, Philipp and Jacob, jr.)					
167, 531	Heilman, Philipp and Jacob, jr., Tiffin, Ohio. Dumping-wagon	Sept. 7, 1875	135	41	8	425
167, 100	Heimbach, George W., Allentown, Pa. Window-screen	Aug. 24, 1875	901	281	8	352
	Hein, Ferdinand. (See Isidor & Hein.)					
	Same					
165, 328	Heindsmann, Ferdinand, New York, N. Y., assignor to Samuel S. White, Philadelphia, Pa. Dental vulcanizing apparatus	July 6, 1875	169	51	8	32
	Heine, August. (See Huntley, Holcomb & Heine.)					
166, 100	Heineman, Samuel, Baltimore, Md. Cigar-box	July 27, 1875	962	296	8	177
	Heineman, Asa. (See Aub, Philip D., assignor.)					
159, 413	Heinicke, Herrmann, assignor to E. W. Roff, Newark, N. J. Saw-set	Feb. 2, 1875	155	52	7	206

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163, 654	Heinig, Frederick E., Louisville, Ky. Dinner-bucket.	May 25, 1875	898	285	7	895
8, 073	Heinigke, Otto, New Utrecht, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.	(Design)			7	302
8, 074	Same.	Feb. 23, 1875			7	302
8, 075	Same.	Feb. 23, 1875			7	302
8, 076	Same.	Feb. 23, 1875			7	302
8, 077	Same.	Feb. 23, 1875			7	302
8, 078	Same.	Feb. 23, 1875			7	302
8, 079	Same.	Feb. 23, 1875			7	302
8, 080	Same.	Feb. 23, 1875			7	302
8, 081	Same.	Feb. 23, 1875			7	302
8, 082	Same.	Feb. 23, 1875			7	302
8, 083	Same.	Feb. 23, 1875			7	302
8, 084	Same.	Feb. 23, 1875			7	302
8, 085	Same.	Feb. 23, 1875			7	302
8, 086	Same.	Feb. 23, 1875			7	302
8, 087	Same.	Feb. 23, 1875			7	302
8, 088	Same.	Feb. 23, 1875			7	302
8, 089	Same.	Feb. 23, 1875			7	302
8, 090	Same.	Feb. 23, 1875			7	302
8, 091	Same.	Feb. 23, 1875			7	302
8, 092	Same.	Feb. 23, 1875			7	302
8, 093	Same.	Feb. 23, 1875			7	302
8, 094	Same.	Feb. 23, 1875			7	302
8, 095	Same.	Feb. 23, 1875			7	302
8, 096	Same.	Feb. 23, 1875			7	302
8, 097	Same.	Feb. 23, 1875			7	302
8, 098	Same.	Feb. 23, 1875			7	302
8, 099	Same.	Feb. 23, 1875			7	302
8, 100	Same.	Feb. 23, 1875			7	302
8, 101	Same.	Feb. 23, 1875			7	302
8, 102	Same.	Feb. 23, 1875			7	302
8, 103	Same.	Feb. 23, 1875			7	302
8, 104	Same.	Feb. 23, 1875			7	302
8, 105	Same.	Feb. 23, 1875			7	302
8, 106	Same.	Feb. 23, 1875			7	302
8, 499	Same.	July 27, 1875			8	148
8, 500	Same.	July 27, 1875			8	148
8, 501	Same.	July 27, 1875			8	148
8, 502	Same.	July 27, 1875			8	148
8, 503	Same.	July 27, 1875			8	148
8, 504	Same.	July 27, 1875			8	148
8, 505	Same.	July 27, 1875			8	148
8, 506	Same.	July 27, 1875			8	148
8, 507	Same.	July 27, 1875			8	148
8, 508	Same.	July 27, 1875			8	148
8, 509	Same.	July 27, 1875			8	148
8, 510	Same.	July 27, 1875			8	148
8, 511	Same.	July 27, 1875			8	148
8, 512	Same.	July 27, 1875			8	148
8, 513	Same.	July 27, 1875			8	148
8, 514	Same.	July 27, 1875			8	148
8, 515	Same.	July 27, 1875			8	148
8, 516	Same.	July 27, 1875			8	148
8, 517	Same.	July 27, 1875			8	148
8, 518	Same.	July 27, 1875			8	148
8, 519	Same.	July 27, 1875			8	148
8, 520	Same.	July 27, 1875			8	148
8, 521	Same.	July 27, 1875			8	148
8, 522	Same.	July 27, 1875			8	148
8, 523	Same.	July 27, 1875			8	148
8, 677	Same.	Oct. 5, 1875			8	560
8, 678	Same.	Oct. 5, 1875			8	560
8, 679	Same.	Oct. 5, 1875			8	560
6, 722	Heinz, Pierce & Munschauer. (See Seyfang, George, assignor.)					
162, 919	Heiser, Francis C., Brooklyn, N. Y., assignor to James M. Hopkins, Louisville, Ky. Measuring-taucet.	Nov. 2, 1875	276	89	8	771
	Heister, Charles, and John M. Deremer, Williamsport, Pa. Ice-cutting machine.	May 4, 1875	164	54	7	769
	Heister, Tobias S. (See Vedder & Heister.)	(Design)				
	Same. (See Vedder & Heister, assignors.)	(Design)				
	Same. (See Vedder, Heister & Ritchie.)	(Design)				
	Same. (See Vedder, Ritchie & Heister.)	(Design)				
	Same. (See Wells, Vedder & Heister.)	(Design)				
170, 557	Helbling, Michael, et al. (See Rieder, Albert, assignor.)					
161, 880	Held, Frederick E., Chicago, Ill. Billiard-table.	Nov. 30, 1875	1225	385	8	929
164, 451	Held, Frederick E., and Moses Bensinger, Chicago, Ill. Billiard-cushion.	Apr. 13, 1875	269	90	7	619
165, 577	Hellen, William F., assignor to self and Charles McCann, Baltimore, Md. Liquor tester, filterer, and emptier combined.	June 15, 1875	594	193	7	1030
164, 680	Hellenberg, Adolph, New York, N. Y. Neck-tie.	July 13, 1875	436	132	8	77
171, 128	Heller, Charles. Boot and shoe crimper.	June 22, 1875	801	262	7	1067
	Heller, Isidor, New York, N. Y. Brush-holder.	Dec. 14, 1875	451	148	8	1018
	Hellins, William. (See Tisdale, William S., assignor.)					
165, 927	Helm, Henry J., Allegheny, Pa. Roll for rolling round iron bars.	July 27, 1875	798	245	8	155
164, 682	Helm, John H., Allegheny, Pa. Machine for forming links.	June 22, 1875	803	263	7	1067
	Helme, Charles A. (See Schroyer, Joseph J., assignor.)					
165, 673	Helme, William, Philadelphia, Pa. Water-meter.	July 20, 1875	541	165	8	107
168, 641	Helmer, James L., Rome, N. Y. Water-wheel.	Oct. 11, 1875	324	105	8	618
168, 093	Hembold, Horace T., Philadelphia, Pa. Water-brush.	Sept. 28, 1875	688	217	8	527
160, 016	Hemingray, Robert, Covington, Ky. Paper-perforating machine.	Feb. 23, 1875	764	253	7	309
	Hemingway, Willis J., et al. (See Hastings, Glover S., assignor.)					
158, 708	Hemje, Charles, New York, N. Y. Center-board vessel.	Jan. 12, 1875	330	112	7	70
	Hemler, Michael. (See Walton & Hemler.)					
171, 281	Hemnich, Thomas F., assignor to self and Elias Fritz, sr., Reading, Pa. Hot-air furnace.	Dec. 21, 1875	622	204	8	1048
159, 573	Hempel, Herman, Syracuse, N. Y. Miter-box.	Feb. 9, 1875	323	106	7	236

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
171, 018	Hempstead, Beall, Little Rock, Ark. Life-preserver.....	Dec. 14, 1875	343	114	8	1003
165, 824	Henckler, William, and Heinrich A. Troegeler, Kirkwood, Mo. Egg-tester.....	July 20, 1875	687	210	8	127
6, 336	Henderson, Andrew A., Brooklyn, N. Y., assignor, by mesne assignments, to Walter A. Wood, and Walter A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Harvester-rake..... (Reissue.)	Mar. 16, 1875	689	{ 226 } { 227 }	{ 7 }	462
168, 489	Henderson, Cyrus, Westmoreland County, Pennsylvania. Nut-lock.....	Oct. 5, 1875	152	50	8	586
158, 374	Henderson, James T., Woodbury, Tenn. Combined revolving and drag harrow.....	Jan. 5, 1875	20	7	7	11
161, 882	Henderson, James T., Woodbury, Tenn. Cultivator.....	Apr. 13, 1875	270	90, 91	7	619
159, 179	Henderson, John C., San Francisco, Cal. Gas-machine.....	Jan. 26, 1875	809	265	7	157
164, 158	Henderson, John C., assignor to Carbureted Gas Machine Company, San Francisco, Cal. Carbureter.....	June 15, 1875	682	222	7	1042
161, 881	Henderson, John G., Keokuk, Iowa. Bucket for chain-pumps.....	Apr. 13, 1875	270	90	7	619
159, 511	Henderson, William M., Philadelphia, Pa. Hydraulic car-brake.....	Feb. 9, 1875	275	89	7	230
159, 512	Same..... Steam and air brake.....	Feb. 9, 1875	277	89	7	230
165, 415	Same..... Hose-coupling.....	July 13, 1875	284	84	8	54
168, 646	Hendig, Daniel, Napa City, Cal. Gang-plow.....	Oct. 11, 1875	328	107	8	618
161, 034	Hendrick, Henry H., et al. (See Nugent, Richard C., assignor.)					
160, 771	Hendrick, William, Modesto, Cal. Wagon-brake block.....	Mar. 23, 1875	733	241	7	476
168, 642	Hendricks, J. Moore, assignor to Philadelphia Disintegrating Mill and Manufacturing Company, Philadelphia, Pa. Disintegrating-mill.....	Mar. 16, 1875	499	162	7	435
	Same..... same.....	Oct. 11, 1875	325	105	8	618
	Hendrickson, Stephen C., et al. (See Pope, Frank L., assignor)..... (Reissue.)					
	Hendrie, Charles F. (See Bolthoff, Henry, assignor.)					
	Hendrix, Davis R. (See Teahl, John H., assignor.)					
165, 097	Hendry, John C., Boston, Mass. Vehicle-hub.....	June 29, 1875	1200	386	7	1126
161, 788	Hendryx & Bartholomew. (See Hendryx, Andrew B., assignor.)					
163, 772	Hendryx, Andrew B., assignor to Hendryx & Bartholomew, Ansonia, Conn. Bird-cage.....	Apr. 6, 1875	169	58	7	593
	Hendryx, Andrew B., assignor to Hendryx & Bartholomew, Ansonia, Conn. Mat for bird-cages.....	May 25, 1875	994	315	7	908
	Hendryx, James I. (See Crook, Charles, assignor)..... (Reissue.)					
161, 960	Henion, George J., administrator. (See Henion, John B.)					
	Henion, John B., deceased, by George J. Henion, administrator, and assignor to George J. Henion and Monroe M. Cady, Dubuque, Iowa. Bed-bottom.....	Apr. 13, 1875	336	113	7	627
166, 989	Henis, Charles F., Philadelphia, Pa. Pipe-coupling.....	Aug. 24, 1875	798	247	8	337
168, 359	Henkel, George H., and William C. Ward, Middletown, Ohio. Pruning implement.....	Nov. 2, 1875	37	11	8	740
166, 101	Hinkel, William H., Morton, Ind. Dumping-wagon.....	July 27, 1875	962	296	8	177
170, 853	Henkels, George J., Philadelphia, Pa. Sofa-bedstead.....	Dec. 7, 1875	176	60	8	974
163, 490	Henkle, Eos M., Springfield, Ill. Machine for boring hubs.....	May 18, 1875	730	233	7	866
163, 375	Henkle, Leonard, Rochester, N. Y. Wooden roof.....	May 18, 1875	628	201	7	852
169, 638	Henley, Henry W., New York, N. Y. Machine for mitering printer's leads and rules.....	Nov. 9, 1875	318	101	8	784
167, 243	Hennaman, William E., Baltimore, Md. Cigar-machine.....	Aug. 31, 1875	1050	{ 326 } { 327 }	{ 8 }	380
166, 102	Hennaman, William H., and William F. Shaw, jr., Baltimore, Md. Boiling-pot.....	July 27, 1875	963	297	8	177
170, 558	Hennessy, Patrick B., Hamilton, Canada. Time-lock.....	Nov. 30, 1875	1225	386	8	929
	Henning, Benjamin S., et al. (See Dewitt, James, assignor.)					
169, 639	Henning, George C., Washington, D. C. Cartridge-belt.....	Nov. 9, 1875	319	102	8	784
164, 681	Henrich, John, Buffalo, N. Y. Street-lamp.....	June 22, 1875	802	263	7	1067
160, 429	Henry, Frank, Philadelphia, Pa. Hand hem-folder.....	Mar. 2, 1875	154	54	7	370
163, 491	Same..... Sewing-machine attachment.....	May 18, 1875	731	233	7	866
104, 559	Henry, George, Lennoxville, Canada. Feed-water regulator.....	June 15, 1875	684	222	7	1042
165, 928	Same..... same.....	July 27, 1875	799	245	8	155
	Henry, Greenburg R. (See Foote & Henry.)					
	Henry, Jacob. (See Sandford, Oliver P., assignor.)					
158, 939	Henry, John J., Baltimore, Md. Device for forming shoe-sole tips.....	Jan. 19, 1875	566	188	7	117
162, 920	Henry, Levi J., San Francisco, Cal. Ventilating, purifying, and cooling the atmosphere of mines.....	May 4, 1875	165	54	7	769
160, 188	Henry, Samuel B., Farmwell, Va. Horseshoe.....	Feb. 23, 1875	908	299	7	329
160, 521	Henry, Victor, Cedar Rapids, Iowa. Sun-protector for car-horses.....	Mar. 9, 1875	253	86	7	393
	Henshaw, George W. (See Walker, Robert, assignor.)					
	Henslee, Adam C. (See Petree & Henslee.)					
164, 085	Henson, William A., assignor of one-half interest to James P. Snoddy, Dyer's Station, Tenn. Hame.....	June 8, 1875	241	83	7	975
8, 269	Henszey, Alexander J. D., Ashland, N. J. Pipe..... (Design.)	Apr. 13, 1875			7	610
	Hentschel, Emil, et al. (See Muther & Hentschel.)					
161, 682	Hepburn, Lewis L., Ilion, N. Y. Cartridge-loading implement.....	Apr. 6, 1875	80	28	7	580
162, 473	Same..... Gun-lock.....	Apr. 27, 1875	848	272	7	707
159, 574	Hepp, Valentine, Chicago, Ill. Sand-paperying machine.....	Feb. 9, 1875	324	106	7	237
160, 522	Hepworth, Samuel S., New York, N. Y. Driving-gear for shafting.....	Mar. 9, 1875	253	86	7	393
158, 796	Herald, John, and Edward S. Rumsey, Binghamton, N. Y. Door-hanger.....	Jan. 19, 1875	431	144	7	100
	Herchelrode, Christian. (See Hill, John W., assignor.)					
	Herchelrode, Henry C. (See Aldrich, Wales, assignor.)					
	Herckelrath, Henry. (See Hackert, Siegfried L., assignor.)					
	Hereford, John B. (See Varney, John W., assignor.)					
167, 172	Herget, John, Saint Louis, Mo. Sheet-metal can.....	Aug. 31, 1875	991	308	8	371
163, 773	Hermance, Charles W., deceased, by Lydia W. Hermance and J. D. Mott, administrators, Moses Kill, N. Y. Reciprocating steam-engine.....	May 25, 1875	994	315	7	908
	Hermance, Lydia W., administratrix. (See Hermance, Charles W.)					
171, 129	Hermance, Martin, Brooklyn, N. Y. Tack-extractor.....	Dec. 14, 1875	452	148	8	1018
164, 735	Hermance, Richard M., Half Moon, assignor of one-half interest to Andrew B. Fales, Troy, N. Y. Reservoir cooking-stove.....	June 22, 1875	854	277	7	1074
166, 367	Hermann, August, and Warren H. Taylor, Stamford, Conn. Anode for electroplating with nickel.....	Oct. 5, 1875	164	50	8	223
168, 490	Hern, David W., and Paul Richards, Minneapolis, Minn. Wagon-seat.....	Mar. 23, 1875	152	50	8	587
161, 230	Herndon, George P., Tupelo, Miss. Churn.....	Aug. 3, 1875	917	300	7	500
	Herr, Abraham H., et al. (See Reynolds, Ransom S., assignor.)..... (Reissue.)					
163, 774	Herr, Henry S., Indianapolis, Ind. Addressing-machine.....	May 25, 1875	995	316	7	908
170, 559	Herr, Simon, Bluffton, Ohio. Pad-saddle.....	Nov. 30, 1875	1237	386	8	929
166, 368	Herrick, Charles F., Independence, Iowa. Reversible latch for cupboards, &c.....	Aug. 3, 1875	164	50	8	223
165, 731	Herrick, George, assignor of one-half interest to Frank A. Blood and Herberon Corning, Kilbourn City, Wis. Process for manufacturing leather.....	July 20, 1875	591		8	114
6, 723	Herrick, George W., assignor to Detroit Stove Works, Detroit, Mich. Stove..... (Reissue.)	Nov. 2, 1875	277	90	8	771
159, 670	Same..... Heating stoves.....	Feb. 9, 1875	407	135	7	248
160, 906	Same..... Fire-back for stove.....	Mar. 16, 1875	611	199	7	450
163, 775	Same..... Stove.....	May 25, 1875	996	316	7	908
	Herrick, Henry, et al. (See Blood & Topping, assignors.)					
165, 231	Herrick, Oscar D., Ottumwa, Iowa. Knuckle-coupling for tumbling-shafts.....	July 6, 1875	82	24, 25	8	20

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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7, 994	Herriet, Julius, assignor to David W. Bruce, New York, N. Y. Font of printing-types. (Case A. Design).	Jan. 12, 1875			7	47
7, 995	Same. same. (Design).	Jan. 12, 1875			7	47
8, 454	Same. Printing-type. (Design).	July 6, 1875			8	4
6, 514	Herring, Calvin L., Saint Louis, Mo. Gas-regulator. (Extension).	Jan. 21, 1875			7	222
159, 758	Herrington, Ephraim F., West Hoosick, N. Y. Harvester-pitman guide and holder. (Re-issue).	June 29, 1875	1245	400	7	1133
163, 929	Same. Journal-bearings for harvesters. (Design).	Feb. 16, 1875	505	169	7	267
162, 748	Herriott, William J., Boston, Mass. Gas-burner. (Design).	June 1, 1875	76	25	7	941
6, 646	Herrman and Herchelrode Manufacturing Company. (See Hill, John W., assignor.)					
162, 748	Herrmann, Louis, Dresden, Germany. Floor for malt-kilns. (Design).	May 4, 1875	11	5	7	748
165, 825	Herron, James P., Washington, D. C. Process of making paper-pulp from palms. (Re-issue).	Sept. 14, 1875	413		8	472
164, 452	Herschaff, Christopher, and James Lawrence, Brooklyn, N. Y. Hemp and flax machine.	July 20, 1875	688	210	8	127
171, 232	Herschaff, Christopher, Brooklyn, N. Y. Regulator for hemp-spinning machines.	June 15, 1875	595	193	7	1030
6, 367	Hersey, Charles H., Boston, Mass. Press. (Design).	Dec. 21, 1875	623	204	8	1048
169, 700	Hersey, Edmund, Hingham, Mass. Machine for cutting the heads and bottoms of wooden boxes. (Reissue).	Apr. 6, 1875	235	78	7	602
6, 589	Same. Machine for making heads of wooden boxes. (Design).	Nov. 9, 1875	382	120	8	793
166, 369	Hershey, Benjamin, Erie, Pa., assignor, by mesne assignments, to Pittsburg Chain and Car Link Manufacturing Company. Machine for welding chain-links. (Reissue).	Aug. 10, 1875	477	{ 146 } { 147 }	{ 8 }	274
166, 370	Same. same. (Design).	Aug. 3, 1875	165	51	8	223
166, 371	Same. same. (Design).	Aug. 3, 1875	166	51	8	223
166, 372	Same. same. (Design).	Aug. 3, 1875	167	51	8	223
166, 373	Same. same. (Design).	Aug. 3, 1875	169	51	8	223
166, 374	Same. same. (Design).	Aug. 3, 1875	171	52	8	223
166, 375	Same. Machine for bending chain-links. (Design).	Aug. 3, 1875	173	52, 53	8	224
166, 376	Same. Machine for welding chain-links. (Design).	Aug. 3, 1875	176	53	8	224
166, 377	Same. same. (Design).	Aug. 3, 1875	178	53, 54	8	224
8, 331	Same. same. (Design).	Aug. 3, 1875	179	54	8	224
6, 328	Hershey, Christian H., Philadelphia, Pa. Charm-medal. (Design).	May 18, 1875			7	837
8, 605	Hersome, Calvin. (See Perley, Charles, assignor.) (Reissue).					
8, 694	Same. (See Powell, Thomas, assignor.) (Reissue).					
8, 695	Hersome, Calvin, Boston, Mass. Gaiter-boot. (Design).	Mar. 9, 1875	459	151	7	422
8, 696	Herter, Christian, New York, N. Y. Gasalier. (Design).	Sept. 7, 1875			8	403
8, 697	Same. Bracket. (Design).	Oct. 5, 1875			8	561
8, 698	Same. same. (Design).	Oct. 5, 1875			8	561
8, 699	Same. Gasalier. (Design).	Oct. 5, 1875			8	561
8, 700	Same. same. (Design).	Oct. 5, 1875			8	561
8, 701	Same. Chandelier. (Design).	Oct. 5, 1875			8	561
8, 706	Same. Newel-light. (Design).	Oct. 5, 1875			8	561
8, 707	Same. Lamp. (Design).	Oct. 5, 1875			8	561
8, 748	Same. Lantern. (Design).	Oct. 11, 1875			8	600
167, 244	Same. Newel-light. (Design).	Oct. 11, 1875			8	600
168, 995	Same. Gasalier. (Design).	Oct. 26, 1875			8	689
166, 776	Hervey, Henry C., and George H. Abrams, Athens, N. Y. Car-coupling. (Design).	Aug. 31, 1875	1052	327	8	380
159, 671	Herzig, Edward, Jersey City Heights, N. J. Scroll-sawing machine. (Design).	Oct. 19, 1875	649	214	8	672
163, 996	Herzog, August, Guttenberg, N. J. Game-board. (Design).	Aug. 17, 1875	578	178	8	298
162, 332	Herzog, Ignatz, and Richard Koch, New York, N. Y. Lid for retorts. (Design).	Feb. 9, 1875	404	135	7	249
163, 655	Hess, Abraham W., Chicago, Ill. Platform-scales. (Design).	Oct. 19, 1875	650	214	8	672
161, 035	Hess, Jacob F., assignor to self and Leonard Hess, Massillon, Ohio. Rain-water cut-off. (Design).	Apr. 20, 1875	738	240	7	685
163, 195	Hess, Jacob F. and Lenerd, Massillon, Ohio. Eaves-trough hanger. (Design).	May 25, 1875	898	285	7	895
163, 195	Hess, Lenerd. (See Hess, Jacob F. and Lenerd.)					
163, 195	Hess, Leonard. (See Hess, Jacob F., assignor.)					
163, 195	Hesse, Frederick G., Oakland, Cal. Water-wheel and hydraulic governor. (Design).	Mar. 23, 1875	734	{ 241 } { 242 }	{ 7 }	476
163, 195	Hester, Myron, Grand Rapids, Mich. Buckle. (Design).	May 11, 1875	446	144	7	812
162, 921	Heston, David, Philadelphia, Pa. Shaving-mug. (Design).	May 4, 1875	166	55	7	769
170, 560	Heston, William, assignor to Ferdinand Schumacher, Akron, Ohio. Oatmeal-machine. (Design).	Nov. 30, 1875	1228	386	8	929
163, 776	Hetzl, Margaret. (See Georgia, Elijah B., assignor.)					
163, 776	Heuber, Francis J. (See Little & Heuber.)					
163, 776	Heusch, Rudolph. (See Beyer & Heusch.)					
164, 736	Heusch, Rudolph, and Louis Beyer, assignors to Robert C. Hewett and George Follans- } bee, Washington, D. C. Machine for setting saws. (Design).	May 25, 1875	998	{ 316 } { 317 }	{ 7 }	908
171, 566	Hewes, Joseph L., deceased, by Margaret V. Hewes, administratrix, Newark, N. J. Valve-gear for steam-engines. (Design).	June 22, 1875	856	278	7	1074
162, 474	Hewes, Margaret V., administratrix. (See Hewes, Joseph L.)					
8, 010	Hewett, Corydon P., Kingston, Wis. Yielding teeth for seeders and cultivators. (Design).	Dec. 28, 1875	899	294	8	1094
162, 922	Hewett, Robert C., et al. (See Heusch & Beyer, assignors.)					
162, 474	Hewitt, Charles B. (See Carter & Hewitt.)					
8, 010	Hewitt, George S., Johnstown, N. Y. Manufacture of gloves. (Design).	Apr. 27, 1875	848	272	7	707
162, 922	Hewitt, Richard B., Philadelphia, Pa. Street-lantern and post. (Design).	Jan. 19, 1875			7	93
171, 224	Hewson, Robert, San Francisco, Cal. Automatic air-blast for gas-machines. (Design).	May 4, 1875	167	55	7	769
158, 414	Hey, Emanuel. (See Wild & Hay.)					
169, 440	Heyde, Wilhelm. (See Ramage, Charles E., assignor.)					
8, 240	Heydemann, Robert, Krebsow, and August Klinkmann, Greifswalde, Prussia. Potato-digger. (Design).	Dec. 21, 1875	570	187	8	1041
8, 241	Heydrich, Gustav, New Ulm, Minn. Propelling-wheel for canal-boats. (Design).	Jan. 5, 1875	55	19	7	17
8, 242	Same. Millstone-dressing machine. (Design).	Nov. 2, 1875	109	34	8	750
8, 243	Heyer, Carl E., Boston, Mass. Font of printing-types. (Design).	Mar. 30, 1875			7	516
8, 244	Same. same. (Design).	Mar. 30, 1875			7	516
8, 245	Same. same. (Design).	Mar. 30, 1875			7	516
8, 246	Same. same. (Design).	Mar. 30, 1875			7	516
8, 247	Same. same. (Design).	Mar. 30, 1875			7	516
8, 248	Same. same. (Design).	Mar. 30, 1875			7	516
8, 249	Same. same. (Design).	Mar. 30, 1875			7	516
8, 250	Same. same. (Design).	Mar. 30, 1875			7	516
8, 251	Same. same. (Design).	Mar. 30, 1875			7	516
8, 252	Same. same. (Design).	Mar. 30, 1875			7	516
8, 253	Same. same. (Design).	Mar. 30, 1875			7	516
8, 254	Same. same. (Design).	Mar. 30, 1875			7	516
8, 255	Same. same. (Design).	Mar. 30, 1875			7	516
8, 256	Same. same. (Design).	Mar. 30, 1875			7	516
8, 257	Same. same. (Design).	Mar. 30, 1875			7	516
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8, 260	Same. same. (Design).	Mar. 30, 1875			7	516
8, 261	Same. same. (Design).	Mar. 30, 1875			7	516
8, 262	Same. same. (Design).	Mar. 30, 1875			7	516
8, 263	Same. same. (Design).	Mar. 30, 1875			7	516
8, 264	Same. same. (Design).	Mar. 30, 1875			7	516
8, 265	Same. same. (Design).	Mar. 30, 1875			7	516
8, 266	Same. same. (Design).	Mar. 30, 1875			7	516
8, 267	Same. same. (Design).	Mar. 30, 1875			7	516
8, 268	Same. same. (Design).	Mar. 30, 1875			7	516
8, 269	Same. same. (Design).	Mar. 30, 1875			7	516
8, 270	Same. same. (Design).	Mar. 30, 1875			7	516
8, 271	Same. same. (Design).	Mar. 30, 1875			7	516
8, 272	Same. same. (Design).	Mar. 30, 1875			7	516
8, 273	Same. same. (Design).	Mar. 30, 1875			7	516
8, 274	Same. same. (Design).	Mar. 30, 1875			7	516
8, 275	Same. same. (Design).	Mar. 30, 1875			7	516
8, 276	Same. same. (Design).	Mar. 30, 1875			7	516
8, 277	Same. same. (Design).	Mar. 30, 1875			7	516
8, 278	Same. same. (Design).	Mar. 30, 1875			7	516
8, 279	Same. same. (Design).	Mar. 30, 1875			7	516
8, 280	Same. same. (Design).	Mar. 30, 1875			7	516
8, 281	Same. same. (Design).	Mar. 30, 1875			7	516
8, 282	Same. same. (Design).	Mar. 30, 1875			7	516
8, 283	Same. same. (Design).	Mar. 30, 1875			7	516
8, 284	Same. same. (Design).	Mar. 30, 1875			7	516
8, 285	Same. same. (Design).	Mar. 30, 1875			7	516
8, 286	Same. same. (Design).	Mar. 30, 1875			7	516
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8, 292	Same. same. (Design).	Mar. 30, 1875			7	516
8, 293	Same. same. (Design).	Mar. 30, 1875			7	516
8, 294	Same. same. (Design).	Mar. 30, 1875			7	516
8, 295	Same. same. (Design).	Mar. 30, 1875			7	516
8, 296	Same. same. (Design).	Mar. 30, 1875			7	516
8, 297	Same. same. (Design).	Mar. 30, 1875			7	516
8, 298	Same. same. (Design).	Mar. 30, 1875			7	516
8, 299	Same. same. (Design).	Mar. 30, 1875			7	516
8, 300	Same. same. (Design).	Mar. 30, 1875			7	516
8, 301	Same. same. (Design).	Mar. 30, 1875			7	516
8, 302	Same. same. (Design).	Mar. 30, 1875			7	516
8, 303	Same. same. (Design).	Mar. 30, 1875			7	516
8, 304	Same. same. (Design).	Mar. 30, 1875			7	516
8, 305	Same. same. (Design).	Mar. 30, 1875			7	516
8, 306	Same. same. (Design).	Mar. 30, 1875			7	516
8, 307	Same. same. (Design).	Mar. 30, 1875			7	516
8, 308	Same. same. (Design).	Mar. 30, 1875			7	516
8, 309	Same. same. (Design).	Mar. 30, 1875			7	516
8, 310	Same. same. (Design).	Mar. 30, 1875			7	516
8, 311	Same. same. (Design).	Mar. 30, 1875			7	516
8, 312	Same. same. (Design).	Mar. 30, 1875			7	516
8, 313	Same. same. (Design).	Mar. 30, 1875			7	516
8, 314	Same. same. (Design).	Mar. 30, 1875			7	516
8, 315	Same. same. (Design).	Mar. 30, 1875			7	516
8, 316	Same. same. (Design).	Mar. 30, 1875			7	516
8, 317	Same. same. (Design).	Mar. 30, 1875			7	516
8, 318	Same. same. (Design).	Mar. 30, 1875			7	516
8, 319	Same. same. (Design).	Mar. 30, 1875			7	516
8, 320	Same. same. (Design).	Mar. 30, 1875			7	516
8, 321	Same. same. (Design).	Mar. 30, 1875			7	516
8, 322	Same. same. (Design).	Mar. 30, 1875			7	516
8, 323	Same. same. (Design).	Mar. 30, 1875			7	516
8, 324	Same. same. (Design).	Mar. 30, 1875			7	516
8, 325	Same. same. (Design).	Mar. 30, 1875			7	516
8, 326	Same. same. (Design).	Mar. 30, 1875			7	516
8, 327	Same. same. (Design).	Mar. 30, 1875			7	516
8, 328	Same. same. (Design).	Mar. 30, 1875			7	516
8, 329	Same. same. (Design).	Mar. 30, 1875			7	516
8, 330	Same. same. (Design).	Mar. 30, 1875			7	516
8, 331	Same. same. (Design).	Mar. 30, 1875			7	516
8, 332	Same. same. (Design).	Mar. 30, 1875			7	516
8, 333	Same. same. (Design).	Mar. 30, 1875			7	516
8, 334	Same. same. (Design).	Mar. 30, 1875			7	516
8, 335	Same. same. (Design).	Mar. 30, 1875			7	516
8, 336	Same. same. (Design).	Mar. 30, 1875			7	516
8, 337	Same. same. (Design).	Mar. 30, 1875			7	516
8, 338	Same. same. (Design).	Mar. 30, 1875				

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
166, 103	Heysinger, Isaac W., assignor of one-half interest to Stewart & Mattson, Philadelphia, Pa. Fruit-press	July 27, 1875	964	297	8	177
	Heywood Bros. & Co. (See Teal, Daniel E., assignor) (Reissue.)					
	Heywood Chair Company, Walter. (See Rice, Aaron, assignor.)					
170, 561	Heywood, Levi, Gardner, Mass. Tilting chair	Nov. 30, 1875	1228	387	8	929
	Hiatt, William W. (See Cooper & Hiatt.)					
	Hibbard, S. R. (See Hibbard, Zebina M., assignor.)					
164, 171	Hibbard, Zebina M., Freeport, assignor of one-half interest to S. R. Hibbard, Chicago, Ill. Ironing-table	June 8, 1875	316	107	7	985
	Hibbets, Francis M. (See McGugin, Lybarger, & Hibbets.)					
163, 196	Hick, Theobald, and George W. Weatherwax, Saint Joseph, Mich. Powder and shot charger	May 11, 1875	446	144	7	812
160, 430	Hickenlooper, Andrew, Cincinnati, Ohio. Gas-regulator	Mar. 2, 1875	154	54	7	370
	Hickey, Patrick, et al. (See Gordon, William J., assignor.)					
	Hickey, Peter J. (See Norris & Hickey.)					
165, 446	Hickman, Elijah, Red Bluff, Cal. Floor-clamp	July 18, 1875	316	93	8	59
160, 431	Hickman, Francis, Reading, Pa. Detonating railway-signal	Mar. 2, 1875	155	54	7	371
167, 098	Same. Folding chair	Aug. 24, 1875	899	280	8	351
167, 532	Same. Detonating railway-signal	Sept. 7, 1875	135	41	8	425
170, 562	Same. Folding chair	Nov. 30, 1875	1229	387	8	929
158, 376	Hickman, Francis, Reading, assignor to Samuel S. White, Philadelphia, Pa. Rubber-dam clamp	Jan. 5, 1875	22	8	7	11
156, 377	Same. Burring and finishing tools for dental engines	Jan. 5, 1875	22	8	7	12
167, 336	Hickman, Francis, Reading, and Gibbons G. Hickman, Philadelphia, Pa. Manufacture of dental plates	Aug. 31, 1875	1129	355	8	391
	Hickman, Gibbons G. (See Hickman, Francis, and Gibbons, G.)					
163, 777	Hickok, William O., Harrisburgh, Pa. Paper-ruling machine	May 25, 1875	999	317	6	908
167, 245	Hickox, Henry C., Philadelphia, Pa. Buckle-making machine	Aug. 31, 1875	1053	327	8	380
	Hickox, Silas W., et al. (See Kimble, Smith W., assignor.)					
	Hicks & Wolfe. (See Wolfe & Ritchie, assignors) (Design.)					
	Same. (See Wolfe, Vedder & Ritchie, assignors) (Design.)					
164, 299	Hicks, Isaac P., Pine Plains, N. Y. Sewing-machine	June 8, 1875	436	144	7	1000
168, 019	Same. Scroll-sawing machine	Sept. 21, 1875	590	189	8	506
	Hicks, John F. (See Ford & Hicks.)					
	Hicks, Martin S. (See Spencer, Abel, assignor.)					
160, 097	Hicks, Michael, and Thomas Smith, New York, N. Y. Car-lamp	Feb. 23, 1875	833	274	7	318
165, 329	Hicks, Oliver H., Baltimore, Md. Match-box	July 6, 1875	170	52	8	32
	Hickson, Stephen. (See Varley, John, assignor.)					
	Hiddleston, James V. (See White, Henry J., assignor.)					
	Hieber, John D., et al. (See Fitch & Shafer, assignors) (Reissue.)					
165, 826	Hien, Phillip, and John Koch, Rock Island, Ill. Car-coupling	July 20, 1875	689	210	8	127
158, 940	Higbee, Charles, Philadelphia, Pa. Guide for stage-scenery	Jan. 19, 1875	567	188	7	117
167, 666	Higbee, Edwin W., Northampton, Mass. Speculum	Sept. 14, 1875	266	83	8	451
	Higbee, E. W. (See Harding & Higbee.)					
158, 491	Higby, Luther E., Belleville, N. J. Rope and cordage machine	Jan. 5, 1875	125	42	7	26
	Higgins & Co., E. S. (See Fisher, John, assignor.) (Design.)					
169, 541	Higgins, Charles M., assignor to Kenan O'Brien, Brooklyn, N. Y. Leather-screw-pegging machine	Nov. 2, 1875	194	66, 67	8	761
161, 613	Higgins, Henry, and Thomas S. Whitworth, Manchester, Great Britain. Carding-machine	Apr. 6, 1875	21	8, 9	7	571
158, 709	Higgins, Rozander S., Fairfield, Ill. Cultivator	Jan. 12, 1875	331	113	7	71
166, 378	Higgins, Sylvester W., Saint Louis, assignor of three-fourths interest to James A. Grea-son and Joseph R. Meeker, Saint Louis, Mo. Auger	Aug. 3, 1875	180	54	8	224
	Higgins, Van H. (See Kley & Higgins.)					
168, 565	Higgins, Walter B., San Francisco, Cal. Sewing-machine treadle	Oct. 11, 1875	250	82	8	607
	Higgins, William. (See Perkins, Charles B., assignor.)					
159, 672	Higgins, William S., Orville, Cal. Carriage-spring	Feb. 9, 1875	409	136	7	249
161, 120	High, A. Luquince, Mount Holly, N. J. Photographic-picture exhibitor	Mar. 23, 1875	817	268	7	486
169, 264	High, Franklin G., Kansas City, Mo. Cake-pan	Oct. 26, 1875	918	298	8	717
169, 808	Hight, Henry A., sr., Fort Wayne, Ind. Vehicle-spring	Nov. 9, 1875	492	155	8	806
161, 511	Higley, Eben N., Great Falls, N. H. Machine for constructing boot and shoe heels	Mar. 30, 1875	1208	388	7	544
160, 267	Hilbert, Charles, Sing Sing, N. Y. Furnace for burning petroleum	Mar. 2, 1875	11	5	7	350
171, 283	Hilbert, Gustavus, Meadville, Pa. Stove-pipe shelf	Dec. 21, 1875	625	204	8	1048
164, 683	Hildreth, Bradley G., Wilmington, Del. Step-ladder	June 22, 1875	804	263	7	1067
166, 698	Hildreth, Charles H., Chicago, Ill. Attachment for stand rocking-chairs	Aug. 17, 1875	506	155	8	287
158, 841	Hildreth, Mary E., Mount Pleasant, Iowa. Sad-iron holder	Jan. 19, 1875	472	158	7	105
	Hiler, Joseph H. (See Barrett, John, assignor.)					
160, 907	Hiler, Selah, New York, assignor to William I. Martin, Brooklyn, N. Y. Knob-rose	Mar. 16, 1875	612	200	7	450
160, 908	Same. Knob for doors	Mar. 16, 1875	613	200	7	450
	Hill, A. A. (See Price, Benjamin, assignor.)					
	Same. (See Price, Benjamin F., assignor.)					
163, 197	Hill, Benjamin B., Springfield, Mass. Hand-stamp	May 11, 1875	447	145	7	813
	Hill, Benjamin F. (See Allen, William K., assignor.)					
	Hill, Charles F. (See Hill, George D., assignor.)					
162, 923	Hill, Charles F., Baltimore, Md. Boot and shoe	May 4, 1875	168	55	7	769
165, 330	Same. Last for boots and shoes	July 6, 1875	170	52	8	32
6, 281	Hill, Charles F., assignor to self and George D. Hill, Baltimore, Md. Shoe. (Reissue.)	Feb. 9, 1875	473	159	7	258
167, 762	Same. Insole for boots and shoes	Sept. 14, 1875	356	112	8	464
	Hill, Cyrus. (See Batchelor, Joseph M., assignor.)					
	Hill, David W. (See Viall, Townsend & Hill.)					
6, 576	Hill, Edward A., Chicago, Ill. Hotel annunciator and fire-alarm. (Reissue.)	Aug. 3, 1875	256	77	8	235
6, 577	Same. same. (Reissue.)	Aug. 3, 1875	258	77, 78	8	235
165, 578	Hill, Edward A., Chicago, Ill., and Herman J. Schneider, Philadelphia, Pa., assignors to Edward A. Hill, Chicago, Ill. Pocket telegraph-relay	July 13, 1875	437	132	8	77
167, 173	Hill, Edward A., Chicago, Ill. Galvanic battery	Aug. 31, 1875	992	308	8	372
158, 710	Hill, Edwin A., East Cambridge, Mass. Variable exhaust for locomotive and other en-gines	Jan. 12, 1875	333	113	7	71
159, 673	Hill, Edwin S., Waterbury, Conn. Sewing-machine	Feb. 9, 1875	410	136	7	249
170, 262	Hill, Frank A., San Leandro, Cal. Gang-plow	Nov. 23, 1875	942	294	8	881
167, 246	Hill, Frederick F., Essex, Conn. Suspension book-rack	Aug. 31, 1875	1053	327	8	380
	Hill, George D. (See Hill, Charles F., assignor.)					
	Same. same. (Reissue.)					
159, 674	Hill, George D., assignor to self and Charles F. Hill, Baltimore, Md. Shoe	Feb. 9, 1875	411	136	7	249
	Hill, George J. (See Ruger & Hill.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 579	Hill, George J., assignor of one-half interest to James W. and Augustus Ruger, Buffalo, N. Y. Fare-box.	July 13, 1875	437	132	8	77
170, 170	Hill, George J., and Augustus Ruger, Buffalo, N. Y., assignor of part interest to James W. Ruger. Conductor's punch, alarm, and registering implement.	Nov. 23, 1875	859	269	8	870
168, 332	Hill, Homer C., Clinton, Ill. Clothes-pin.	Oct. 5, 1875	15	6	8	566
171, 019	Hill, Hugh W., Decatur, Ill. Corn-husking implement.	Dec. 14, 1875	344	115	8	1003
	Hill, James. (See Heath, Laban, assignor.)					
	Hill, James T. (See Gaither & Hill.)					
170, 263	Hill, John J., Hayden's Ferry, Ariz. Submerged tide and current wheel.	Nov. 23, 1875	943	295	8	881
166, 006	Hill, John N., assignor to Charles G. Pressey, Concord, N. H. Corn-stalk cutter.	July 27, 1875	872	268	8	164
169, 542	Hill, John R., Bloomfield, Iowa. Hay-rickking apparatus.	Nov. 2, 1875	202	67	8	762
165, 331	Hill, John R., Republic, assignor of one-half interest to Joseph M. Darke, Fostoria, Ohio. Vehicle-seat.	July 6, 1875	171	52	8	32
170, 370	Hill, John W., Dayton, Ohio. Cross-head.	Nov. 23, 1875	1031	324	8	894
159, 675	Hill, John W., assignor of one-half interest to Herrman and Herchelrode Manufacturing Company, Dayton, Ohio. Piston-packing.	Feb. 9, 1875	411	136	7	249
160, 189	Hill, John W., assignor of one-half interest to Christian Herchelrode, Dayton, Ohio. Frame for portable steam-engines.	Feb. 23, 1875	909	299	7	330
161, 683	Hill, Jonathan, Stanhope, N. J. Twine-holder.	Apr. 6, 1875	82	29	7	581
165, 674	Hill, Joseph P., Barre, Vt. Clothes-drier.	July 20, 1875	542	165	8	107
8, 606	Hill, Judson E., and William H. Deacon, assignors to John Bromley & Sons, Philadelphia, Pa. Carpet. (Design.)	Sept. 7, 1875			8	403
160, 673	Hill, Nathan H., assignor to John K. Coolidge, Nathan H. Hill, and Edwin C. Coolidge, Cincinnati, Ohio. Reclining-chair.	Mar. 9, 1875	381	129	7	413
	Hill, Philip. (See Cunningham & Hill.) (Design.)					
168, 491	Hill, Samuel L., Brooklyn, N. Y. Thill-coupling.	Oct. 5, 1875	153	50	8	587
6, 344	Hill, Thomas, Augusta, Ga. Trunnion for steam engines and calenders. (Reissue.)	Mar. 23, 1875	1010	329	7	511
163, 376	Hill, Walter N., Newport, R. I. Machine for making liquid carbonic acid.	May 18, 1875	629	201	7	852
167, 611	Hill, Warren S., Boston, Mass. Heat-regulator.	Sept. 14, 1875	219	68	8	444
169, 170	Hillard, James P., Fall River, Mass. Spinning-machine.	Oct. 26, 1875	834	271	8	706
164, 737	Hillegass, George, Philadelphia, Pa. Hydrant.	June 22, 1875	856	278	7	1074
161, 789	Hiller, Gottlob, New York, N. Y. Railway-car brake.	Apr. 6, 1875	170	58	7	593
	Hillhouse, John T. (See Williams & Hillhouse.)					
169, 904	Hilliker, Henry, Saint Louis, Mo., assignor of one-half interest to William C. Warren. Adjustable scaffold.	Nov. 16, 1875	595	185	8	827
163, 656	Hillis, William D., Elgin, Ill. Device for swaging bullets.	May 25, 1875	899	285	7	895
	Hillman, John J. (See Rankin, Edwin D., assignor.)					
159, 676	Hills, George, Plainville, Conn. Floral stand for windows.	Feb. 9, 1875	412	137	7	249
162, 649	Hills, Lewis M., New Haven, and Edwin Allen, Norwich, Conn.; said Allen assignor to said Hills. Wood-planing machine.	Apr. 27, 1875	995	320	7	725
	Hillson, James D. (See Miller & Hillson.)					
158, 550	Hillson, William E., Oshkosh, Wis. Washing-machine.	Apr. 27, 1875	912	292	7	715
8, 657	Hilson, Max, New York, N. Y. Cigar-box. (Design.)	Sept. 21, 1875			8	475
168, 566	Hilton, Robert, Cincinnati, Ohio. Trunk-fastening.	Oct. 11, 1875	251	82	8	607
161, 512	Hilts, Anthony, Springdale, Ohio. Field-roller.	Mar. 30, 1875	1209	388	7	545
	Himmelreich, Peter W., et al. (See Row, John W., assignor.)					
163, 070	Himelrich, William, and Jacob Smith, Franklin Township, Ohio. Buckle.	May 11, 1875	330	107	7	798
163, 868	Himmer, Vitalis, New York, N. Y. Pendulum-clock.	June 1, 1875	29	9	7	934
	Himrod, Peter, et al. (See Brewster, John C., assignor.) (Reissue.)					
162, 650	Hincheliff, James, Bromley, England, assignor to R. Hoe & Co., New York, N. Y. Printing-press.	Apr. 27, 1875	997	320	7	726
159, 759	Hinckley, Lafayette, Virginia City, Nev. Amalgamator.	Feb. 16, 1875	505	169	7	267
170, 854	Hincks, Enoch P., Bridgeport, Conn. Tack.	Dec. 7, 1875	177	60	8	974
162, 066	Hindemyer, Joseph, and Edward Beinkampen, Philadelphia, Pa. Vent for beer-barrels.	Apr. 13, 1875	424	141	7	639
171, 130	Hinds, Charles H., and Adolph T. Smith, New York, N. Y. Electric gas-lighting apparatus.	Dec. 14, 1875	452	149	8	1018
171, 131	Same. Gas-lighting by electricity.	Dec. 14, 1875	454	149	8	1018
160, 190	Hiner, Martin M., and James M. Fessler, Harrisburgh, assignors of one-third interest to F. R. Colder, State College, Pa. Car-brake.	Feb. 23, 1875	910	299	7	330
161, 121	Hinkle, Philip, San Francisco, Cal. Vacuum relief-valve for water-pipes.	Mar. 23, 1875	819	268	7	486
164, 300	Same. Hydraulic elevator.	June 8, 1875	437	145	7	1000
167, 099	Same. Device for operating throttle-valves.	Aug. 24, 1875	900	281	8	352
163, 198	Hinkley, Benjamin, Troy, N. Y. Railway-switch.	May 11, 1875	449	145	7	813
164, 301	Hinkley, George M., Milwaukee, Wis. Saw-guide.	June 8, 1875	438	145	7	1001
	Hinkley, Nelson P. (See Hinkson & Hinkley.)					
160, 321	Hinkson, Ransom, and Felson P. Hinkley, Buffalo, N. Y. Sod-cutter.	Mar. 2, 1875	60	21	7	357
	Hinrichs, Charles F. A. (See Bechet, Alphonse, assignor.)					
8, 489	Hinrichs, Charles F. A., Brooklyn, N. Y. Lamp-shade. (Design.)	July 20, 1875			8	95
158, 638	Hinton, Robert C., Clinton, Mo. Broom-corn harvester and thrasher.	Jan. 12, 1875	269	91	7	62
164, 172	Hintz, Julius C., Canton, Ohio. Multiple-safe.	June 8, 1875	317	107	7	985
	Same. Drawing-board attachment.			108		
169, 543	Hinvest, Robert, New York, N. Y. Cramp for hollow walls.	Nov. 2, 1875	203	67, 68	8	762
162, 383	Hiozey, Elias C., Iowa City, Iowa. Mode of making emery rubbers for burr-mill-stones.	Apr. 20, 1875	739	240	7	685
161, 414	Hipkins, Stephen, jr., and John W. Rigsby, Wheeling, West Va. Railway-rail-joint fastening.	Mar. 30, 1875	1114	360	7	532
166, 379	Hipkins, Stephen, jr., and John W. Rigsby, Wheeling, West Va. Railway-rail-joint fastening.	Aug. 3, 1875	181	54	8	224
162, 551	Hipp, Samuel, Theodore Wehagen, and Charles Nickel, Cleveland, Ohio. Combination-lock.	Apr. 27, 1875	913	293	7	715
169, 993	Hirner, Jacob, assignor of one-half interest to Clarence A. Hart, Philadelphia, Pa. Fringe.	Nov. 16, 1875	668	209	8	837
159, 575	Hirons, William, and James D. Moore, Grinnell, Iowa. Sewing-machine.	Feb. 9, 1875	324	106	7	237
8, 332	Hirschfeld, Henry W., assignor to Meriden Britannia Company, West Meriden, Conn. Group of statuary. (Design.)	May 18, 1875			7	837
159, 265	Hisley, John P., Syracuse, N. Y. Gag-runner.	Feb. 2, 1875	23	8	7	187
160, 772	Same. Bridle-bit.	Mar. 16, 1875	500	162	7	435
160, 909	Same. Trace-buckle.	Mar. 16, 1875	613	200	7	450
162, 384	Hitchcock, George, assignor to William Everham, Philadelphia, Pa. Pavior's rammer.	Apr. 20, 1875	739	241	7	685
169, 441	Hitchcock, Peter M., Cleveland, Ohio. Device for facilitating the filing of postal cards.	Nov. 2, 1875	110	35	8	750
161, 036	Hitchens, Joseph, assignor of one-half interest to Thomas B. Bukey, Port Washington, Ohio. Fluid thief or pump.	Mar. 23, 1875	736	242	7	476
160, 322	Hitt, Adrain, Flora, Ill. Saddle-horse apparatus.	Mar. 2, 1875	61	22	7	357
167, 247	Hixson, Samuel, West Newton, Pa. Bee-hive.	Aug. 31, 1875	1054	328	8	380
	Hoadley Company, J. C. (See Hoadley, John C., assignor.)					
	Same. (See Sims, Gardiner C., assignor.)					

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161, 122	Hoadley, John C., assignor to J. C. Hoadley Company, Lawrence, Mass. Steam-boiler furnace	Mar. 23, 1875	820	268	7	487
164, 917	Same..... Governor for steam-engines	June 29, 1875	1043	336	7	1105
163, 999	Hoag, Peter, and Otto Junkerman, Centralia, Ill. Water-elevator	June 1, 1875	134	47	7	949
160, 017	Hoagland, Isaac W., Newark, N. J. Measuring-funnel	Feb. 23, 1875	765	253	7	309
169, 809	Hoagland, Isaac W., Newark, N. J., assignor to Richard J. Chard and William Howe, New York, N. Y. Lubricator	Nov. 9, 1875	493	155	8	806
8, 187	Hoard, John W., et al. (See Young, Solomon W., assignor)..... (Reissue.)					
168, 020	Hoare, John, Corning, N. Y. Boquet-holder or vase..... (Design)	Mar. 2, 1875			7	345
	Hobbs, Augustin M., Waupaca, Wis. Double-acting-valve cut-off to flour-packers	Sept. 21, 1875	591	189	8	507
	Hobbs, Brockunier & Co., J. H. (See Wagner, Louis, assignor.)					
169, 103	Hobbs, George W., et al. (See Robbins, Joseph A., assignor.)					
162, 233	Hobbs, John H., Wheeling, W. Va. Manufacture of glassware	Oct. 26, 1875	775	252	8	697
	Hobbs, John H., Wheeling, W. Va., and Charles W. Brockunier, Bridgeport, Ohio. Glass-mold	Apr. 20, 1875	597	196	7	668
162, 234	Same..... Manufacture of pressed glass flower and fruit stands	Apr. 20, 1875	598	196	7	668
167, 835	Hobbs, Joseph D., Northfield, Iowa. Tire-shrinking machine	Sept. 21, 1875	434	138	8	483
	Hobbs, Thomas J. (See Tenney & Hobbs.)					
163, 200	Hobbs, William H., et al. (See Graves, Robert C., assignor)..... (Reissue.)					
	Hobson, Thomas M., Paola, Kans. Kneading-board	May 11, 1875	450	145	7	813
169, 171	Hoch, Albert A., Reading, Pa. Dumping-wagon	Oct. 26, 1875	835	271	8	706
168, 492	Hockert, Seigfried L., assignor of one-half interest to Henry Herckelrath, Cincinnati, Ohio. Truss	Oct. 5, 1875	154	51	8	587
	Hockstetter, Jacob J. (See Weirich, Benedict, assignor.)					
170, 371	Hoddell & Co., James. (See Cole, Mortimer G., assignor.)					
	Hoddinott, John W., Baltimore, Md. Clip for splicing broken tires	Nov. 23, 1875	1032	324	8	894
	Hodgdon, C. W. (See Hall, George L., assignor.)					
165, 732	Hodgdon, Edwin, assignor to self and Ansel J. Cheney, Springdale, Me. Anvil	July 20, 1875	591	181	8	114
164, 738	Hodge, Jacob, Springfield, Ill. Fifth-wheel	June 22, 1875	857	278	7	1074
162, 819	Hodge, William R., East Newark, N. J. Lathe for turning wood	May 4, 1875	76	24, 25	7	757
	Hodges, Andrew J. (See Denton, Charles, assignor.)					
160, 268	Hodges, Andrew J., Peoria, Ill. Wheel for vehicles	Mar. 2, 1875	11	5	7	350
	Hodges, J. S. (See Lee, Harvey T., assignor.)					
170, 086	Hodges, Pliny F., et al. (See Brown, James O., assignor.)					
	Hodges, Pliny F., Massillon, assignor of one-half interest to Hoover & Co., Miamisburgh, Ohio. Harvester-rake	Nov. 16, 1875	757	239	8	849
6, 596	Hodges, William R. (See Buttenberg & Hodges.)					
168, 396	Hodgkins, Christopher, Marlborough, N. H., assignor to Nesbitt D. Stoops, Philadelphia, Pa. Sewing-machine..... (Reissue.)	Aug. 17, 1875	708	220	8	316
	Hodgson, Albert, Humboldt, Kans. Corn-planter	Oct. 5, 1875	69	24	8	574
	Hoe & Co., R. (See Case, Ariel, assignor)..... (Reissue.)					
	Same..... (See De Puy, Alexander T., assignor.)					
	Same..... same..... (Reissue.)					
162, 651	Same..... (See Hinchcliff, James, assignor.)					
162, 652	Hoe, Richard M., New York, N. Y. Printing-press	Apr. 27, 1875	998	320	7	726
165, 232	Same..... same	Apr. 27, 1875	999	321	7	726
170, 628	Hoehn, William, assignor to Adam Schwaab, New York, N. Y. Barber's chair	July 6, 1875	83	25	8	20
160, 674	Hofele, Ferdinand W., New York, N. Y. Combined cleat and hawser clamp	Nov. 30, 1875	1296	409	8	938
160, 910	Hoff, Charles, Cincinnati, Ohio. Sheet-metal bucket	Mar. 9, 1875	382	129	7	413
	Same..... Corpse-cooler	Mar. 16, 1875	614	200	7	450
	Hoffer, David. (See Smith, Charles A., assignor.)					
166, 104	Hoffhein, Reuben, York, Pa. Tile making and laying machine	July 27, 1875	965	297	8	178
	Hoffheins, Reuben. (See Mears, John H., assignor)..... (Reissue.)					
165, 332	Hoffman, Adolph E., Philadelphia, Pa. Saw-set	July 6, 1875	172	52	8	32
6, 746	Hoffman, Austin D., Chicago, Ill., assignor, by mesne assignments, to the Railway Register Manufacturing Company, Buffalo, N. Y. Registering ticket-punch. (Reissue.)	Nov. 16, 1875	826	260	8	857
163, 658	Hoffman, David L., and Parker M. Shoemate, Aullville, Mo. Farm-fence	May 25, 1875	900	286	7	896
165, 489	Hoffman, David L., and Parker M. Shoemate, assignors to George W. Ennis, Aullville, Mo. Weather-strip	July 13, 1875	359	105	8	65
	Hoffman, F. E. (See Lovenguth, John, assignor.)					
162, 288	Hoffman, George W., Monroe Centre, Ill. Sewing-machine	Apr. 20, 1875	644	210	7	674
169, 640	Hoffman, Gustav R., Chicago, Ill. Process for producing multicolored designs on wire-cloth	Nov. 9, 1875	320	211	8	784
	Hoffman, James H. (See Spofford, Charles, assignor.)					
170, 563	Hoffman, John L., assignor to Robert R. Armor, Oil City, Pa. Oil-well packing	Nov. 30, 1875	1230	387	8	929
	Hoffman, John M. (See Gilliford & Hoffman.)					
6, 597	Hoffman, Joseph. (See Hoffman, Nicholas W., assignor.)					
	Hoffman, Joseph, Lebanon, N. J., assignor, by mesne assignments, of one-half interest to Nicholas W. Hoffman. Hoisting-apparatus..... (Reissue.)	Aug. 17, 1875	709	220	8	316
165, 733	Hoffman, Joseph H., Baltimore, Md. Show-case refrigerator	July 20, 1875	592	181	8	115
	Hoffman, Lindley M. (See Filbert & Hoffman.)					
	Hoffman, Nicholas W. (See Hoffman, Joseph, assignor)..... (Reissue.)					
167, 763	Hoffman, Nicholas W., assignor of one-half interest to Joseph Hoffman, Lebanon, N. J. Hoisting-apparatus	Sept. 14, 1875	357	113	8	464
160, 323	Hoffman, Richard H., Keyser, W. Va. Bill-file	Mar. 2, 1875	61	22	7	357
158, 492	Hoffman, Sebastian, Saint Louis, Mo. Tilting chair	Jan. 5, 1875	126	42	7	27
168, 744	Same..... same	Oct. 11, 1875	413	134	8	631
	Hoffman, W. D. (See Becker & Hoffman.)					
164, 560	Hoffman, William H., Passaic, N. J., assignor to New York Steam-Engine Company, New York, N. Y. Mechanism for adjusting lathe-beds to different heights	June 15, 1875	684	222	7	1042
164, 561	Same..... Tool-receptacle for metal-working machines	June 15, 1875	685	222	7	1042
168, 494	Hoffman, William H., Passaic, N. J., and Buckingham S. Hoyt, New York, N. Y. Copying-press	Oct. 5, 1875	156	51	8	587
163, 657	Hoffmann, Axel, New York, N. Y. Planing attachment for metal-turning lathes	May 25, 1875	900	285	7	895
160, 191	Hoffmann, Charles H., San Francisco, Cal. Fertilizing compound	Feb. 23, 1875	910		7	330
	Hoffmann, George. (See Hoffmann, Jacob and George.)					
168, 493	Hoffmann, Jacob and George, Philadelphia, Pa. Machine for grinding and fitting pearl veneers	Oct. 5, 1875	155	51	8	587
161, 614	Hoffmaster, Sol., Harrisburgh, Pa. Lubricator for piston-rods	Apr. 6, 1875	22	9, 10	7	572
8, 648	Hoffmeister, Charles E., New York, N. Y. Piano-forte leg..... (Design)	Sept. 14, 1875			8	439

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 653	Hoffmeister, Louis C., jr., Philadelphia, Pa. Window-shade fixture.....	Apr. 27, 1875	1000	321	7	726
	Hofmann, Carl, <i>et al.</i> (See Anderson, Charles, assignor.)					
164, 684	Hogben, James, Cleveland, Ohio. Compound for sizing paper.....	June 22, 1875	805	.....	7	1067
166, 609	Hoge, John T., and Robert D. Shultz, Zanesville, Ohio. Soap.....	Aug. 10, 1875	406	.....	8	265
	Hoglen, George W., <i>et al.</i> (See Krutzsch, William, assignor.)					
	Hoglen, George W., <i>et al.</i> (See Nugent, Richard C., assignor.)					
160, 324	Hogue, Alexander, Rutland, Ohio. Carriage-painter's easel.....	Mar. 2, 1875	62	22	7	357
159, 760	Hogue, Charles C., Brush Creek, Iowa. Stamp-puller.....	Feb. 16, 1875	506	170	7	268
6, 368	Hogue, Lovren E., Sandy Lake, Pa. Farm-fence..... (Reissue)	Apr. 6, 1875	236	78	7	602
158, 941	Same..... same.....	Jan. 19, 1875	567	188	7	117
158, 711	Hoitt, Lora B., Worcester, Mass. Corn-sheller.....	Jan. 12, 1875	334	114	7	71
	Hoitt, James W. (See Merrill & Hoitt.)					
	Same..... same..... (Reissue.)					
160, 432	Holabird, William H., and Aaron Parks, Valparaiso, Ind. Cartridge-shell holder.....	Mar. 2, 1875	156	55	7	371
166, 608	Holbrook, Charles W., Windsor Locks, Conn. Clamp for pressing leaves.....	Aug. 10, 1875	406	125	8	265
159, 094	Holbrook, Silas W., Catskill, N. Y. Washing-machine.....	Jan. 26, 1875	732	242	7	147
168, 567	Holbrook, Sylvanus, Rockport, Mass. Railway-track gauge.....	Oct. 11, 1875	252	82	8	607
163, 012	Holbrook, Walter A., Milwaukee, Wis. Grate.....	May 11, 1875	275	89	7	791
	Holcomb, A. A., <i>et al.</i> (See Hawkins, William G., assignor.)					
	Holcomb, Abel P. (See Huntley, Holcomb & Heine.)					
	Holcombe, Clifford A. (See Baldwin & Holcombe.)					
165, 233	Holdam, William H., Crab Orchard, Ky. Egg-box.....	July 6, 1875	83	25	8	20
170, 671	Holden, Charles F., Boston, Mass. Bird-cage.....	Dec. 7, 1875	16	5	8	953
	Holden, Charles W. (See Blodget, Henry T., assignor.)					
169, 205	Holden, George W., Dayton, Ohio. Book-cover protector.....	Nov. 16, 1875	596	185	8	827
169, 810	Holden, Oliver, New York, N. Y. Alloy for preventing incrustation upon metals.....	Nov. 9, 1875	493	.....	8	806
162, 820	Holden, Orsemor S., and John S. Corey, Felchville, Vt. Combined wash-bench and wringer.....	May 4, 1875	77	25	7	757
169, 265	Holdsworth, William, Chester, Pa. Tire-upsetting machine.....	Oct. 26, 1875	919	298	8	717
163, 869	Holland, Charles L., Ipswich, Mass. Laundry-polish.....	June 1, 1875	30	.....	7	934
162, 167	Holland, Charles L., assignor of one-half interest to John J. Sullivan, Ipswich, Mass. Nut-lock.....	Apr. 20, 1875	536	176	7	660
158, 712	Holland, James H., Aurora, Mo. Combined land-roller and seeding-machine.....	Jan. 12, 1875	335	114	7	71
159, 513	Holland, John, Cincinnati, Ohio. Pen and pencil case.....	Feb. 9, 1875	278	90	7	230
165, 827	Holland, Timothy, New York, N. Y. Stop-cock.....	July 20, 1875	689	211	8	127
166, 204	Holland, Wallace S., and Josiah W. Parker, Vergennes, Vt. Slide for extension-tables.....	Aug. 3, 1875	20	7	8	202
166, 007	Hollely, Joseph, Brooklyn, N. Y. Toilet-glass frame.....	July 27, 1875	873	268	8	164
170, 564	Hollembeak, Aramont N., Genoa, Ill. Windmill.....	Nov. 30, 1875	1231	387	8	929
6, 787	Hollen, Stephen W., Cincinnati, Ohio, assignor to James Sargent, Rochester, N. Y. Time-lock..... (Reissue)	Dec. 7, 1875	254	85	8	984
162, 552	Hollenbeck, John W., Auroraville, Wis. Wagon-bolt.....	Apr. 27, 1875	915	293	7	715
	Holliday, Alfred D. (See Butterfield & Holliday.)					
	Holliday, Amos C. (See Whiteside & Holliday.)					
168, 900	Holliday, James G., assignor to self and Frank E. Hutchinson, Pittsburgh, Pa. Railway-rail joint.....	Oct. 19, 1875	561	183	8	660
158, 797	Holliday, James L., assignor of one-half interest to John A. Holliday, Wheeling, W. Va. Coal-box.....	Jan. 19, 1875	432	144	7	100
160, 018	Holliday, John, and Hayden M. Baker, Brooklyn, N. Y. Process for removing tin from tin-scrap.....	Feb. 23, 1875	766	.....	7	309
	Holliday, John A. (See Holliday, James S., assignor.)					
161, 961	Hollinger, John H., Lancaster, Pa. Meat-cutter.....	Apr. 13, 1875	337	113	7	627
167, 533	Hollingsworth, James, Chicago, Ill. Horse hay-rake.....	Sept. 7, 1875	136	41, 42	8	425
166, 460	Hollingsworth, Joseph, assignor of one-half interest to Elihu W. Pemberton, Jonesborough, Ind. Washing-machine.....	Aug. 10, 1875	283	84	8	246
167, 667	Hollingsworth, Sanders, Pike Township, Indiana. Wood-holder for saw-bucks.....	Sept. 14, 1875	267	83	8	451
169, 994	Hollis, John W., assignor of two-thirds interest to Americus Warden, Charles C. Campbell, and Edwin C. Bush, Cincinnati, Ohio. Elastic back-band for harness.....	Nov. 16, 1875	669	210	8	837
163, 071	Hollis, Washington, Pembroke, Ky. Moth-trap.....	May 11, 1875	330	107	7	798
171, 478	Hollis, William J., De Witt, Mo. Farm-gate.....	Dec. 28, 1875	816	268	8	1082
168, 333	Hollister, George, Quincy, Mass. Candle-burner.....	Oct. 5, 1875	15	6	8	567
164, 998	Hollister, George E., Kalamazoo, Mich. Ironing-board.....	June 29, 1875	1112	358	7	1114
162, 654	Holloman, Joseph J., Humboldt, Tenn. Bale-tie.....	Apr. 27, 1875	1001	321	7	726
164, 739	Holloway, Henry C., assignor to self and John S. Harbison, San Diego, Cal. Planing-machine.....	June 22, 1875	858	279	7	1074
158, 378	Holloway, Josephus F., Cleveland, Ohio. Steam-cylinder head for compound engines.....	Jan. 5, 1875	23	8	7	12
167, 248	Holm, Loren H., San Francisco, Cal. Bridle-bit.....	Aug. 31, 1875	1055	328	8	380
171, 284	Holman, David O., Adams, N. Y. Vehicle-hub.....	Dec. 21, 1875	625	204	8	1049
164, 454	Holmers, Axel, Boston, Mass. Sofa-bedstead.....	June 15, 1875	596	194	7	1030
	Holmes, Britain. (See Holmes, Edward and Britain.)					
	Holmes, C. E. L. (See McManus, Henry, assignor.)					
170, 265	Holmes, Charles E. L., assignor to Lawrence Curry-Comb Company, New York, N. Y. Curry-comb.....	Nov. 23, 1875	944	295	8	881
166, 872	Holmes, Edward and Britain, Buffalo, N. Y. Machine for jointing staves.....	Aug. 17, 1875	664	207	8	310
166, 873	Same..... Machine for sawing barrel-heads..... (Reissue.)	Aug. 17, 1875	666	207	8	311
	Holmes, Edwin T. (See Whiting, William.)					
	Holmes, Frederick A. (See Williams, George, assignor.)					
166, 871	Holmes, George W., Council Bluffs, Iowa. Washing-machine.....	Aug. 17, 1875	663	206	8	310
162, 749	Holmes, Henry, Troy, N. Y. Brush-back.....	May 4, 1875	13	5	7	748
162, 750	Same..... Machine for punching brush-blocks.....	May 4, 1875	13	5	7	748
163, 492	Holmes, Henry H., Council Bluffs, Iowa. Boot and shoe cleaner.....	May 18, 1875	732	233	7	866
160, 825	Holmes, Isaac L., Saco, Me. Cloth-shearing machine.....	Mar. 16, 1875	547	{ 177 } { 178 }	{ 7 } { 7 }	{ 441 } { 441 }
86, 306	Holmes, Isaac V., New York, N. Y. Metallic lathing..... (Disclaimer filed)	July 6, 1875	.....	.....	8	148
6, 590	Holmes, Isaac V., Mount Vernon, Ohio, assignor of one-half interest to John Cooper. Metallic lathing..... (Reissue)	Aug. 10, 1875	480	147	8	275
171, 479	Holmes, James A., Cambridgeport, Mass. Window.....	Dec. 28, 1875	817	268	8	1083
165, 580	Holmes, John, and Peter P. Quirin, Saint Clair, Pa. Miner's tool.....	July 13, 1875	439	133	8	78
165, 581	Holmes, Josiah, Pittsburgh, Pa. Method of making plow mold-boards.....	July 13, 1875	440	133	8	78
160, 433	Holmes, Josiah, assignor to self and Hussey, Wells & Co., Pittsburgh, Pa. Metal-rolling machine.....	Mar. 2, 1875	156	55	7	371
170, 264	Holmes, Kirk W., Winona, Minn. Billet-loop.....	Nov. 23, 1875	944	295	8	881
162, 068	Holmes, Lucian, Tullahoma, Tenn. Fire-tongs.....	Apr. 13, 1875	426	142	7	639
167, 249	Holmes, Nathan L., Racine, Wis. Vehicle-body corner-iron.....	Aug. 31, 1875	1055	328	8	381
160, 325	Holmes, Thomas J., Boston, Mass. Bottle-stopper.....	Mar. 2, 1875	63	22	7	358
170, 855	Holmes, William H., Philadelphia, Pa. Process of treating hides.....	Dec. 7, 1875	177	60	8	974
164, 647	Holmes, Winslow H., Hastings, Mich. Process for printing in colors.....	June 22, 1875	774		7	1063

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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183, 591	Holt, Charles E., Boston, Mass. Lubricator.....	May 25, 1875	844	266	7	888
164, 999	Holt, Gardiner L., Springfield, Mass. Bit for boring wood.....	June 29, 1875	1112	359	7	1114
168, 397	Holt, George, Minneapolis, Minn. Kitchen-cabinet.....	Oct. 5, 1875	70	25	8	575
	Holt, George H. (See Peters & Holt.)					
159, 514	Holt, Henry A., Wilton, N. H. Wood-molding machine.....	Feb. 9, 1875	279	90	7	230
170, 732	Same..... Spoke-socket.....	Dec. 7, 1875	73	22	8	960
6, 714	Holt, Horace, Brooklyn, N. Y. Marking-wheel..... (Reissue)	Oct. 26, 1875	982	317	8	725
159, 180	Holt, Newton W., assignor to Olin Scott, Bennington, Vt. Jeweler's lathe.....	Jan. 26, 1875	810	265	7	157
161, 337	Holt, Samuel R., Worthington, Ohio. Farm-gate.....	Mar. 30, 1875	1037	337	7	523
168, 021	Holton, Cassius, Reading, Pa., assignor of one-half interest to Pulaski Farwell, Frederickville, Ill. Nut-lock.....	Sept. 21, 1875	592	189	8	507
	Holton, H. B. (See Fairbank, William H., assignor.)					
165, 828	Holton, Simeon, Middlebury, Vt. Transit.....	July 20, 1875	690	211	8	127
171, 513	Holtz, Carl, Saint Louis, Mo., assignor to Hiram A. French. Constructing wells.....	Dec. 28, 1875	852	278	8	1087
	Holyoke Machine Company. (See Whitten, Nathan H., assignor.)					
162, 067	Holzner, Charles, Louisville, Ky. Car-coupling.....	Apr. 13, 1875	425	142	7	639
	Homan, William, et al. (See Wilson, George W., assignor.)					
	Homer, Charles, et al. (See Rockstroh, Francis E., assignor.)					
	Honnoll, James W., et al. (See Honnoll, Peter, assignor.)					
	Honnoll, Moses H., et al. (See Honnoll, Peter, assignor.)					
167, 250	Honnoll, Peter, Marietta, assignor of two-thirds interest to James W. Honnoll, Byhalia, and Moses H. Honnoll, Marietta, Miss. Bee-hive.....	Aug. 31, 1875	1056	328	8	381
162, 553	Hood, Alexander J., Warren, Ill. Umbrella-support for vehicles.....	Apr. 27, 1875	915	293	7	715
166, 874	Hood, Cyrus S., Corning, N. Y. Adjustable folding table.....	Aug. 17, 1875	669	208	8	311
	Hood Fire-Arms Company. (See Hood, Freeman W., assignor.)					
160, 192	Hood, Freeman W., assignor to Hood Fire-Arms Company, Norwich, Conn. Revolving fire-arm.....	Feb. 23, 1875	911	300	7	330
161, 615	Same..... same.....	Apr. 6, 1875	23	10	7	572
165, 582	Hood, Harrison P., and George W. Joseph, Indianapolis, Ind. Device for attaching handles to brushes.....	July 13, 1875	440	133	8	78
165, 583	Same..... Adjustable handle-attaching device.....	July 13, 1875	441	134	8	78
160, 596	Hood, William, San Francisco, Cal. Ice-making apparatus.....	Mar. 9, 1875	318	107	7	403
170, 266	Hoogeveen, George W. F., Haarlem, Netherlands. Electric cable and conductor.....	Nov. 23, 1875	945	295	8	881
170, 372	Hooker, John, Islington, assignor to William Moore, Beccles, and William C. K. and William Clowes, jr., London, England. Type-setting machine.....	Nov. 23, 1875	1032	{ 324 } { 325 }	{ 8 }	894
161, 231	Hookham, George, assignor of one-half interest to Alfred Ludlow, Birmingham, England. Method of applying caps to the heads of screws.....	Mar. 23, 1875	917	300	7	500
159, 576	Hooper, George W., Greene, Me. Pump.....	Feb. 9, 1875	325	107	7	237
	Hooper, James A., jr. (See Brand, Charles A., assignor.)					
8, 554	Hooper, Joseph H., and Theodore Johnsen, Portland, Me. Chair..... (Design)	Aug. 3, 1875	.....	.....	8	194
166, 699	Hooper, Nicholas B., Brooklyn, N. Y., and Thomas S. Crane, Newark, N. J. Felting-machine.....	Aug. 17, 1875	506	155	8	287
170, 672	Hooper, Richard H., Washington, D. C. Speaking-tube.....	Dec. 7, 1875	17	5	8	953
	Hooper, William H., et al. (See Frederick, William C., assignor.)					
170, 856	Hoopes, Ralston R., West Chester, Pa. Portable coal-chute.....	Dec. 7, 1875	178	61	8	974
160, 326	Hoopes, William R., and Marshall L. Smith, assignors of one-third interest to Baldwin Keech, West Chester, Pa. Car-coupling.....	Mar. 2, 1875	63	23	7	358
164, 371	Hooton, Francis C., West Chester, Pa. Apparatus for lighting and heating houses.....	June 15, 1875	518	170	7	1020
	Hoover, Abel. (See Brown & Hoover.)					
	Hoover & Co. (See Hodges, Pliny F., assignor.)					
159, 927	Hoover, George W., Kutztown, Pa. Harness.....	Feb. 16, 1875	661	{ 218 } { 219 }	{ 7 }	288
	Hoover, Harris & Co. (See Jackson & Humphrey, assignors.)					
	Hoover, Rudolph. (See Price & Hoover.)					
168, 253	Hoover, Samuel S., assignor to self and Andrew J. Jones, Alderson, W. Va. Attachment to coffee-pots.....	Sept. 28, 1875	835	{ 266 } { 267 }	{ 8 }	547
160, 193	Hoover, Thomas J., Woodbury, Tenn. Corn-sheller.....	Feb. 23, 1875	912	300	7	330
	Hope, George T., et al. (See Allen, John F., assignor.)					
165, 584	Hopfen, Anton, New York, N. Y. Tooth-protector.....	July 13, 1875	442	134	8	78
	Hopkins and Dickinson Manufacturing Company. (See McGregor & Voll, assignors.) (Reissue.)					
168, 022	Hopkins, Addison S., Pascoag, R. I. Method of securing spindle-stops in their supports.....	Sept. 21, 1875	592	189	8	507
167, 174	Hopkins, Caleb, Waltham, Mass. Watch-case tool.....	Aug. 31, 1875	993	309	8	372
	Hopkins, Charles B. (See Johnston & Hopkins.)					
6, 464	Hopkins, Charles H., Lyndon, Vt. Cylinder-cock for locomotives..... (Reissue)	June 1, 1875	205	73	7	958
6, 715	Hopkins, Charles W., Norwich, Conn., assignor of one-half interest to Merwin, Hulbert & Co. Safety-catch for revolvers..... (Reissue)	Oct. 26, 1875	983	318	8	726
165, 098	Hopkins, Charles W., Norwich, Conn., assignor of one-half interest to Merwin, Hulbert & Co., New York, N. Y. Safety-catch for revolvers.....	June 29, 1875	1201	386	7	1126
168, 023	Hopkins, Elwood E., and George A. Beidler, Philadelphia, Pa.; said Beidler assignor to said Hopkins. Fan for dental engines.....	Sept. 21, 1875	593	190	8	507
	Hopkins, Finley G. (See Weller & Hopkins.)					
	Hopkins, George E. (See Cox & Hopkins.)					
159, 677	Hopkins, George M., Albion, N. Y. Flame-regulator.....	Feb. 9, 1875	413	137	7	249
162, 168	Same..... Steam-trap.....	Apr. 20, 1875	537	176	7	660
162, 169	Same..... Pipe or hose coupling.....	Apr. 20, 1875	538	177	7	660
160, 269	Hopkins, George M., assignor of one-half interest to John A. Straight, Albion, N. Y. Car-brake.....	Mar. 2, 1875	12	5, 6	7	350
162, 475	Hopkins, Henry H., Norwich, Conn. Revolving fire-arm.....	Apr. 27, 1875	849	273	7	707
164, 918	Hopkins, Isaac N., assignor of one-half interest to George H. Shattuck, Medina, N. Y. Watch-case spring and catch.....	June 29, 1875	1044	336	7	1105
	Hopkins, James M. (See Heiser, Francis C., assignor.) (Reissue.)					
165, 447	Hopkins, James M., Louisville, Ky. Liquid-measuring apparatus.....	July 13, 1875	317	93	8	59
168, 997	Same..... Faucet.....	Oct. 19, 1875	651	214	8	672
171, 381	Same..... Device for filling and discharging liquid-packages.....	Dec. 21, 1875	709	234	8	1060
171, 382	Same..... Liquid-measure.....	Dec. 21, 1875	710	235	8	1060
161, 513	Hopkins, Jason R., Washington, D. C. Watch.....	Mar. 30, 1875	1210	389	7	545
165, 830	Hopkins, Jason R., assignor of one-half interest to William D. Colt, Washington, D. C. Escapement for watches.....	July 20, 1875	692	211	8	127
165, 831	Same..... Barrel-arbor for watches.....	July 20, 1875	693	212	8	128
	Hopkins, John L. (See Russell & Seamans, assignors.)					
159, 095	Hopkins, Joseph W., New York, N. Y. Automatic boiler-feeder, &c.....	Jan. 26, 1875	783	242	7	147
159, 266	Hopkins, Lewis C., and Augustus Cooke, Cincinnati, Ohio. Hand-car.....	Feb. 2, 1875	29	8	7	188
158, 588	Hopkins, Samuel D., Trumansburgh, N. Y. Windmill.....	Jan. 12, 1875	227	76	7	55

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163, 592	Hopkins, Stephen B., Conneaut, Ohio. Device for heating wagon-tires.....	May 25, 1875	844	266	7	888
171, 383	Hoppe, Theodore, Lawrence, Mass. Chuck for metal-drills.....	Dec. 21, 1875	711	235	8	1060
	Hopper, Gerald. (See Norton, James L., assignor.)					
170, 475	Hopper, Thomas C., Philadelphia, Pa. Combined scrubber and condenser for illuminating-gas.....	Nov. 30, 1875	1149	362	8	918
164, 372	Hopper, William L., Monmouth, Ill. Cultivator.....	June 15, 1875	518	170	7	1020
162, 655	Hopson, Albert S., Plain View, Minn. Vehicle-spring equalizer.....	Apr. 27, 1875	1001	321	7	727
162, 751	Horack, Carl L., Brooklyn, N. Y. Elevated railway.....	May 4, 1875	14	5	7	749
8, 107	Horan, Henry, East Orange, N. J., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....	(Design) Feb. 23, 1875			7	302
8, 108	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 109	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 110	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 111	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 112	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 113	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 114	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 115	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 116	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 117	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 118	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 119	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 120	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 121	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 122	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 123	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 124	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 125	Same.....same.....	(Design) Feb. 23, 1875			7	302
8, 524	Same.....same.....	(Design) July 27, 1875			8	148
8, 525	Same.....same.....	(Design) July 27, 1875			8	148
8, 526	Same.....same.....	(Design) July 27, 1875			8	148
8, 527	Same.....same.....	(Design) July 27, 1875			8	148
8, 680	Same.....same.....	(Design) Oct. 5, 1875			8	560
8, 681	Same.....same.....	(Design) Oct. 5, 1875			8	560
8, 682	Same.....same.....	(Design) Oct. 5, 1875			8	560
8, 683	Same.....same.....	(Design) Oct. 5, 1875			8	560
8, 684	Same.....same.....	(Design) Oct. 5, 1875			8	560
	Horan, James S., et al. (See Swafford, Levi W., assignor.)					
159, 678	Horbart, William, Madison, Wisconsin, assignor of one-third interest to J. E. G. Barckhan, Madison, Wis. Sash-fastener.....	Feb. 9, 1875	414	137	7	249
163, 493	Horlick, James and William, Chicago, Ill. Concentrated extract for food.....	May 18, 1875	733		7	867
	Horlick, William. (See Horlick, James and William.)					
164, 086	Horn, Sydney H., Bloomfield, Iowa. Earth-auger.....	June 8, 1875	241	83	7	975
162, 554	Horn, William H., Santa Cruz, Cal. Wagon-jack.....	Apr. 27, 1875	916	294	7	715
163, 870	Hornbeck, Cornelius F., Slaterville, N. Y. Wash-bench and wringer.....	June 1, 1875	30	9	7	934
167, 898	Horne, Daniel H., New York, N. Y. Corset.....	Sept. 21, 1875	490	155	8	491
161, 232	Horne, Valentine, Atlanta, Ill. Check-rower.....	Mar. 23, 1875	920	301	7	500
	Horner, Robert. (See Horner, Samuel, jr., assignor.)					
162, 385	Horner, Samuel, jr., assignor to self and Robert Horner, Philadelphia, Pa. Carpet-fabric.....	Apr. 20, 1875	740	241	7	685
166, 277	Hornich, William, Newark, N. J. Button.....	Aug. 3, 1875	83	26	8	211
164, 373	Horning, Robert A., Sterling, Ill. Automatic gate.....	June 15, 1875	519	171	7	1020
	Hornish, George B. (See Myers, Christian, assignor.)					
165, 829	Hornum, William H., New York, N. Y. Fare-register.....	July 20, 1875	691	211	8	127
165, 832	Same.....same.....	July 20, 1875	694	212	8	128
169, 266	Same.....Railway-rail joint.....	Oct. 26, 1875	920	298	8	717
171, 132	Same.....Mechanical movement.....	Dec. 14, 1875	455	149	8	1018
171, 133	Same.....Fare-register.....	Dec. 14, 1875	456	149	8	1018
8, 715	Horsfall, Charles H., assignor to Baxter & Scriven Brothers, New York, N. Y. Shirt-bosom.....	(Design) Oct. 11, 1875			8	600
164, 087	Horsfall, John H., New York, N. Y. Dressing-case or combined bureau and wardrobe.....	June 8, 1875	242	83	7	975
160, 194	Horsfall, William, Armley, Leeds, England. Nut-machine.....	Feb. 23, 1875	912	300	7	330
160, 195	Same.....Die for making horseshoes.....	Feb. 23, 1875	914	301	7	330
159, 922	Hartin, Philip, and William Cummins, assignors to M. J. Coleman Bolt and Nut Company, Philadelphia, Pa. Tool for pointing bolts.....	Feb. 16, 1875	656	217	7	287
166, 105	Horton, Henry A. R., and Amos P. Hayes, McKinney, Tex., assignors of one-half interest to John H. Owen. Tire-tightener.....	July 27, 1875	967	297	8	178
171, 285	Horton, James T., Wiedman's, S. C. Guano-distributor.....	Dec. 21, 1875	626	205	8	1049
161, 616	Horton, Nathan W., New York, N. Y. Drill-chuck.....	Apr. 6, 1875	24	10	7	572
158, 493	Horton, Numon N., Kansas City, Mo. Car-brake.....	Jan. 5, 1875	127	42, 43	7	27
166, 875	Same.....Railway-car seat.....	Aug. 17, 1875	670	208	8	311
160, 196	Horton, Pemberton B., San Francisco, Cal. Saddle-tree.....	Feb. 23, 1875	915	301	7	330
162, 170	Horton, Rollin, Cleveland, Ohio. Dental bib.....	Apr. 20, 1875	539	177	7	660
161, 962	Horton, William D., Nashville, Tenn. Umbrella.....	Apr. 13, 1875	338	{ 113 } 114	7	628
	Horton, William H., et al. (See Eichbaum, Frederick H., assignor.)					
169, 442	Horton, William H., assignor to self and William Bosson and Norris Nichols, Chelsea, Mass. Mattress and cushion.....	Nov. 2, 1875	110	35	8	750
	Horton, William W., et al. (See Eichbaum, Frederick H., assignor.)					
162, 069	Horton, Wright, Peekskill, N. Y. Vise.....	Apr. 13, 1875	426	142	7	639
169, 544	Hosford, William B., Maywood, Ill. Stove-grate.....	Nov. 2, 1875	204	68	8	762
	Hosick, John. (See Sims & Hosick.)					
168, 495	Hoskin, John, Philadelphia, Pa. Tube-rolling machine.....	Oct. 5, 1875	157	51	8	587
	Hosley, George T. B. (See Bunnell & Hosley.)					
162, 656	Hosmer, Oren S., assignor to Cyrus Carpenter and Edwin Strain, trustees, Boston, Mass. Darning-machine.....	Apr. 27, 1875	1002	322	7	727
167, 899	Hotchkiss, Arthur E., Cheshire, Conn. Walking-doll.....	Sept. 21, 1875	490	155	8	491
159, 928	Hotchkiss, Arthur E., Cheshire, assignor to Friend W. Smith and Frederick Egge, Bridgeport, Conn. Toy.....	Feb. 16, 1875	662	219	7	288
158, 494	Hotchkiss, Benjamin B., New York, N. Y. Metallic cartridge-case.....	Jan. 5, 1875	128	43	7	27
160, 434	Same.....Breech-loading ordnance.....	Mar. 2, 1875	157	55	7	371
161, 037	Same.....Means of mounting and operating ordnance.....	Mar. 23, 1875	737	{ 242 } 243	7	476
169, 641	Same.....Breech-loading fire-arm.....	Nov. 9, 1875	321	102	8	785
168, 745	Hotchkiss, Charles A., Bridgeport, Conn. Curry-comb.....	Oct. 11, 1875	413	134	8	631
170, 733	Same.....same.....	Dec. 7, 1875	73	23	8	960

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
170, 734	Hotchkiss, Charles A., Bridgeport, Conn. Curry-comb.....	Dec. 7, 1875	74	23	8	960
170, 735	Same.....same.....	Dec. 7, 1875	75	23	8	960
170, 736	Same.....same.....	Dec. 7, 1875	75	24	8	960
170, 857	Same.....same.....	Dec. 7, 1875	179	61	8	974
169, 545	Hotchkiss, Edgar F., Unadilla Forks, N. Y. Mail-bag catcher.....	Nov. 2, 1875	205	68	8	762
	Hotchkiss Sons. (See Saladee, Cyrus W., assignor.).....(Reissue.)					
	Hotine, William, Brooklyn, N. Y. Machine for mixing dough.....(Extension)	Jan. 7, 1875			7	180
163, 072	Hotz, Christoph, Chicago, Ill. Vehicle-spring.....	May 11, 1875	331	108	7	798
163, 073	Hotz, Nicholas, Brooklyn, N. Y. Blind-stop.....	May 11, 1875	331	108	7	798
162, 924	Houchin, Thomas W., New York, N. Y. Pocket lamp-stove.....	May 4, 1875	168	55	7	769
166, 008	Same.....Pocket gas-stove.....	July 27, 1875	873	269	8	164
159, 323	Houck, William H., and John B. Fox, Quincy, Ill. Coffin-clamp for hearses.....	Feb. 2, 1875	79	27	7	195
	Hough, Charles W., et al. (See Wiard, George and Thomas, assignors.)					
	Hough, C. W. (See Wiard, George, assignor.)					
170, 951	Hough, Emma, Brooklyn, N. Y. Hair-heading machine.....	Dec. 14, 1875	781	95	8	995
162, 555	Houghton, Jarvis W., Fairbury, Nebr. Middlings-purifier.....	Apr. 27, 1875	917	294	7	715
	Houghton, Charles. (See Stephenson, Howard B., assignor.)					
171, 020	Houghton, Edward C., Cambridgeport, assignor to Caleb C. Walworth, Boston, Mass. Reversible filter.....	Dec. 14, 1875	345	115	8	1004
6, 562	Houghton, Edwin F., deceased, assignor, by mesne assignments, to Aaron E. Carpenter, Philadelphia, Pa. Converting iron into steel.....(Reissue)	July 27, 1875	1046		8	189
164, 740	Houghton, Henry S., Smithville, Mass. Piecing-warp holder.....	June 22, 1875	858	279	7	1074
	Houghton, James F. (See Anderson & Houghton).....(Reissue)					
166, 461	Houghton, Lewis T., Worcester, Mass. Smoke-flue and heating-drum.....	Aug. 10, 1875	283	84	8	246
168, 901	Haupt, John, Springtown, Pa. Compound condensing apparatus for marine steam-engines.....	Oct. 19, 1875	561	{ 183 } { 184 }	{ 8 }	{ 660 }
167, 900	House, Garrett Z., assignor of one-half interest to Orson A. House, New York, N. Y. Combination spring-hinge.....	Sept. 21, 1875	491	155	8	491
170, 171	House, Henry A., Bridgeport, Conn. Shutter-worker.....	Nov. 23, 1875	862	269	8	170
163, 201	House, Henry A., assignor to Frank Armstrong, Bridgeport, Conn. Sash-fastener.....	May 11, 1875	451	146	7	813
171, 918	House, James A., Bridgeport, Conn. Trunk.....	Dec. 28, 1875	961	311	8	1102
	House, J. Martin, et al. (See McPherson, John, assignor.)					
	House, Orson A. (See House, Garrett Z., assignor.)					
161, 790	Houssee, Ambrose N., New York, N. Y. Grate for stoves.....	Apr. 6, 1875	171	59	7	594
163, 202	Houston, George P., Washington, D. C. Cooking-lamp.....	May 11, 1875	452	146	7	813
169, 443	Houston, George P., Washington, D. C., assignor to self and Walton Brothers, New York, N. Y. Handcuff.....	Nov. 2, 1875	111	35	8	750
160, 197	Houston, John, Woodburn, Iowa. Repairing railway-tracks.....	Feb. 23, 1875	915	301	7	330
171, 134	Houston, Levi, Montgomery, Pa. Molding-machine.....	Dec. 14, 1875	457	150	8	1018
171, 480	Same.....Planing-machine.....	Dec. 28, 1875	818	268	8	1038
171, 919	Houston, Samuel, assignor of one-fourth interest to Lewis A. Clarke, Saint Louis, Mo. Wood pavement.....	Dec. 28, 1875	962	311	8	1102
158, 375	Houston, Thomas J., Madison County, Ohio. Cultivator-shovel.....	Jan. 5, 1875	21	7	7	11
164, 685	Hovey, Asa E., San Francisco, Cal. Fare-box.....	June 22, 1875	606	264	7	1067
	Hovey, Francis. (See Hovey, William H., assignor.)					
167, 764	Hovey, Horace C., Ayer, Mass. Combination-lock.....	Sept. 14, 1875	357	113	8	464
164, 302	Hovey, William H., Springfield, Mass., assignor to self and Francis Hovey, New York, N. Y. Umbrella-stand.....	June 8, 1875	439	145	7	1001
166, 380	How, C. Dewey, Cincinnati, Ohio. Holder for preserve-cans.....	Aug. 3, 1875	182	55	8	224
159, 822	Howard, Albert G., Farmington, Me. Leather-strap-skiving machine.....	Feb. 16, 1875	564	187	7	275
166, 205	Howard, Anson M., Ilion, N. Y. Type.....	Aug. 3, 1875	20	7	8	202
169, 701	Same.....Type-machine.....	Nov. 9, 1875	84	120	8	793
162, 476	Howard, Benjamin, and Jesse Beadle, Shickshinny, Pa. Speaking-tube.....	Apr. 27, 1875	850	273	7	707
158, 639	Howard, Benjamin B., West Bridgewater, Mass. Means of attaching hubs to axles.....	Jan. 12, 1875	270	91	7	62
	Howard, Clarence E. (See Howard, John E. and Clarence E.)					
163, 778	Howard, Elijah L., assignor to John A. S. Graves, Boston, Mass. Clasp for stocking-supporters.....	May 25, 1875	1000	317	7	909
169, 642	Howard, Elijah L., assignor to self and John A. S. Graves, Boston, Mass. Plaiting-machine.....	Nov. 9, 1875	323	102	8	785
	Howard, F. A., et al. (See Poinier, Charles P., assignor.)					
167, 836	Howard, Frederick, Hyde Park, Ill. Check-guard for harness.....	Sept. 21, 1875	434	138	8	483
161, 038	Howard, Frederick B., New York, N. Y. Straw concrete.....	Mar. 23, 1875	738		7	476
170, 087	Howard, George C., Philadelphia, Pa. Platform-elevator.....	Nov. 16, 1875	758	240	8	849
	Howard, George H. (See Howard, William T. and George H.)					
	Howard, Gibson F., et al. (See Schlenker, Erhard, assignor.)					
167, 534	Howard, John E. and Clarence E., Reading, Mass. Machine for cutting ovals.....	Sept. 7, 1875	137	42	8	425
	Howard, Rufus L., et al. (See Schlenker, Erhard, assignor.)					
168, 254	Howard, Sylvester B., Gilman, Ill. Pitman-connection.....	Sept. 28, 1875	836	267	8	547
162, 925	Howard, William T., Baltimore, Md. Stove-door hinge.....	May 4, 1875	169	56	7	769
170, 629	Howard, William T., Baltimore, Md., and George H. Howard, Washington, D. C. Hand-propelled vehicle.....	Nov. 30, 1875	1296	409	8	938
161, 039	Howarth, John, New Cumberland, W. Va., assignor of one-half interest to Samuel T. Lamb, Cambridge, Mass. Apparatus for the manufacture of lamp-black.....	Mar. 23, 1875	738	243	7	476
160, 911	Howdon, Robert J., Cincinnati, Ohio. Apparatus for marbleizing mantels.....	Mar. 16, 1875	615	201	7	450
	Howe, Ephraim. (See Gardner, Smith, assignor.)					
	Howe, George H. (See Howe, William M. and George H.)					
161, 233	Howe, Henry, Council Bluffs, Iowa. Truss.....	Mar. 23, 1875	921	301	7	500
167, 765	Howe, Henry, assignor of one-half interest to Walter R. Vaughan, Council Bluffs, Iowa. Apparatus for supplying locomotives with water.....	Sept. 14, 1875	360	113	8	464
	Howe, Isaac P. (See Wilcox, Darius, assignor.)					
	Howe, Joshua B. (See Worcester & Howe.)					
169, 104	Howe, Manley, Boston, Mass. Steam-washer.....	Oct. 26, 1875	776	252	8	697
161, 234	Howe, Otis, assignor to Howe Spring Bed Company, Cambridgeport, Mass. Cot-bedstead.....	Mar. 23, 1875	921	301	7	500
6, 742	Howe, Solon G., assignor to self and James W. Cheney, Detroit, Mich. Car-brake.....(Reissue)	Nov. 2, 1875	278	90	8	772
162, 556	Same.....same.....	Apr. 27, 1875	918	294	7	715
	Howe Spring Bed Company. (See Howe, Otis, assignor.)					
	Howe, Thomas J. (See Buxton & Howe).....(Reissue.)					
162, 821	Howe, Wilhelm, Brooklyn, N. Y. Reciprocating churn.....	May 4, 1875	78	25	7	757
	Howe, William, et al. (See Hoagland, Isaac W., assignor.)					
158, 713	Howe, William F., Galveston, Tex. Musquito-bar frame.....	Jan. 12, 1875	335	114	7	71
171, 021	Howe, William M., Austin, and George H. Howe, Winnebago City, Minn. Harvesting-machine.....	Dec. 14, 1875	345	115	8	1004
	Howell, Charles P. (See Howell, George W. and Charles P.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 096	Howell, George W. and Charles P., Covington, Ky.; said Charles P. assignor to said George W. Metal-creasing machine	Jan. 26, 1875	734	{ 242 243 }	{ 7 8 }	147
170, 565	Howell, Philip, Buena Vista, Pa. Harvester-cutter	Nov. 30, 1875	1232	388	8	930
169, 267	Howells, Joseph C., New York, N. Y. Hook and eye for wearing-apparel	Oct. 26, 1875	920	298	8	717
164, 741	Howenstine, David J., assignor of one-half interest to George N. Elliott, Canal Fulton, Ohio. Sausage-machine	June 22, 1875	859	279	7	1074
159, 823	Howes, Charles, Hudson, Mass. Clothes-drier	Feb. 16, 1875	565	188	7	275
	Howes, Charles O. (See Graves & Howes.)					
160, 523	Howes, John, Worcester, Mass. Chimney-ventilator	Mar. 9, 1875	254	87	7	394
165, 585	Same. Egg-beater	July 13, 1875	443	134	8	78
6, 412	Howes, Orson G., assignor of one-half interest to William R. Norris, Fort Ann, N. Y. Planing-machine	May 4, 1875	246	79	7	779
163, 203	Howes, Thomas C., Cohoes, N. Y. Glue-pot	May 11, 1875	452	146	7	813
168, 998	Howes, Thomas C., Cohoes, assignor to self and Graham & Haines, New York, N. Y. Glue-pot furnace	Oct. 19, 1875	652	215	8	672
	Howie, William. (See Betts & Howie.)					
	Same. same. (Reissue.)					
	Howland & Co. (See Liddell, William, assignor.)					
	Howland, Della. (See Howland, James W. and Della.)					
161, 123	Howland, James W. and Della, New Haven, Conn. Folding table	Mar. 23, 1875	822	269	7	487
168, 496	Howland, Richard, Folkestone, England. Combined pencil-case and calendar	Oct. 5, 1875	158	52	8	587
	Howlet, Charles M., et al. (See Brinkerhoff, Jacob, assignor.) (Reissue.)					
169, 702	Howson, Frank A. and William S., Brooklyn, N. Y. Photographic-plate holder	Nov. 9, 1875	385	121	8	793
168, 497	Howson, Henry, Philadelphia, Pa., assignor to William G. Warner, Wilmington, Del. Machinery for graining, pebbling, and softening leather	Oct. 5, 1875	159	52	8	587
	Howson, William S. (See Howson, Frank A. and William S.)					
166, 462	Hoyle, Abraham, Lowell, Mass. Shell-cutter for metal-turning lathes	Aug. 10, 1875	283	85	8	247
160, 098	Hoyle, Ellis J. and John W., Martin's Ferry, Ohio. Horse-power	Feb. 23, 1875	833	274	7	319
	Hoyle, John W. (See Hoyle, Ellis J. and John W.)					
163, 494	Hoyt, Andrew J., Philadelphia, Pa. Brick-machine	May 18, 1875	733	{ 234 235 }	{ 7 8 }	867
	Hoyt, Buckingham S. (See Hoffman & Hoyt.)					
163, 013	Hoyt, Edwin, Stamford, Conn. Chain-pump bucket	May 11, 1875	276	89	7	791
167, 901	Hoyt, Frederic J. and William H., Batavia, N. Y. Register	Sept. 21, 1875	492	156	8	491
167, 902	Hoyt, Isaac N. and Minot, Wayland, Mich. Spring-bottom bed	Sept. 21, 1875	493	156	8	492
159, 324	Hoyt, James B., Chicago, Ill. Car-lamp	Feb. 2, 1875	80	27	7	195
162, 822	Hoyt, John W., Springfield, Mass. Metallic lathing	May 4, 1875	78	26	7	757
163, 314	Same. Rain-conductor	May 18, 1875	574	183	7	845
163, 315	Same. Metallic lathing	May 18, 1875	574	184	7	846
164, 919	Same. Mode of securing metallic lathing	June 29, 1875	1045	337	7	1105
164, 374	Hoyt, Jonathan J., Chelmsford, assignor to the Standard Lamp and Glass Pipe Company, Boston, Mass. Formation of glass lamps	June 15, 1875	520	171	7	1021
163, 659	Hoyt, Lewis S., Ridgefield, Conn. Stove-implement	May 25, 1875	901	286	7	896
	Hoyt, Minot. (See Hoyt, Isaac N. and Minot.)					
168, 999	Hoyt, Orin W., Cold Water, Mich. Fender	Oct. 19, 1875	652	215	8	673
	Hoyt, Samuel N. (See Bürger, Franz, assignor.)					
	Hoyt, William H. (See Hoyt, Frederic J. and William H.)					
	Hubbard, Alva. (See Ohm, Henry P., assignor.)					
	Hubbard, Gardiner G., et al. (See Bell, Alexander G., assignor.)					
	Hubbard Harvester Company. (See Gordon, Telford & Myers, assignors.)					
	Same. (See Myers, Jacob H., assignor.)					
169, 546	Hubbard, Horace J., assignor of one-half interest to B. F. McLean, Chicopee, Mass. Bobbin	Nov. 2, 1875	207	68	8	762
	Hubbard, James F. (See Potter & Hubbard.)					
170, 737	Hubbard, Linus, and William A. Hart, Buffalo, N. Y. Pump-valve	Dec. 7, 1875	76	24	8	960
	Hubbard, Moses G. (See Gordon, Myers, Telford & Hubbard.)					
162, 386	Hubbard, Moses G., Minneapolis, Minn. Metallic washer	Apr. 20, 1875	741	241	7	685
161, 791	Hubbell, Algernon S., assignor of one-half interest to Rich. M. Hubbell, Norwich, Conn. Umbrella-rib-tip holder	Apr. 6, 1875	171	59	7	594
161, 040	Hubbell, Alonzo F., Sandusky, Ohio. Seat-back for carriages	Mar. 23, 1875	739	243	7	477
168, 157	Hubbell, Myron E., Wolcott, Vt. Reversible plow	Sept. 28, 1875	752	237	8	536
	Hubbell, Richard M. (See Hubbell, Algernon S., assignor.)					
159, 414	Hubbell, Thomas J., Yountville, Cal., assignor to Jonathan Bateman and Thomas J. Hubbell. Grain-separator	Feb. 2, 1875	156	53	7	206
170, 865	Hubbell, Thomas J., assignor of one-half interest to George W. Cornwell, Napa City, Cal. Hand seed-planter	Dec. 7, 1875	186	63	8	975
159, 325	Hubbell, William L., assignor to Raymond Jenkins, New York, N. Y. Toy dancer	Feb. 2, 1875	81	27	7	195
161, 963	Hubbell, William L., New York, assignor to Raymond Jenkins, Brooklyn, N. Y. Toy gymnast	Apr. 13, 1875	339	114	7	628
6, 826	Hubbell, William W., Philadelphia, Pa. Pavement. (Reissue.)	Dec. 28, 1875	989		8	1106
158, 415	Same. same.	Jan. 5, 1875	56		7	17
163, 930	Huber, Allen, Berlin, Canada. Mirror	June 1, 1875	77	26	7	941
169, 703	Huber, Berthold, Brooklyn, N. Y. Fluid-meter	Nov. 9, 1875	386	121	8	793
167, 668	Huber, Edward, Marion, Ohio. Road-scraper	Sept. 14, 1875	267	84	8	451
8, 876	Huber, Stiles, assignor of one-half interest to Aaron Lichten, Philadelphia, Pa. Printing or weaving silk or other fabrics. (Design)	Dec. 28, 1873			8	1076
171, 022	Hubley, Henry H., Central Manor, Pa. Plow	Dec. 14, 1875	347	116	8	1004
162, 171	Hubon, Henry G., Salem, Mass. Lamp-bracket	Apr. 20, 1875	539	177	7	660
166, 106	Huch, Edward M., Brunswick, Germany. Stove-lamp	July 27, 1875	967	298	8	178
166, 381	Hudgens, Robert H., Laurens Court-House, S. C. Harrow and sower	Aug. 3, 1875	183	55	8	224
162, 557	Hudson, Charles H., Chicago, Ill. Steam pumping-engine	Apr. 27, 1875	919	295	7	716
165, 929	Hudson, Edward P., assignor of one-half interest to Nathaniel Huggins, New York, N. Y. Apparatus for introducing refining materials into molten metals	July 27, 1875	800	245	8	155
170, 267	Hudson, George S., Ellisburgh, N. Y. Gage-attachment to wood-boring machines	Nov. 23, 1875	946	296	8	882
160, 912	Hudson, John, Detroit, Mich. Buckle	Mar. 16, 1875	615	201	7	450
170, 268	Hudson, Thomas, Brooklyn, N. Y. Waste-pipe trap	Nov. 23, 1875	946	296	8	882
168, 746	Husted, John W., Schuylerville, N. Y. Stuff-regulator for paper-machines	Oct. 11, 1875	414	135	8	631
	Huestis, Hervey, et al. (See Mackinney, Herbert G., assignor.)					
160, 435	Huey, Alexander G., Garnett, Kans. Washing-machine	Mar. 2, 1875	159	56	7	371
	Huey, Webster, et al. (See Fisher, Simeon L., assignor.)					
160, 524	Huey, William, Salisbury, Md. Machine for sawing shingles	Mar. 9, 1875	255	87	7	394
164, 838	Hufeland, Philip, Mount Vernon, N. Y. Machine for cutting fan-leaves	June 22, 1875	948	{ 307 308 }	{ 7 8 }	1086
164, 839	Same. Manufacture of fans	June 22, 1875	951	308	7	1086
	Huff, Byron. (See Mole, John G., assignor.)					
171, 567	Huffaker, Edward C., Morristown, Tenn. Flood-fence	Dec. 28, 1875	900	294	8	1095

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 926	Huggins, George F. (<i>See</i> Aldrich & Huggins.) Huggins, John, assignor to Richard Chamberlain, Edwin Ludlow, and Edward L. Parker, Birmingham, England. Machine for making welded tubing	May 4, 1875	170	56, 57	7	769
	Huggins, Nathaniel. (<i>See</i> Hudson, Edward P., assignor.) Hughan, Samuel. (<i>See</i> Drake, Levi F., assignor.)					
164, 837	Hughes, Alexander E., New Albany, Ind., assignor to Great American Fire Extinguisher Company, Louisville, Ky. Chemical fire-extinguisher	June 22, 1875	948	307	7	1086
167, 251	Hughes, David W., Saint Louis, Mo. Hand-planter	Aug. 31, 1875	1057	329	8	381
159, 761	Hughes, Francis L., Rochester, N. Y. Child's carriage	Feb. 16, 1875	507	170	7	268
	Hughes, James. (<i>See</i> Dawson & Hughes.) Hughes, John, New Berne, N. C. Mechanical movement	Nov. 9, 1875	386	121	8	793
169, 704	Hughes, John R. (<i>See</i> Langhlin & Hughes.) Hughes, Joseph W., Newburyport, Mass. Bilge-water valve for ships	Aug. 10, 1875	334	102	8	254
159, 326	Hughes, Samuel, and Michael Kelly, Charleston, S. C. Packing for pistons of hydraulic engines	Feb. 2, 1875	82	27	7	195
6, 667	Hughes, Samuel, assignor to self and Michael Kelly, Charleston, S. C. Hydraulic attachment for cotton-presses	Sept. 28, 1875	898	286 287	8	556
161, 235	Hughes, Samuel T., Irondale, Ohio. Nut-lock	Mar. 23, 1875	922	301	7	500
165, 833	Hughes, William D., Philadelphia, Pa. Method of imposing and printing from newspaper-forms	July 20, 1875	695		8	128
167, 535	Hughes, William J., and John A. Lockard, Clyde, Ohio. Ironing-table	Sept. 7, 1875	138	42	8	925
164, 562	Hughes, William W., Philadelphia, Pa. Device for distributing ashes on icy sidewalks	June 15, 1875	686	223	7	1042
167, 252	Hughson, Jacob D., Prairie City, Ill. Shutter-worker	Aug. 31, 1875	1058	329	8	381
158, 495	Hugunin, Robert B., New York, N. Y.	Jan. 5, 1875	129	43	7	27
164, 375	Huie, Charles, and Abraham S. Jenks, Philadelphia, Pa. Driving-bit	June 15, 1875	221	171	7	1021
171, 568	Hull, Aaron J., Sterling, Ill. Wash-board	Dec. 28, 1875	901	294	8	1095
	Hull, Gurdon W. (<i>See</i> Hawkins & Hull.) Hull, John S., Cincinnati, Ohio. Soldering-iron heater	Apr. 27, 1875	1004	322	7	727
162, 657	Hull, Liverus, Boston, Mass. Bed-bottom	July 6, 1875	18	6	8	11
167, 101	Hull, Maurice B., and Andrew Eppler, Brooklyn, N. Y. Ash-sifter	Aug. 24, 1875	901	281	8	352
6, 747	Hull, Thomas, and Nicholas Thomas, Chicago, Ill. Machine for heading bolts. (Reissue.)	Nov. 16, 1875	828	260	8	858
161, 338	Humbert, Leroy, assignor of one-half interest to Henry A. Lyon, Sioux City, Iowa. Harness-snap	Mar. 30, 1875	1038	338	7	523
167, 253	Hume, John F., New York, N. Y. Cast-iron pier	Aug. 31, 1875	1058	329	8	381
	Humphrey, Charles N. (<i>See</i> Jackson & Humphrey.) Humphrey, John D., assignor of one-half interest to William A. Humphrey, New Britain, Conn. Measure and funnel	June 1, 1875	135	47	7	949
164, 000	Humphrey, John P. (<i>See</i> Prentiss, Charles H., assignor.) Humphrey, Willard I. (<i>See</i> Baker, David, assignor.) Humphrey, William A. (<i>See</i> Humphrey, John D., assignor.)					
8, 260	Humphrey, William H., Lansingburgh, N. Y. Back of leather brushes	Apr. 13, 1875			7	610
8, 261	Same	Apr. 13, 1875			7	610
162, 070	Humphreys, Cyrus W., and James S. McCleary, Huntsville, Ohio. Spark-arrester	Apr. 13, 1875	427	142	7	639
	Humphreys, John B. (<i>See</i> Rounds, Thomas W., assignor.) Hund, Bernhard, et al. (<i>See</i> Hall, Nehemiah, assignor.)					
161, 964	Hungerford, Fayette, Rochester, assignor to Amos C. Stearns, Corning, N. Y. Steam-boiler	Apr. 13, 1875	340	114	7	628
162, 071	Hungerford, Oliver T., New Hartford, Conn. Conductor's punch	Apr. 13, 1875	428	143	7	639
	Hunt, Almon. (<i>See</i> Price & Hunt.) Hunt, Almon, and Benjamin M. Butterfield, Macomb, Ill.; said Butterfield assignor to said Hunt. Draft-equalizer	Aug. 31, 1875	1130	355	8	391
168, 498	Hunt, Augustus, Philadelphia, Pa. Snatch-block	Oct. 5, 1875	160	52	8	587
164, 001	Hunt, Augustus, assignor to Knickerbocker Ice Company, Philadelphia, Pa. Storing and removing ice	June 1, 1875	135	48	7	949
165, 764	Hunt, Charles B., Ilion, N. Y. Taper-gage	July 20, 1875	594	182	8	115
167, 776	Hunt, Charles B., Springville, Pa. Process of manufacturing twist-drills	Sept. 14, 1875	360	114	8	464
170, 442	Hunt, Charles W., West New Brighton, N. Y. Ore-hoist	Nov. 30, 1875	1117	352	8	914
	Hunt, Cyrus D. (<i>See</i> Pillsbury, Daniel D. C., assignor.) Hunt, David W., San Francisco, Cal. Burial-case	Sept. 7, 1875	63	19	8	415
167, 451	Hunt, Elisha H., Warren, Ohio. Bottle-stopper	Oct. 19, 1875	653	215	8	673
169, 000	Hunt, Elizabeth S., Cleveland, Ohio. Fruit-jar	Nov. 23, 1875	863	269	8	170
170, 172	Hunt, Francis W., East Orange, and William A. Whitehouse, Newark, N. J. Lunch-box	Nov. 30, 1875	1117	352	8	914
170, 441	Hunt, Frederick R., Leavenworth, Kans. Combined car-coupling, heater-joint, and brake-pipe	Feb. 9, 1875	414	137 138	7	250
159, 679	Hunt, F. W. (<i>See</i> Powls, Levi W., assignor.) Hunt, George P., Boston, Mass. Paint-brush	Nov. 16, 1875	596	185	8	827
169, 906	Hunt, George W. (<i>See</i> Leslie, Ellison, assignor.) Hunt, Henry C., Newark, N. J. Car-coupling	Aug. 10, 1875	284	85	8	247
166, 463	Hunt, James T., Cleveland, Ohio. Package for paint	Feb. 9, 1875	416	138	7	250
159, 680	Hunt, John C., assignor to Chicago Wheat Steaming Machine Manufacturing Company, Chicago, Ill. Apparatus for steaming grain	Sept. 21, 1875	435	138	8	483
167, 837	Hunt, Joseph W. (<i>See</i> Ross, John W., assignor.) (Reissue.) Hunt, R. Finley, Washington, D. C. Process and apparatus for softening and molding celluloid	May 4, 1875	15	6	7	749
162, 752	Hunt, R. J. (<i>See</i> Steele, Richard M., assignor.) Hunt, Reuben, Albion, Mich. Vehicle-top support	Aug. 10, 1875	407	125	8	265
166, 610	Hunt, Robert H. (<i>See</i> Mason, Matthew B., assignor.) Hunt, William D., et al. (<i>See</i> Maxson, John, assignor.) Hunt, William W. (<i>See</i> McMeekin & Hunt.)					
6, 709	Hunt, Zebulon, Hudson, N. Y., assignor, by mesne assignment, to Perry & Co. Coal-stove	Oct. 19, 1875	737	241	8	684
169, 172	Hunt, Zebulon, Hudson, N. Y. Heating-stove	Oct. 26, 1875	836	272	8	706
167, 102	Hunter, Andrew, Quincy, Ill. Middlings-purifier	Aug. 24, 1875	902	281	8	352
	Hunter, Andrew G. (<i>See</i> Eichbaum & Hunter.) Hunter, Frelinghuysen H., Heltonville, Ind. Corn-sheller	May 18, 1875	630	202	7	853
163, 377	Same	May 25, 1875	1000	317	7	909
163, 779	Hunter, George, Elgin, N. Y. Main-spring for watches	Mar. 23, 1875	923	302	7	500
161, 236	Hunter, George, Payson, Ill. Car-starter	June 15, 1875	597	194	7	1030
164, 455	Hunter, George R. (<i>See</i> Hunter, James M. and George R.) Hunter, George W., assignor of one-half interest to William F. Stone, Philadelphia, Pa. Holder for brooms	June 8, 1875	243	83	7	975
164, 088	Same	Sept. 28, 1875	837	267	8	547
168, 255	Hunter, James A., Peoria, Ill. Floor-shield for stoves	Mar. 23, 1875	740	243	7	477
161, 041	Hunter, James B., Ashley, Ill. Gang-plow	Feb. 23, 1875	834	274	7	319
160, 099	Hunter, James E., North Adams, Mass. Side of a falling-mill case	Jan. 5, 1875			7	5
7, 982						

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171, 569	Hunter, James M. and George R., Clarinda, Iowa. Land roller and marker.....	Dec. 28, 1875	901	295	8	1095
	Hunter, John K. (See Patterson, Lemuel, assignor.)					
	Hunter, Milo, et al. (See Christy, John, assignor.)					
167, 767	Hunter, William R., Toledo, assignor to Edward W. Kelley, Painesville, and Joseph G. Fisher, Toledo, Ohio. Car-coupling.....	Sept. 14, 1875	361	114	8	464
161, 514	Hunting, Newton C., Lincoln, Ill. Cartridge-shell.....	Mar. 30, 1875	1211	389	7	545
	Hunting, William M. (See Le Roy & Hunting.)					
162, 558	Hunting, William W., Aiken, S. C. Automatic fan.....	Apr. 27, 1875	920	295	7	716
160, 597	Huntington, Gideon, Toronto, Canada. Washing-machine.....	Mar. 9, 1875	319	108	7	403
171, 135	Huntington, John, Cleveland, Ohio. Device for impregnating timber with antiseptic fluids.....	Dec. 14, 1875	458	150	8	1018
171, 136	Same..... same.....	Dec. 14, 1875	459	150	8	1019
	Huntington, John D. (See Dennison, Albert S., assignor.)					
168, 643	Huntington, Joseph D., Chicago, Ill. Tool for turning emery-wheels.....	Oct. 11, 1875	326	106	8	618
163, 074	Huntley, William W., Abel P. Holcomb, and August Heine, Silver Creek, N. Y. Mid-dlings-purifier.....	May 11, 1875	332	108	7	798
163, 593	Hunton, Robert W., Fall River, Mass. Stopping-mechanism for railway-heads.....	May 25, 1875	845	267	7	888
163, 204	Huntoon, Benjamin B., Louisville, Ky. Relief-plate for printing, &c.....	May 11, 1875	453		7	813
	Huntoon, George H. (See Edwards & Huntoon.)					
169, 705	Huntress, William, Richmond, Va. Invalid-bedstead.....	Nov. 9, 1875	387	121	8	793
	Hunting, Benjamin, et al. (See Hamilton, Alexander, assignor.) (Reissue.)					
6, 641	Hunzinger, George, New York, N. Y. Reclining-chair..... (Reissue.)	Sept. 14, 1875	408	131	8	472
160, 198	Hupplesberg, Frederick W., Brooklyn, N. Y. Braiding-machine.....	Feb. 23, 1875	916	{ 301 } 302	{ 7 } 8	330 426
167, 536	Hurd, George H., Clinton, assignor to A. E. Brocket, Branford, Conn. Oar-lock.....	Sept. 7, 1875	139	42	8	
	Hurd, George R. (See Davis, James S., assignor.)					
170, 858	Hurd, Lorenzo D., assignor of one-half interest to Thomas Puller, Wellsville, N. Y. Run-ning-gear.....	Dec. 7, 1875	179	61	8	974
169, 995	Hurd, Seth T., Gonic, N. H., assignor to self and Thomas Sanderson, Lawrence, Mass. Loom-shuttle check and binder.....	Nov. 16, 1875	669	210	8	837
6, 549	Hurd, William C., Watertown, Conn. Door..... (Reissue.)	July 20, 1875	768	235	8	139
161, 684	Same..... Door-bolt.....	Apr. 6, 1875	82	29	7	581
161, 965	Same..... Door.....	Apr. 13, 1875	341	114	7	628
171, 137	Huret, Narcisse, Paris, France. Vehicle.....	Dec. 14, 1875	460	151	8	1019
	Hurlburt, Charles A. (See Hayton & Hurlburt.)					
165, 099	Hurlburt, Charles A., Ypsilanti, Mich. Buck-saw frame.....	June 29, 1875	1202	386	7	1126
162, 172	Hurlburt, J. Burrell, assignor of one-half interest to William P. Dickinson, Chicago, Ill. } Apparatus for laying cement pavement in blocks..... } Hurst, Ernst. (See Wanner, Joseph, assignor.)	Apr. 20, 1875	540	{ 177 } 178	{ 7 } 8	661
	Hurtz, William P. (See Winter, Henry, assignor.)					
	Husbands, Joseph D. (See Philbrick, Warren C., assignor.) (Reissue.)					
159, 246	Husbands, Joseph D., jr., assignor to American Fire Kindler Company, Saint Louis, Mo. Fire-kindler..... (Reissue.)	Jan. 19, 1875	661	215	7	123
161, 042	Huse, George A., Newburyport, Mass. Car-starter.....	Mar. 23, 1875	741	244	7	477
168, 024	Husher, Elijah, Scott Dale, Pa. Churn.....	Sept. 21, 1875	594	190	8	507
162, 387	Huskamp, Anton, Montague, Mich. Cap-box.....	Apr. 20, 1875	741	241	7	685
6, 660	Huson, Edgar, Ithaca, N. Y., assignor, by mesne assignments, to Eliza G. Halsey. Wagon..... (Reissue.)	Sept. 28, 1875	890	284	8	555
158, 942	Hussey, Albert B., New York, N. Y. Chimney-cap.....	Jan. 19, 1875	568	188	7	117
158, 943	Hussey, Charles A., New York, N. Y. Brush.....	Jan. 19, 1875	569	189	7	117
159, 824	Same..... Car-axle box.....	Feb. 16, 1875	565	188	7	275
166, 527	Same..... Electro-magnetic engine.....	Aug. 10, 1875	335	102	8	254
164, 089	Hussey, Elisha C., Rutherford Park, N. J. Reversible latch.....	June 8, 1875	243	84	7	975
6, 438	Hussey, John H., Baltimore, Md., assignor, by mesne assignments, to Adler, Clement & Wiel and Elbridge W. Bubier. Shoe..... (Reissue.)	May 18, 1875	812	256	7	876
159, 181	Hussey, John H., assignor of one-half interest to Adler, Clement & Wiel, Baltimore, Md. Machinery for forming shoe-tips.....	Jan. 26, 1875	811	266	7	157
168, 256	Hussey, John H., assignor to Abraham S. Adler, Lewis P. Uriel, James Clement, and John H. Hussey, Baltimore, Md. Machine for beating leather.....	Sept. 28, 1875	838	267	8	548
166, 876	Hussey, Marcus L. M., Menlo Park, assignor of one-half interest to George W. Barker and William Ettinger, Jersey City, N. J. Compound telegraph-key.....	Aug. 17, 1875	671	208	8	311
158, 842	Hussey, Sylvanus, Gowanda, N. Y. Fulling-mill.....	Jan. 19, 1875	473	159	7	105
	Hussey, Wells & Co. (See Holmes, Josiah, assignor.)					
2, 493	Hussmann, Luder G., Guttenberg, N. J. Tobacco-pipe stem..... (Design.)	July 20, 1875			8	95
160, 525	Husted, Julius H., Chicago, Ill. Fastener for meeting-rails of sashes.....	Mar. 9, 1875	256	87	7	394
166, 528	Hutchin, Isaac W., Clinton, Ill. Harrow.....	Aug. 10, 1875	336	103	8	254
161, 792	Hutchings, Charles, Kansas City, Mo. Rein-holder.....	Apr. 6, 1875	172	59	7	594
	Hutchings, George S. (See Nordstrom & Hutchings.)					
	Hutchings, Hezekiah. (See Lucky, Mahlon M., assignor.)					
162, 173	Hutchins, Charles, Carthage, Mo. Corn-planter.....	Apr. 20, 1875	541	178	7	661
	Hutchins, Stilson, et al. (See Berryman, Bayard A., assignor.)					
170, 952	Hutchinson, Elias S., Baltimore, Md. Filter for liquids holding solid impurities.....	Dec. 14, 1875	781	95	8	996
	Hutchinson, Frank E. (See Holliday, James G., assignor.)					
162, 658	Hutchinson, James B., Cambridge, and George W. Fairfield, Boston, Mass. Tea and coffee pot.....	Apr. 27, 1875	1005	322	7	727
	Huchinson, James R. (See Armstrong, Edward, assignor.)					
169, 706	Hutchinson, Jehiel B., Spring Valley, Minn. Cover for tumbling-rods.....	Nov. 9, 1875	388	122	8	793
	Hutchinson, John A. (See Armstrong & Hutchinson.)					
166, 777	Hutchinson, John W., Baltimore, Md. Shirt.....	Aug. 17, 1875	579	178	8	298
165, 834	Hutchinson, Moses, Owatonna, Minn. Butter-worker.....	July 20, 1875	697	212	8	128
164, 090	Hutchinson, Samuel, jr., Salem, Mass. Machine-oiler.....	June 8, 1875	244	84	7	975
161, 415	Hutchinson, Thomas, Chicago, Ill. Bill-file.....	Mar. 30, 1875	1115	360	7	532
	Hutchison, James. (See Gerhardt, John, assignor.)					
8, 399	Hutchison, James, Newark, N. J., assignor to Thomas Potter, Sons & Co. Philadelphia, Pa. Oil-cloth..... (Case A. Design.)	June 15, 1875			7	1014
8, 400	Same..... same..... (Case B. Design.)	June 15, 1875			7	1014
8, 401	Same..... same..... (Case C. Design.)	June 15, 1875			7	1014
8, 402	Same..... same..... (Case D. Design.)	June 15, 1875			7	1014
8, 403	Same..... same..... (Case E. Design.)	June 15, 1875			7	1014
160, 327	Hutchison, James A., Pittsburgh, Pa. Balanced valve.....	Mar. 2, 1875	64	23	7	358
164, 456	Hutchison, James A., and John W. Govier, Pittsburgh, Pa.; said Govier assignor to said Hutchison. Steam-engine-valve gear.....	June 15, 1875	598	194	7	1030
	Hutchison, M., et al. (See Hearn, William G., assignor.)					
	Huth, Louis C., et al. (See Harris, Charles C., assignor.)					
168, 499	Hutton, Jesse M., Richmond, Ind. Construction of caskets and coffins.....	Oct. 5, 1875	161	52	8	587

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159, 097	Hutton, William, Philadelphia, Pa. Flask for casting pulleys.	Jan. 26, 1875	736	243	7	147
169, 105	Hyams, Hyam J., Pittsburgh, Pa., assignor of one-half interest to Peter L. Bannen. Carbureter.	Oct. 26, 1875	777	252	8	697
	Hyatt, Charles J. (See Voth & Hyatt.)					
	Hyatt, Charles M. (See Hyatt, John W. and Charles M.)					
	Same. (See Hyatt, Isaiah S., John W., and Charles M.)					
162, 072	Hyatt, Charles M., Albany, N. Y., assignor to Embossing Company. Domino.	Apr. 13, 1875	428	143	7	639
161, 515	Hyatt, Frank A., Denison, Tex. Air-cooling apparatus.	Mar. 30, 1875	1212	389	7	545
	Hyatt, Isaiah S. (See Hyatt, John W. and Josiah S.)					
164, 840	Hyatt, Isaiah S. and John W., Newark, N. J., and Charles M. Hyatt, Albany, N. Y., assignors to Embossing Company. Machine for spotting comices.	June 22, 1875	951	308	7	1086
	Hyatt, John W. (See Hyatt, Isaiah S., John W., and Charles M.)					
159, 681	Hyatt, John W., Newark, N. J., and Charles M. Hyatt, Albany, N. Y. Slate-frame.	Feb. 9, 1875	417	139	7	250
160, 199	Hyatt, John W. and Charles M., Newark, N. J. Box-machine and box.	Feb. 23, 1875	917	302	7	331
164, 648	Hyatt, John W. and Isaiah S., Newark, N. J. Comb-cutting machine.	June 22, 1875	774	254	7	1063
165, 234	Hyatt, John W. and Isaiah S., Newark, N. Y., assignors to Celluloid Manufacturing Company, New York, N. Y. Grinding-wheel.	July 6, 1875	84		8	20
6, 630	Hyatt, Theodore, New York, N. Y. Illuminating-tile.	Sept. 7, 1875	198	62	8	433
165, 835	Same. (Reissue).	July 20, 1875	698	212	8	128
166, 107	Same. Fire-proof safe.	July 27, 1875	968	298	8	178
	Hyberger, Frank. (See Hyberger, John D. and Frank.)					
170, 269	Hyberger, John D. and Frank, Timber Ridge, Tenn. Fence.	Nov. 23, 1875	947	296	8	882
164, 303	Hyde, Charles, Chelmsford, Mass. Stove.	June 8, 1875	440	146	7	1001
	Hyde, George W. (See Wallace & Hyde.)					
166, 611	Hyde, James P., assignor to Frederick A. Baldwin, New York, N. Y. Stuffing-box and valve mechanism for hydrants, &c.	Aug. 10, 1875	408	125	8	265
171, 514	Hyde, James P., assignor to McNab and Harlin Manufacturing Company, New York, N. Y. Water-closet valve.	Dec. 28, 1875	853	278	8	1087
6, 389	Hyde, James R., Troy, N. Y. Cooking-stove.	Apr. 20, 1875	813	264	7	694
6, 390	Same. Reservoir cooking-stove.	Apr. 20, 1875	816	264	7	694
159, 327	Hyde, John A., Englewood, N. J. Runner attachment for vehicles.	Feb. 2, 1875	83	28	7	195
170, 373	Hyde, Joseph, Wilmington, Del. Pipe-joint.	Nov. 23, 1875	1037	325	8	894
170, 566	Hyman, John, assignor of two-thirds interest to Almon Warner, Belvidere, N. J. Wheel-hub.	Nov. 30, 1875	1232	388	8	930
162, 477	Hyman, John H., Tippecanoe City, Ohio. Vehicle-wheel hub.	Apr. 27, 1875	850	273	7	707
165, 836	Hymer, Stewart B., Terre Haute, Ind. Candy-spinner.	July 20, 1875	699	213	8	128
166, 778	Hynson, Joseph H., Alexandria, La. Sugar cooling and draining apparatus.	Aug. 17, 1875	579	178	8	298
170, 953	Hynson, Nathaniel O., New Orleans, La. Mode of strapping packages with wire.	Dec. 14, 1875	783	95	8	996
159, 577	Hyslop, John, jr., assignor to Hiram H. and George O. Jenkins, Abington, Mass. Machine for making metal shoe-shanks.	Feb. 9, 1875	326	107	7	237
6, 810	Ide, Albert L., Springfield, Ill. Steam-radiator.	Dec. 21, 1875	784	259	8	1070
	Ide, Henry, et al. (See Clough, Theodore, assignor.)					
169, 173	Ide, Henry, New York, N. Y. Lamp-lighting apparatus.	Oct. 26, 1875	837	272	8	706
161, 617	Ide, James C., Buckingham Township, Pa. Safety-pocket.	Apr. 6, 1875	24	10	7	572
8, 308	Ihlenburg, Herman, assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-types.	May 4, 1875			7	742
8, 314	Same. (Design).	May 4, 1875			7	742
8, 644	Same. Printing-type.	Sept. 7, 1875			8	403
	Iler, John W. (See Iler, William, assignor.)					
159, 098	Iler, William, assignor to self and John W. Iler, Shreveport, La. Device for baling cotton.	Jan. 26, 1875	737	243	7	147
167, 452	Iles, George, Montreal, Canada. Mariner's compass.	Sept. 7, 1875	63	20	8	415
167, 338	Iles, Henry J., Seymour, assignor to self and Henry Maiden, Bridgeport, Conn. Door-bolt.	Aug. 31, 1875	1130	355	8	391
162, 927	Illingworth, Benjamin, assignor of two-thirds interest to R. S. Benson and A. M. Mott, Hampton, Iowa. Harvester.	May 4, 1875	172	57, 58	7	770
166, 700	Illingworth, John, Newark, N. J. Mold for ingots.	Aug. 17, 1875	507	155	8	287
	Ilsley & Co., S. A. (See Camp, Joseph E., assignor.)					
	Same. (See Ilsley, Silas A., assignor.)					
163, 075	Ilsley, Silas A., assignor to S. A. Ilsley & Co., New York, N. Y. Canister.	May 11, 1875	335	109	7	798
160, 675	Imbach, Martin G., Brooklyn, N. Y. Windlass.	Mar. 9, 1875	383	130	7	413
162, 073	Imboden, John D., Richmond, Va. Car-axle box.	Apr. 13, 1875	429	143	7	639
170, 374	Imboden, John D., assignor, by mesne assignments, to Richmond Car Lifter Company, Richmond, Va. Railway-car lifter.	Nov. 23, 1875	1037	326	8	895
170, 443	Imhaeuser, William, Brooklyn, N. Y. Watchman's time-detector.	Nov. 30, 1875	1119	352	8	914
160, 676	Imlay, Charles G., assignor to the American Car Fare Register Company, Philadelphia, Pa. Fare-box.	Mar. 9, 1875	384	130	7	413
	Immel, David. (See Boswell & Immel.)					
169, 811	Imray, John, London, England. Switch-signal.	Nov. 9, 1875	494	155	8	806
	Indestructible Building Material Company. (See Lyon, Arza T., assignor.)					
	Indiana Car Company. (See Shield, David, assignor.)					
159, 578	Inesly, Edwin J., New York, N. Y. Hair-holder.	Feb. 9, 1875	326	107	7	237
	Ingalls, Gustavus W. (See Parker, William D., assignor.)					
	Ingalls, G. W. (See Wilcox, Alfred W., assignor.) (Reissue.)					
170, 567	Ingalls, Joshua K., New York, N. Y. Vault-cover.	Nov. 30, 1875	1233	388	8	930
158, 944	Ingalls, Nathaniel P., Saint Paul, Minn. Thill-coupling.	Jan. 19, 1875	569	189	7	117
163, 014	Ingalls, Samuel S., Chicago, Ill. Gas-regulator.	May 11, 1875	276	89	7	791
167, 453	Ingalls, William A., Alton, assignor to Ruthven W. Pike, Chicago, Ill. Link.	Sept. 7, 1875	65	20	8	415
160, 913	Ingersoll, Ebon C. (See Strong, Samuel, assignor.)					
	Ingersoll, Platt G., Brooklyn, N. Y. Bed-bottom.	Mar. 16, 1875	616	201	7	451
	Ingersoll Rock Drill Company. (See Ingersoll, Simon, assignor.) (Reissue.)					
6, 292	Ingersoll, Simon, Brooklyn, assignor, by mesne assignments, to Ingersoll Rock Drill Company, New York, N. Y. Machine for drilling rock.	Feb. 16, 1875	730	242, 243	7	297
6, 293	Same. Rock-drill.	Feb. 16, 1875	732	243	7	297
168, 257	Inghels, Alphonse, Termonde, Belgium. Awning.	Sept. 28, 1875	838	278	8	544
	Inglis, James. (See Inglis, William and James.)					
	Inglis, Nicholas. (See Bulger & Inglis.)					
162, 074	Inglis, William, Bolton, England, and James Inglis, Montreal, Canada. Marine grain-vessel.	Apr. 13, 1875	430	143	7	639
	Ingraham, George W. (See Phelps, Gilson V., assignor.)					
162, 174	Ingraham, Lewis S., Florence, Mass. Skate.	Apr. 20, 1875	542	178	7	661
168, 025	Innes, David K., Cincinnati, Ohio. Composite mantel for fire-places.	Sept. 21, 1875	595	190	8	507
	Insull, Thomas. (See Spicer & Insull.)					
	Ionia Shingle Machine Manufacturing Company. (See Austin, James E., assignor.)					
	Irelan, Lambert. (See Rawlings & Irelan.)					

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164, 091	Ireland, Japhet A., Bakersville, N. J. Machine for bunching and sizing asparagus	June 8, 1875	245	84	7	975
165, 675	Irick, Thomas A., Humansville, Mo. Washing-machine	July 20, 1875	543	166	8	107
167, 768	Irish, Nelson E., Fenton, Mich. Neck-yoke coupling	Sept. 14, 1875	362	115	8	464
	Irlbacker, John, <i>et al.</i> (See Bickel, John G., assignor.)					
	Same..... (See Duman, Stephen A., assignor.)					
	Irons, Bradford O. (See Allen, Joseph B., assignor.)					
166, 382	Irrgang, Benjamin, Philadelphia, Pa. Letter-block apparatus	Aug. 3, 1875	185	55	8	225
166, 009	Irvin, Thomas W., Eureka, Cal., assignor of one-half interest to Alexander Gilmore, A. Dolan, E. Brown, and Maurice F. Moloney. Apparatus for separating gold from sand, &c.	July 27, 1875	874	269	8	164
159, 328	Irvine, Thomas, Muscatine, Iowa. Sheer-boom	Feb. 2, 1875	83	28	7	195
165, 930	Irving, Nicholas, Susquehanna Depot, Pa. Locomotive smoke-stack	July 27, 1875	801	246	8	155
168, 334	Irwin, David, Byron Centre, Mich. Earth-scraper	Oct. 5, 1875	16	6	8	567
167, 838	Isaacs, Ernest G., Kingston, Jamaica. Driving belt and band	Sept. 21, 1875	4 5	139	8	483
162, 075	Isaacs, Jacob L., and Richard Halliday, Saint Louis, Mo. Step-ladder	Apr. 13, 1875	431	144	7	6-9
163, 205	Same	May 11, 1875	453	146	7	813
166, 464	Isaacs, John D., Wilmington, Del. Belt-shifter	Aug. 10, 1875	286	85	8	247
165, 448	Isbell, Robert H., New Milford, Conn. Manufacture of buttons	July 13, 1875	318	93	8	59
169, 268	Same	Oct. 26, 1875	921	299	8	717
	Isenminger, David H. (See Falcun & Isenminger.)					
167, 537	Isham, Alfred H., Lawrence, Kans. Hinge	Sept. 7, 1875	140	43	8	426
168, 158	Isherwood, Thomas, Westerly, R. I. Welt-stop mechanism	Sept. 28, 1875	753	238	8	536
6, 761	Isherwood, Thomas, and William Nuttall, assignors, by mesne assignments, to National Woolen Loom Stop Motion Company, Westerly, R. I. Welt-stop mechanism for looms	Nov. 23, 1875	1099	345	8	903
8, 651	Isidor, Moritz, and Ferdinand Hein, New York, N. Y. Cap	Sept. 14, 1875			8	439
165, 100	Same	June 29, 1875	1202	386	7	1126
167, 538	Isidor, Moritz, New York, and Ferdinand Hein, Brooklyn, N. Y. Hat and cap	Sept. 7, 1875	141	43	8	426
158, 844	Iske, Anthony, Lancaster, Pa. Ironing-board	Jan. 19, 1875	474	159	7	105
162, 823	Same	May 4, 1875	79	26	7	757
158, 843	Iske, Anthony, and Jerome Baumgarten, Lancaster, Pa. Carpenter's sliding gage and square	Jan. 19, 1875	473	159	7	105
161, 793	Israel, Alexander, Kimmswick, Mo. Washing-machine	Apr. 6, 1875	173	59	7	594
6, 819	Iversen, Hans, New York, N. Y. Stair-rod	Dec. 21, 1875	795	262	8	1071
8, 832	Ives & Bro., John A. (See Sardo, Albert E., assignor.)					
169, 547	Ives, Edward R., Bridgeport, Conn. Toy chariot	Dec. 7, 1875			8	945
166, 779	Ives, Edward R., and Joseph W. Pilkington, Bridgeport, Conn. Automatic toy	Nov. 2, 1875	207	69	8	763
163, 495	Ives, George L., assignor to self and Henry L. Keith, Galesburgh, Mich. Grain-drill teeth.	Aug. 17, 1875	580	178	8	298
169, 548	Ives, James, assignor to Ives, Woodruff & Co., Mount Carmel, Conn. Felly-joint plate	May 18, 1875	740	235	7	867
159, 579	Ives, Joseph S., New York, N. Y. Paper-perforating machine	Nov. 2, 1875	208	69	8	763
	Ives, Lewis J., and John Leary, Medina, N. Y. Journal-box	Feb. 9, 1875	327	107	7	237
	Ives, Woodruff & Co. (See Ives, James, assignor.)					
160, 677	Jack, Alexander, Barnet, Vt. Method and apparatus for dyeing wool on sheep-skins....	Mar. 9, 1875	385	130	7	413
	Jack, Andrew J., <i>et al.</i> (See Meals, Joseph D., assignor.)					
169, 812	Jack, Robert, assignor to self and Thomas Gannon, Jersey City, N. J. Wrench	Nov. 9, 1875	496	156	8	807
161, 685	Jack, Thomas G., <i>et al.</i> (See Meals, Joseph D., assignor.)					
169, 360	Jackman, Joseph, Richmond, Ohio. Corn dropper	Apr. 6, 1875	83	29	7	581
	Jackman, Solon S., Janesville, Wis. Grain-binder	Nov. 2, 1875	38	11	8	740
	Jackman, William A. (See Harlow, Joseph B., assignor.)					
169, 996	Jackson, Alexander T. (See Beddow & Jackson)					
163, 076	Jackson, Andrew, Mohawk Valley, Cal. Machine for operating derricks	Nov. 16, 1875	670	210	8	837
163, 077	Jackson, Byron, Woodland, Cal. Feeder for thrashing-machines	May 11, 1875	335	109	7	798
	Same	May 11, 1875	336	109	7	798
	Jackson, Caleb H. (See Bird & Sullenberger, assignors.)					
158, 497	Jackson, Chancey B., and Charles N. Humphrey, Philadelphia, Pa.; said Humphrey assignor to Hoover, Harris & Co. Roller log-slide	Jan. 5, 1875	131	44	7	27
165, 333	Jackson, Charles E., Middletown, Conn. Snap-hook	July 6, 1875	173	53	8	32
164, 173	Jackson, Charles R. (See Jackson, Samuel S. and Charles R.)					
171, 570	Jackson, David, assignor to Alfred H. and Herbert L. Andrews and Thomas S. Hayden, Chicago, Ill. Blackboard-rubber	June 8, 1875	318	108	7	985
	Same	Dec. 28, 1875	902	295	8	1095
165, 101	Jackson, D. W. B., <i>et al.</i> (See Robbins, Joseph A., assignor.)					
170, 738	Jackson, Edwin A., New York, N. Y. Stand for fire-irons	June 29, 1875	1203	337	7	1126
158, 416	Jackson, Hannibal R., assignor to self and Thomas J. Roads, La Fayette, Ind. Whiffle-tree-fastening	Dec. 7, 1875	76	24	8	960
158, 496	Jackson, Henry S., New York, N. Y. Book of letter-sheets	Jan. 5, 1875	57	20	7	17
160, 678	Jackson, John R., Putnamville, Ind. Head-block for saw-mills	Jan. 5, 1875	131	43	7	27
169, 679	Jackson, Noble, Higginsville, N. Y. Vehicle-spring equalizer	Mar. 9, 1875	386	{ 1-0 } 131	{ 7 } 413	
168, 747	Same	Mar. 9, 1875	386	131	7	413
159, 826	Jackson, Osceola, Portland, Me. Steam and vacuum pump	Oct. 11, 1875	4-5	135	8	631
	Jackson, Peter H., New York, N. Y. Steering-apparatus	Feb. 16, 1875	567	{ 188 } 189	{ 7 } 275	
168, 838	Jackson, R. (See Lidren, Christopher, assignor.)					
8, 463	Jackson, Samuel S., Bloomfield, and Charles R. Jackson, Newark, N. J. Nest for fowls	Oct. 19, 1875	506	166	8	652
	Jackson, Theo. S. (See Smith, Albert C., assignor.)					
167, 539	Jackson, William W., assignor to David W. Bruce, Philadelphia, Pa. Printing-type. (Design)	July 6, 1875			8	4
160, 612	Jacob, Frederick, Newark, N. J. Propeller for vessels	Sept. 7, 1875	141	43	8	426
163, 780	Jacobi, Louis, Baltimore, Md., assignor of one-half interest to Miron A. Ward, New York, N. Y. Apparatus for drying coal	Aug. 10, 1875	409	126	8	265
	Jacobs, George T., assignor of one-half interest to Thomas A. Mitchell, Washington, D. C. Street-railway switch	May 25, 1875	1001	318	7	909
	Jacobs, James M. (See Jones, Samuel G., assignor.)					
164, 174	Jacobs, John B. (See Miller, Asher M., assignor.)					
169, 549	Jacobs, Wilhelm, Charleston, S. C. Bog-boot for animals	June 8, 1875	319	108	7	985
	Jacobs, William E. (See Mix & Jacobs.)					
164, 841	Jacobsen, Charles F., and George M. Murphy, New York, N. Y. Apparatus for regulating the flow of gas to burners	Nov. 2, 1875	210	69	8	763
159, 416	Jacobson, Jacob. (See Parker, Henry, assignor.)					
171, 225	Jacobson, Jacob, Saint Joseph, Mich. Car-coupling	June 22, 1875	952	308	7	1086
	Jacobus, Pierson, and David R. Ambrose, Romulus, N. Y. Harrow-attachment for plows	Feb. 2, 1875	157	53	7	206
	Jacobus, Samuel H. (See Erbe, Barthel, assignor.)					
	Jacoby, George D., assignor of one-half interest to John G. Jacoby, Berwick, Ohio. Tire-upsetter	Dec. 21, 1875	571	187	8	1041

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159, 415	Jacoby, Gottfried, assignor to Canal and Claiborne Street Railway Company, New Orleans, La. Draw-head for street-cars.	Feb. 2, 1875	157	53	7	206
158, 714	Jacoby, John G. (See Jacoby, George D., assignor.)					
159, 825	Jacoby, Sigmund, New York, N. Y. Packing cigars.	Jan. 12, 1875	336	115	7	71
159, 929	Same. Cigar-box	Feb. 16, 1875	566	188	7	275
171, 571	Same. Cigar-packing implement.	Feb. 16, 1875	663	219	7	288
166, 529	Jacoby, William T., Uniontown, Pa. Railway-bulletin box.	Dec. 28, 1875	903	295	8	1095
160, 680	Jado, Joseph G., Matamoras, Pa. Truss.	Aug. 10, 1875	337	103	8	254
165, 235	Jaeger, Gustav L., New York, N. Y. Hat-box	Mar. 9, 1875	387	131	7	413
166, 613	James, Alfred, Seymour, Ind. Automatic air-brake for cars.	July 6, 1875	84	25, 26	8	20
162, 824	James, Bushrod W., Philadelphia, Pa. Spring-clasp for holding currency, &c.	Aug. 10, 1875	409	126	8	265
169, 174	James, Christopher, Bristol, England. Apparatus for exhausting and propelling air.	May 4, 1875	80	26, 27	7	757
170, 850	James, Christopher R., Jersey City, N. J. Piston-packing.	Oct. 26, 1875	837	272	8	706
171, 138	James, Debra C. (See Guy, Henry M., assignor.)					
159, 827	James, Eben, Tyngsborough, assignor to Benjamin F. Stevens, Lowell, Mass. Machine for making boxes.	Dec. 7, 1875	180	61	8	975
165, 586	James, Henry, assignor to Gifford Brothers, Hudson, N. Y. Hydrant-valve.	Dec. 14, 1875	460	151	8	1019
162, 559	James, John W., and Josiah Streit, assignors to Josiah and James Streit, Centre Town, Mo. Washing-machine.	Feb. 16, 1875	568	189	7	275
169, 001	James, Joseph, Bosanquet, Canada. Bag-holder.	July 13, 1875	444	134	8	78
6, 525	James, Remington, et al. (See Winne & Kent, assignors.)					
6, 526	James, Theodore, North Adams, Mass. Lantern-handle.	Apr. 27, 1875	921	295	7	716
6, 345	Jameson, Edward T. (See Quinn, John J., assignor.)					
160, 019	Jamin, Nicolaus, New York, N. Y. Process of forming a tight joint between the mouth-piece and lid of gas-retorts.	Oct. 19, 1875	653	215	8	673
8, 708	Jamison Boot and Shoe Crimping Machine Company, S. W. (See Jamison, Samuel W., assignor.)					
6, 525	Jamison, Samuel W., Newark, N. J., assignor, by mesne assignments, to S. W. Jamison Boot and Shoe Crimping Machine Company, New York, N. Y. Machine for crimping leather for boots and shoes.	June 29, 1875	1254	403½	7	1135
6, 526	Same. Crimping-machine.	June 29, 1875	1258	403½	7	1135
6, 345	Janes, Charles P., Boston, assignor, by mesne assignments, to William D. Atkinson, jr., Lynn, Mass. Atomizer.	Mar. 23, 1875	1011	330	7	512
160, 019	Janin, Albert C. (See Jas, Auguste, assignor.)					
8, 708	Jansounean, Joshua, Newark, N. J. Toy wing-wheel.	Feb. 23, 1875	767	253	7	309
6, 770	Jáques, George, Boston, Mass. Bottle.	Oct. 11, 1875			8	600
6, 771	Jaquith, Jerome N. B. (See Bidwell & Jaquith.)					
6, 515	Jarboe, John W. (See Gandolfo, Joseph, assignor.)					
166, 383	Jarboe, John W., Green Point, N. Y. Paper wagon-body.	Nov. 30, 1875	1320	417	8	941
166, 383	Same. Paper barrel.	Nov. 30, 1875	1321	417	8	941
160, 681	Jarboe, John W., Green Point, N. Y., assignor, by mesne assignments, to J. F. Seiberling, trustee. Paper barrel.	June 29, 1875	1245	400	7	1133
164, 175	Jarboe, John W., Green Point, assignor to self and Joseph Gandolfo, Brooklyn, N. Y. Machine for pressing sugar into blocks.	Aug. 3, 1875	185	55	8	225
161, 237	Jarecki, Frederick. (See Crowell, Helen C., assignor.)					
162, 659	Jarrell, Edwin, Thorntown, Ind. Thill-coupling.	Mar. 9, 1875	388	131	7	413
162, 660	Jarrell, James, Thorntown, Ind. Tongue-support.	June 8, 1875	319	109	7	985
164, 457	Jarrell, William, Humboldt, Tenn. Plow.	Jan. 22, 1875			7	222
168, 500	Jarves, Horatio D. (See Peters, William, assignor.)					
168, 501	Jarvis, Stephen, et al. (See Adams, Calvin, assignor.)					
164, 176	Jas, Auguste, assignor of one-half interest to Albert C. Janin, New Orleans, La. Condenser for ice-machines.	Mar. 23, 1875	924	302	7	500
171, 226	Same. Refrigerating-tank for ice-machines.	Apr. 27, 1875	1006	322	7	727
162, 076	Same. Apparatus for cooling and circulating air in buildings.	Apr. 27, 1875	1007	323	7	727
164, 092	Jas, Auguste, New Orleans, La. Dissolving tubasic phosphate of lime in water containing carbonic acid.	June 15, 1875	599		7	1030
167, 254	Jas, Auguste, assignor of one-half interest to Albert C. Janin, New Orleans, La. Ice-machine.	Oct. 5, 1875	161	53	8	588
165, 587	Ja-, Auguste, New Orleans, La. Condenser for ice-machines.	Oct. 5, 1875	162	53	8	588
164, 176	Jasper, Carl E. F. (See Donath & Jasper.)					
171, 226	Jasper, George F., Freeburgh, Ill. Feed-water heater and filter.	June 8, 1875	320	109	7	985
162, 076	Jay, James M., New York, assignor to self and George Lester, Brooklyn, N. Y. Machine for cutting glaziers' points.	Dec. 21, 1875	627	205	8	1049
164, 092	Jaynes, Daniel W. (See Stout, Alonzo D., assignor.)					
167, 254	Jaynes, John Q., assignor of one-half interest to Samuel B. Mayer, Cincinnati, Ohio. Vapor-burner.	Apr. 13, 1875	432	144	7	640
165, 587	Jeanjaquet, Eugene, Springfield, Ill. Safety-wheel for watches.	June 8, 1875	245	84	7	975
164, 176	Jeans, William F., and David H. Bailey, Ferndale, Cal. Machine for counting stock.	Aug. 31, 1875	1059	329, 330	8	3 1
165, 587	Jeantaud, Charles, Paris, France. Vehicle-wheel.	July 13, 1875	444	135	8	78
170, 173	Jebb, Thomas A. (See Brush, Louis, assignor.)					
166, 780	Same. (See Safford, James B., assignor.)					
170, 088	Jefferis, Howard T. (See Naylor & Jefferis.)					
159, 329	Jefferys, John. (See Welch & Jefferys.)					
8, 716	Jefferys, John C. W., Tottenham Court Road, England. Stud-fastening.	June 8, 1875	321	109	7	985
6, 628	Jeffords, Charles L., Jamestown, N. Y. Process of converting cast-iron into steel.	Nov. 23, 1875	863		8	170
168, 644	Jeffrey, Henry, Seymour, Ind. Vehicle-spring.	Aug. 17, 1875	581	179	8	298
167, 669	Jeffrey, John E., Brooklyn, N. Y. Manufacture of paper boxes.	Nov. 16, 1875	760	240	8	849
158, 498	Jeffries, John P., Wooster, Ohio. Composition tile for roofing and paving.	Feb. 2, 1875	84	28	7	195
171, 920	Jenckes, Charles M., New York, N. Y., assignor to Bloomfield Brower. Inkstand. (Design.)	Oct. 11, 1875			8	600
171, 921	Jenckes, Welcome, Manchester, N. H., assignor to George Draper & Son. Spinning-ring.	Sept. 7, 1875	196	61	8	433
168, 644	Jenckes, Welcome, Manchester, N. H. Spindle-holster.	Oct. 11, 1875	327	106	8	618
167, 669	Jenifer, Gustavus L. S., Cincinnati, Ohio. Compound for soap.	Sept. 14, 1875	268		8	451
158, 498	Jenison, Luman, et al. (See Gue, Albert F., assignor.)					
171, 920	Jenkins, Charles W., Richmond, Va. Steel brush for cleaning castings.	Jan. 5, 1875	132	44	7	27
171, 921	Jenkins, David. (See Gething, Jenkins & Gardner.)					
171, 920	Jenkins, George O., et al. (See Hyslop, John, jr., assignor.)					
171, 921	Jenkins, Harry M., New York, N. Y. Sail-maker's needle.	Dec. 28, 1875	963	311	8	1103
171, 921	Same. Sewing-machine needle.	Dec. 28, 1875	963	312	8	1103
171, 921	Jenkins, Henry S. (See Putnam, William E., assignor.)					
171, 921	Jenkins, Hiram H., et al. (See Hyslop, John, jr., assignor.)					
171, 921	Jenkins, H. S., et al. (See Fitzgerald, Walter, assignor.)					
171, 921	Jenkins, J. H., et al. (See Starkweather, John B., assignor.)					

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171, 384	Jenkins, John L., and Augustus W. Richards, Silver Run, Ala. Varnish	Dec. 21, 1875	711		8	1061
164, 304	Jenkins, Joseph C., assignor of one-half interest to James G. Jolley, Lebanon, Tenn. Cotton-seed planter	June 8, 1875	441	146	7	1001
166, 278	Jenkins, Joseph C., assignor to self and James G. Jolley, Lebanon, Tenn. Cultivator ..	Aug. 3, 1875	84	26	8	211
160, 328	Jenkins, Raymond. (See Hubbell, William L., assignor.) .....	.....	.....	.....	.....	.....
168, 398	Jenkins, William, Newark, N. J. Machine for tinning sheet-copper	Mar. 2, 1875	65	23	7	358
168, 398	Jenkins, William H., Philadelphia, Pa. Feed-water apparatus for steam-boilers	Oct. 5, 1875	70	25	8	575
165, 837	Jenks, Abraham S. (See Huie & Jenks.) .....	.....	.....	.....	.....	.....
6, 256	Jenks, Barton H., Philadelphia, Pa. Apparatus for hydrating gas	July 20, 1875	700	213	8	128
167, 903	Jenks, Henry F., Pawtucket, assignor, by mesne assignments, of one-half interest to Daniel H. Arnold, Lincoln, R. I. Sash-supporter	Jan. 26, 1875	881	286	7	167
160, 200	Jenks, Plympton E., Petrolia City, Pa. Sucker-rod socket	Sept. 21, 1875	494	156	8	492
165, 334	Jenne, Thomas J., Gouverneur, N. Y. Press	Feb. 23, 1875	918	302	7	331
161, 124	Jenner, Stephen R., Milltown, Ind. Turbine water-wheel	July 6, 1875	173	53	8	32
165, 236	Jenness, John S., Bangor, Me. Combined knife, cork-screw, and shield	Mar. 23, 1875	822	269	7	487
170, 476	Jenness, Orlando, Alton, N. H. Brush	July 6, 1875	87	26	8	21
164, 342	Jennings, Byron, San José, Cal. Pipe-joint	Nov. 30, 1875	1150	362	8	918
6, 616	Jennings, George, London, Great Britain. Apparatus for disinfecting water-closets ..	June 22, 1875	952	309	7	1086
6, 820	Jennings, Josiah G., Stangate, Engla d. Water-closet	Aug. 24, 1875	960	299	8	360
169, 444	Jennings, Ralph S., Philadelphia, Pa., assignor to self and Norman G. Kellogg. Envel- ope	Dec. 21, 1875	795	262	8	1071
171, 287	Jennings, Timothy, Moulton, Iowa. Wagon-box	Nov. 2, 1875	111	35	8	750
171, 288	Jensen, Jens, Racine, Wis. Manufacture of bound-plates for vehicles	Dec. 21, 1875	624	205	8	1049
160, 201	Same. Blank-bar for wagon-tongue caps	Dec. 21, 1875	629	206	8	1049
169, 907	Jenty, Charles, Paris, France. Compound for gas-fuel	Feb. 23, 1875	919	.....	7	331
159, 182	Jepson, Joseph, Philadelphia, Pa. Rolling-mill	Nov. 16, 1875	597	186	8	827
161, 125	Jeralds, Silas E., et al. (See Peck, Franklin, assignor.) .....	.....	.....	.....	.....	.....
8, 569	Jeremiah, George A., New York, N. Y. Street-sprinkler	Jan. 26, 1875	812	266	7	158
161, 125	Jermain, Louis, Green Island, assignor to George A. Mosher, Troy, N. Y. Blind-stop ..	Mar. 23, 1875	823	269	7	487
8, 569	Jerome, Luther E., assignor to New Haven Clock Company, New Haven, Conn. Clock- case door	Aug. 17, 1875	.....	.....	8	281
167, 339	Jerome, William R. (See Barry, Job R., assignor.) .....	.....	.....	.....	.....	.....
8, 658	Jerrold, John E., assignor to self, Orrin Luke, William Newberry, and James F. Cald- well, Meadville, Pa. Device for securing boiler-tubes	Aug. 31, 1875	1131	355	8	391
164, 002	Jewell, Aaron, assignor to Washington Mills, Lawrence, Mass. Fancy worsted or woolen fabric	Sept. 21, 1875	.....	.....	8	475
158, 417	Jewell, Charles A., Hartford, Conn. Machine-belt	June 1, 1875	136	48	7	949
158, 845	Jewell, Tryon J. M., assignor to Theo. W. Burger and Edwin Gardinier, New York, N. Y. Cotton- press	Jan. 5, 1875	57	20	7	17
162, 478	Jewell, Tryon J. M., New York, N. Y., assignor to Theo. W. Burger, Plainfield, N. J., and Edw. Gardinier, Brooklyn, N. Y. Cotton-press	Jan. 19, 1875	474	159	7	106
166, 990	Jewett, Augustine, Lynn, Mass. Collet for balance-springs of watches	Apr. 27, 1875	851	213	7	707
170, 477	Jewett, Edgar B., Buffalo, N. Y. Cover for water-coolers	Aug. 24, 1875	799	248	8	337
170, 739	Same. Refrigerator	Nov. 30, 1875	1151	363	8	918
161, 794	Jewett, Hartley W., et al. (See Buffum, Albion K. P., assignor.)	Dec. 7, 1875	77	24	8	961
161, 794	Jewett, Joseph F. (See Grinter, Thomas W., assignor.) .....	.....	.....	.....	.....	.....
162, 825	Jewett, Thomas B., Lawrence, Kans. Churn	Apr. 6, 1875	174	60	7	594
162, 560	Jewsbury, Thomas N. (See Bronson & Jewsbury.) .....	.....	.....	.....	.....	.....
168, 335	Jilz, William W., Saint Louis, Mo. Earth-auger	May 4, 1875	81	27	7	757
170, 270	Jincks, Melvin, Wallace, assignor of one-half interest to Francis M. Conley, Cohocton, N. Y. Churn	Apr. 27, 1875	921	295	7	716
164, 376	Jincks, Melvin, Wallace, N. Y. Fish-spear	Oct. 5, 1875	16	6	8	567
167, 540	Jingras, Thimothé, Fall River, Mass. Fire-escape	Nov. 23, 1875	948	296 297	8	882
160, 100	Job, Thomas, Ryon Township, Schuylkill County, Pa. Machine for destroying potato- bugs	June 15, 1875	223	172	7	1021
160, 101	Jocelyn, Josiah M. (See Larabee & Jocelyn.) .....	.....	.....	.....	.....	.....
163, 660	Joecken, Peter J. (See Bohm, Stühr & Joecken.) .....	.....	.....	.....	.....	.....
167, 540	Joergens, Clemens, Chicago, Ill. Billiard-table	Sept. 7, 1875	142	43	8	426
160, 100	Joerns, Herman. (See Thomas, Charles F., assignor.) .....	.....	.....	.....	.....	.....
160, 101	Johns, Thomas (See Rees & Johns.) .....	.....	.....	.....	.....	.....
163, 660	Johnsen, Nelson E., Chelsea Naval Hospital, Mass. Gun-carriage	Feb. 23, 1875	835	274	7	319
167, 670	Same. Breech-loading ordnance	Feb. 23, 1875	836	275	7	319
6, 550	Johnsen, Nelson E., and Samuel Adams, Chelsea, Mass. Mousing-hook	May 25, 1875	902	286	7	896
166, 530	Johnsen, Theodore. (See Hooper & Johnsen.) .....	.....	.....	.....	.....	.....
164, 563	Johnson, Albert F., Parkville, N. Y. Fare-register	Sept. 14, 1875	268	84	8	451
161, 044	Johnson, Albert F., assignor, by mesne assignments, to Samuel T. Thomas, Boston, Mass. Sewing-machine	July 20, 1875	767	235 236	8	139
170, 568	Johnson, Albert L., New Orleans, La. Street-railway switch	Aug. 10, 1875	338	103	8	255
6, 734	Johnson, Albert W., and Horace A. Nettleton; said Nettleton assignor to said Johnson, said Johnson assignor of one-half interest to John Matthewman, New Haven, Conn. Pump and check valve	June 15, 1875	687	223	7	1042
169, 813	Johnson, Andrew, Youngstown, Ohio. Combined shovel and ash-pan lifter	Mar. 23, 1875	742	244	7	477
163, 781	Johnson, Charles, assignor of one-half interest to William Scholz, Lansing, Iowa. Car- coupling	Nov. 30, 1875	1233	388	8	930
168, 026	Johnson, Charles C., Somerville, Mass., assignor to Horace Partridge. Toy money-box. (Reissue)	Nov. 9, 1875	572	178	8	816
159, 762	Johnson, Charles F., jr., Owego, N. Y. Grain-distributor for seed-drills	Nov. 9, 1875	496	156	8	87
159, 330	Johnson, Charles H., Southington, Conn. Thill-coupling for sleighs	May 25, 1875	1002	318	7	909
158, 418	Johnson, Chester L. (See Foster, Joseph S., assignor.) .....	.....	.....	.....	.....	.....
164, 003	Johnson, Chester L., Whitesborough, assignor of one-half interest to Benjamin T. Bab- bitt, New York, N. Y. Machine for rolling metal tubes	Sept. 21, 1875	596	190	8	507
165, 588	Johnson, Daniel A., Boston, Mass. Device for attaching hubs to axles	Feb. 16, 1875	507	170	7	268
158, 798	Johnson, David. (See Johnson, Samuel and David.) .....	.....	.....	.....	.....	.....
160, 826	Johnson, De Witt C., Redding, Cal. Chain-propeller	Feb. 2, 1875	85	28	7	195
167, 541	Johnson, Edwin W., assignor to self and Joseph U. Knodle, Foreston, Ill. Middlings- purifier	Jan. 5, 1875	58	20	7	17
163, 015	Johnson, Elias, Wauseon, Ohio. Sash-balance	June 1, 1875	137	43	7	949
163, 015	Johnson, Elmore, and Jackson Barnes, Burlington, Vt. Map	July 13, 1875	446	135	8	78
163, 015	Johnson, Frank G., Chicago, Ill. Station-indicator	Jan. 19, 1875	432	144	7	100
163, 015	Same. Music-leaf turner	Mar. 16, 1875	548	178	7	441
163, 015	Same. same	Sept. 7, 1875	143	44	8	426
163, 015	Johnson, Frank G., New York, N. Y. Health-lift apparatus	Oct. 19, 1875	654	216	8	673
163, 015	Johnson, Frank M., Bristol, Conn. Door-bell	May 11, 1875	277	89	7	791
163, 015	Johnson, Frank S. (See Hastings, Glover S., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Johnson, Frank S., <i>et al.</i> (See Hastings, Glover S., assignor.)					
	Johnson, G. B. (See Schonmeyer, Friedrich E., assignor.)					
	Same..... (See Wells, William, assignor.)					
171, 023	Johnson, George, Haverstraw, N. Y. Manufacture of hexagonal nuts	Dec. 14, 1875	347	116	8	1004
164, 564	Johnson, George F., and Daniel Wilde, Washington, Iowa. Portable boiler.....	June 15, 1875	688	223	7	1042
	Johnson, George H. (See Boudren & Johnson)					
167, 255	Johnson, Heber G., Greencastle, Ind. Check-valve	Aug. 31, 1875	1060	330	8	381
162, 289	Johnson, Henry, Washington, D. C. Conductor's punch	Apr. 20, 1875	645	211	7	674
161, 339	Johnson, Henry, assignor, by mesne assignments, to Margaret Johnson, Rochester, N. Y. Lamp-chimney attachment.....	Mar. 30, 1875	1039	338	7	523
162, 661	Johnson, Henry M., assignor to Earl A. Thissell, Cyrus C. Pickering, and Edwin Lamson, Lowell, Mass. Die for crimping the halves of split spindles	Apr. 27, 1875	1008	323	7	727
170, 377	Johnson, Isaac, Chicago, Ill. Lightning-rod.....	Nov. 23, 1875	1041	327	8	895
	Johnson, James. (See Casey, Auel & Johnson.)					
167, 671	Johnson, James, Harrowgate, England, assignor to Joseph Wood, Red Bank, N. J., and Edwin R. Bennet, New York, N. Y. Railway-frog point	Sept. 14, 1875	270	84	8	451
169, 269	Johnson, James C., Boston, Mass. Rotary steam-engine.....	Oct. 26, 1875	922	299	8	717
8, 011	Johnson, James H., assignor to Johnson Manufacturing Company, Newark, N. J. Ink-stand-base..... (Design.)	Jan. 19, 1875			7	93
158, 589	Johnson, John W., Columbus, Tex. Portable fence.....	Jan. 12, 1875	228	76	7	56
165, 000	Johnson, Joe S., Somerville, Tenn. Flower-pot.....	June 29, 1875	1113	359	7	1114
160, 914	Johnson, John, Brooklyn, N. Y. Steam-valve	Mar. 16, 1875	617	202	7	451
166, 701	Johnson, John, Hartford, Conn. Spring-bed	Aug. 17, 1875	507	155	8	287
170, 954	Johnson, John, Boston, Mass. Fountain-pen	Dec. 14, 1875	784	95	8	996
169, 707	Johnson, John, assignor to self, William T. Smith, and Thomas H. Ward, Perry, Ill. Revolving dropper	Nov. 9, 1875	389	122	8	793
159, 267	Johnson, John A., Saint Paul, Minn. Plow	Feb. 2, 1875	24	8	7	188
168, 399	Johnson, John H., Brooklyn, Mich. Car-coupling	Oct. 5, 1875	72	25	8	575
	Johnson, John M., <i>et al.</i> (See Carroll, Thomas J., assignor.)					
160, 436	Johnson, John M., Stileswell, Ind. Fire-shield	Mar. 2, 1875	160	56	7	371
165, 931	Johnson, John W., assignor of two-thirds interest to C. M. Manville and E. E. Buffington, Towanda, Pa. Grain-separator	July 27, 1875	802	246	8	155
166, 385	Johnson, Josee, New York, N. Y. Fruit-drier	Aug. 3, 1875	187	56	8	225
166, 108	Johnson, Josee, New York, N. Y., assignor to Metropolitan Washing Machine Company, Middlefield, Conn. Mangle.....	July 27, 1875	969	298	8	178
167, 904	Johnson, Joseph B., Lynn, Mass. Roller for buffing soles	Sept. 21, 1875	494	156	8	492
167, 905	Same..... same.....	Sept. 21, 1875	495	157	8	492
	Johnson, Joseph H. (See Campbell & Johnson.)					
162, 235	Johnson, Lafayette M., Forest City, Mo. Burglar-alarm	Apr. 20, 1875	599	196	7	668
163, 378	Same..... Sling for shoeing animals.....	May 18, 1875	630	202	7	853
	Johnson, Llewellyn H. (See Maglaughlin, Alfonso A., assignor.)					
	Johnson Manufacturing Company. (See Johnson, James H., assignor) (Design.)					
	Johnson, Margaret. (See Johnson, Henry, assignor.)					
169, 643	Johnson, Mary A., Washington, D. C. Clothes-wringer	Nov. 9, 1875	324	102	8	785
6, 419	Johnson, Moses, Three Rivers, Mich., assignor to Union Manufacturing Company. Hoe	May 4, 1875	252	81	7	780
159, 331	Johnson, Moses, Three Rivers, Mich. Cultivator.....	Feb. 2, 1875	86	29	7	195
159, 332	Johnson, Moses, Three Rivers, Mich., assignor to Union Manufacturing Company. Hoe	Feb. 2, 1875	87	30	7	196
165, 735	Johnson, Moses F., Newark, N. J. Sizing-plank for battens.....	July 20, 1875	594	182	8	115
	Johnson, Nicholas H. (See Johnson, Peter and Nicholas.)					
	Johnson, Oscar A. (See Fogelberg, Carl, assignor.)					
166, 010	Johnson, Peter, Wauconda, and Nicholas H. Johnson, Blackberry, Ill. Miter-box.....	July 27, 1875	875	269	8	165
	Johnson, R. H., <i>et al.</i> (See Dennison, John N., assignor.)					
167, 542	Johnson, Roise W., Fort Dodge, Iowa. Engraving-machine.....	Sept. 7, 1875	143	44	8	426
	Johnson, Ruel M. (See Williams, Aaron B. G. A., assignor.)					
	Johnson, R. W., <i>et al.</i> (See Bell, Jasper N., assignor.)					
167, 839	Johnson, Samuel, Philadelphia, Pa. Steam road-rammer.....	Sept. 21, 1875	437	139	8	483
160, 773	Johnson, Samuel and David, Carlisle, assignor of one-third interest to George W. Hawthorth, Hartford, Iowa. Wind-wheel.....	Mar. 16, 1875	501	163	7	435
160, 682	Johnson, Samuel H., Stratford, England. Apparatus for crushing stone	Mar. 9, 1875	389	132	7	414
166, 279	Same..... Method of and apparatus for separating free sulphur.....	Aug. 3, 1875	84	26, 27	8	211
165, 932	Johnson, Theodore A., Portland, Me. Foot-rest for chairs.....	July 27, 1875	804	246	8	155
161, 043	Johnson, Wallace, Buffalo, N. Y. Butter-worker.....	Mar. 23, 1875	741	244	7	477
165, 001	Johnson, William, Ozaukee, Wis. Bung and bush	June 29, 1875	1114	359	7	1114
166, 465	Johnson, William C., Newburyport, Mass. Scale for type-writers	Aug. 10, 1875	286	85	8	247
171, 139	Same..... Frisket for type-writing machines	Dec. 14, 1875	462	151	8	1019
163, 206	Johnson, William E., Chicago, Ill. Mica lamp-chimney	May 11, 1875	454	147	7	814
169, 445	Johnson, William E., and John C. Bowman, Pickets Station, Miss. Transplanter	Nov. 2, 1875	112	36	8	750
170, 673	Johnson, William H., Farmer City, Ill. Check-row planter.....	Dec. 7, 1875	18	5	8	953
165, 102	Johnson, Wilham H., assignor of one-half interest to Herbert A. Pitcher and Frederick A. Ray, Delhi, N. Y. Milk-cooler	June 29, 1875	1204	387	7	1126
158, 590	Johnson, Wilham J., Boston, Mass. Drying apparatus.....	Jan. 12, 1875	228	77	7	56
6, 649	Johnson, William J., Newton, Mass. Pump	Sept. 21, 1875	660	209	8	515
167, 769	Same..... Soap-holder.....	Sept. 14, 1875	362	115	8	464
166, 384	Johnson, William O., Alma, Mich. Stump-puller.....	Aug. 3, 1875	186	56	8	225
169, 814	Same..... Tire-tightener.....	Nov. 9, 1875	497	156	8	807
160, 102	Johnson, Willis H., Springfield, Ill. Pruning-shears.....	Feb. 23, 1875	836	275	7	319
163, 103	Same..... Pruning implement	Feb. 23, 1875	837	275	7	319
159, 580	Johnston, Alexander M., and Samuel Gissingor, Pittsburgh, Pa. Safety-valve for steam-boilers.....	Feb. 9, 1875	327	108	7	237
170, 375	Johnston, Allen, Ottumwa, Iowa. Tuck-marking attachment for sewing-machines	Nov. 23, 1875	1038	326	8	895
	Johnston & Sutphen. (See Sutphen, Carlyle E., assignor.)					
	Johnston, Andrew, <i>et al.</i> (See Reed, John C., assignor.)					
164, 178	Johnston, Arthur, Lockport, N. Y. Thrashing-machine	June 8, 1875	321	{ 109 } { 110 }	7	985
	Johnston Brothers. (See Johnston, William A., assignor.)					
	Johnston Harvester Company. (See Cooley, Orville, assignor.)					
	Johnston, James, <i>et al.</i> (See Hardman, John H., assignor.)					
	Johnston, James B. (See Hale & Johnston.)					
167, 175	Johnston, James B., New York, N. Y. Thill-coupling	Aug. 31, 1875	994	309	8	372
163, 316	Johnston, James B., assignor to Robert W. Hale, Chicago, Ill. Horseshoe-calk-blank bar	May 12, 1875	575	184	7	846
169, 644	Johnston, James L. A., and Charles B. Hopkins, assignors of one-half interest to A. G. Hauback, Topeka, Kans. Blind-slat adjuster.....	Nov. 9, 1875	325	103	8	785

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167, 256	Johnston, John B., <i>et al.</i> (See Starkweather, John B., assignor.)	Aug. 13, 1875	1061	330	8	381
	Johnston, John S., Rockford, Ill. Colter attachment					
	Johnston, Riley. (See Van Duzer & Johnston.)					
160, 598	Johnston, William. (See Barton, Robert, assignor.)					
169, 003	Johnston, William, Shelby, N. Y. Door-hanger	Mar. 9, 1875	319	108	7	403
170, 376	Johnston, William A., assignor to Johnston Brothers, New York, N. Y. Hand-piece for dental engines	Oct. 19, 1875	655	216	8	673
161, 516	Johnston, William W., Summitville, Ohio. Grain-separator	Nov. 23, 1875	1040	326	8	895
171, 515	Johnstone, William, assignor of one-half interest to William W. Robertson, Montreal, Canada. Bench-plane	Mar. 30, 1875	1213	390	7	545
	Joint, William, and George B. Dunham, Lynn, Mass. Heel-polishing machine	Dec. 28, 1875	853	279	8	1087
165, 002	Jolley, James G. (See Jenkins, Joseph C., assignor.)					
163, 379	Jonasson, Carl J., Warren, Pa. Smoking-pipe	June 29, 1875	1114	359	7	1114
160, 437	Jones, Albert L., Brooklyn, N. Y. Blank for corrugated paper boxes	May 18, 1875	631	202	7	853
	Jones, Andrew J. (See Hoover, Samuel S., assignor.)					
169, 997	Jones, Andrew J., assignor of one-half interest to Henry H. Tinker, Cincinnati, Ohio.	Mar. 2, 1875	161	56	7	371
167, 340	Index	Nov. 16, 1875	671	210	8	837
	Jones, Ansel D. and Samuel L., Kirksville, Ky. Extension-table					
	Jones, Anthony A., assignor to self and Julius F. Chesebrough, Utica, N. Y. Car-starter	Aug. 31, 1875	1131	356	8	391
160, 329	Jones, Benjamin C., <i>et al.</i> (See Shine, Patrick H., assignor.)					
162, 388	Jones, Benjamin F. (See Atkinson, James S., assignor.)					
	Jones, Chapman R., Berlin, Ill. Apron for stock-cars	Mar. 2, 1875	66	23	7	358
	Jones, Charles L., Wakefield, Mass. Compound hose-pipe nozzle	Apr. 20, 1875	743	242	7	685
165, 167	Jones, Charles W. (See Jones, Edgar A. and Charles W.)					
	Jones, David D. (See Shoemaker & Jones.)					
	Jones, David D., assignor of one-half interest to Thomas B. Evans, Pittsburgh, Pa. Nut-lock	July 6, 1875	19	6	8	11
162, 561	Jones, Deloss. (See Landphere, Perry F., assignor.)					
158, 499	Jones, Dillwyn P., <i>et al.</i> (See West, Augustine C., assignor.)					
	Jones, Diodorus S., assignor to William H. Douty, Shamokin, Pa. Rotary engine	Apr. 27, 1875	922	296	7	716
	Jones, Edgar A., Sturgis, and Charles W. Jones, Centreville, Mich. Fruit-drier	Jan. 5, 1875	133	44	7	27
171, 024	Jones, Edward A., <i>et al.</i> (See Miller & Reeves, assignors.)					
	Jones, Edwin H., administrator. (See Jones, Richard.)					
	Jones, Ephraim A. and John A., Middlesborough, England. Manufacture of iron and steel	Dec. 14, 1875	348		8	1004
166, 109	Jones, Evan A., Wolcott, Ind. Washing-machine	July 27, 1875	970	299	8	178
167, 103	Jones, Evan J., Indianapolis, Ind. Device for supplying steam-blast to furnaces	Aug. 24, 1875	903	282	8	352
165, 237	Jones, Florentine A. (See Dawson, John A., assignor.)					
166, 206	Same. (See Pacand, Eugene J., assignor.)					
	Jones, George H., Rose, N. Y. Casting turbine wheels	July 6, 1875	87	26	8	21
	Same. Turbine water-wheel	Aug. 3, 1875	21	7, 8	8	202
163, 496	Jones, George M. (See Butz & Jones.)					
	Jones, George R. G. (See Seehausen, Herman, assignor.)					
	Jones, George R. G., assignor of one-half interest to Joseph W. Allison, Memphis, Tenn. Coupon tag and check	May 18, 1875	741	235	7	867
164, 004	Jones, George S., and Benjamin F. Kidd, Russellville, Ky. Washing-machine	June 1, 1875	138	49	7	950
169, 004	Jones, Gilbert D., Brooklyn, assignor of one-half interest to Albert de la Montagnie, New York, and David Elston, Brooklyn, N. Y. Cube-sugar machine	Oct. 19, 1875	656	216	8	673
160, 827	Jones, Hamilton C., Brooklyn, N. Y. Cording attachment for sewing-machines	Mar. 16, 1875	549	178	7	441
162, 562	Same. Binding attachment for sewing-machines	Apr. 27, 1875	923	296	7	716
169, 550	Jones, Harrison H., Newark, N. J. Snapper-loop for whips	Nov. 2, 1875	211	69	8	763
163, 497	Jones, Harvey P., Keokuk, Iowa, assignor of one-half interest to Wolf H. Anderson, Rock Island, Ill. Oscillating steam-valve	May 18, 1875	741	{ 235 } { 236 }	7	867
166, 614	Jones, Henry, <i>et al.</i> (See Reed, William H., assignor.)					
	Jones, Henry B., Burton, assignor of one-half interest to Yard & Sullivan, Galveston, Tex. Bale-tie	Aug. 10, 1875	410	126	8	265
159, 268	Jones, Henry B., Burton, Tex. Cotton-bale tie	Feb. 2, 1875	25	8	7	188
161, 416	Same. Bale-tie	Mar. 30, 1875	1115	360	7	532
165, 416	Jones, Horace C., Dowagiac, Mich. Stave-basket	July 13, 1875	286	84	8	54
165, 417	Same. Grain-basket	July 13, 1875	286	85	8	55
165, 418	Same. Stave-basket	July 13, 1875	287	85	8	55
165, 419	Same. same	July 13, 1875	288	85	8	55
169, 446	Same. same	Nov. 2, 1875	113	36	8	750
169, 447	Same. same	Nov. 2, 1875	113	36	8	750
169, 448	Same. same	Nov. 2, 1875	114	36	8	750
160, 438	Jones, James C., New York, N. Y. Removable refrigerator for pails, &c	Mar. 2, 1875	162	56	7	312
166, 110	Same. same	July 27, 1875	971	299	8	178
159, 930	Jones, Jesse A., Raleigh, N. C. Spring bed-bottom	Feb. 16, 1875	663	219	7	288
159, 417	Jones, John A. (See Jones, Ephraim A. and John A.)					
158, 640	Jones, John D., Omaha, Nebr. Blind-stop	Feb. 2, 1875	158	53	7	206
158, 641	Jones, John F., Marcellus Falls, N. Y. Apparatus for drying paper-cylinders	Jan. 12, 1875	271	91	7	62
159, 269	Same. Manufacture of paper-pulp	Jan. 12, 1875	272		7	62
159, 270	Same. Paper box	Feb. 2, 1875	26	9	7	188
162, 236	Same. same	Feb. 2, 1875	26	9	7	188
6, 517	Same. Paper-tube machine	Apr. 20, 1875	600	{ 196 } { 197 }	7	668
164, 179	Jones, John L., Oxford, N. C. Plug-tobacco machine (Reissue)	June 29, 1875	1247	401	8	1133
169, 106	Jones, John S. (See Ferguson & Jones.)					
163, 078	Jones, John T., Ilion, N. Y. Sewing-machine take-up	June 8, 1875	323	110	7	985
162, 389	Same. Button-hole attachment for sewing-machines	Oct. 26, 1875	778	253	8	697
169, 551	Jones, Joseph M., Paris, Ky. Shifting body for hand-carts	May 11, 1875	337	109	7	798
158, 799	Jones, Justus, Burtonville, N. Y. Hay-elevator	Apr. 20, 1875	744	242	7	685
8, 339	Jones, Louis, jr., New York, N. Y. Sink	Nov. 2, 1875	211	70	8	763
8, 340	Jones, Marquis R., Darien, Wis. Safety-box for revolving shafting	Jan. 19, 1875	433	145	7	100
8, 341	Jones, Melville D., Boston, Mass. Base panel for vases (Design)	May 25, 1875			7	879
171, 226	Same. Border for vases (Design)	May 25, 1875			7	879
163, 317	Same. Panel for vase-pedestals (Design)	May 25, 1875			7	879
	Same. Bracket for supporting shelves	Dec. 21, 1875	571	188	8	1041
	Jones, Michael, Des Moines, Iowa. Washing-machine	May 18, 1875	575	184	7	846
171, 140	Jones, Perine Y. (See Freeman & Jones.)					
165, 736	Jones, Richard, deceased, by Edwin H. Jones and Henry D. Straw, administrators. Coal-breaking roll	Dec. 14, 1875	462	151	8	1019
	Jones, Samuel G., assignor to self and James M. Jacobs, Moweaqua, Ill. Harrow	July 20, 1875	595	182	8	115
	Jones, Samuel L. (See Jones, Ansel D. and Samuel L.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 418	Jones, Thomas, <i>et al.</i> (See Haddock, Worcester, assignor.)					
166, 386	Jones, Thomas, New York, N. Y. Method of ornamenting glass.	Feb. 2, 1875	159	54	7	206
169, 005	Jones, W. Davidson, Haganan's Mills, N. Y. Air-brake.	Aug. 3, 1875	188	56	8	225
160, 330	Jones, William H., Rochester, N. Y. Pavement.	Oct. 19, 1875	658	217	8	673
168, 748	Jones, William J., Hamilton, Ohio. Feed-cutting machine.	Mar. 2, 1875	66	24	7	358
	Jones, William P., Clio, Iowa. Churn.	Oct. 11, 1875	416	135	8	631
166, 531	Jonniaux & Co., Ed. (See Touillon, Jules, assignor.)					
168, 258	Jonté, Pierre F., Cincinnati, Ohio. Gas-burner.	Aug. 10, 1875	338	103	8	255
	Jopson, George W., Waterbury, Conn. Key-ring.	Sept. 28, 1875	839	268	8	545
	Jordan, Alson G. (See Allred, John J., assignor.)					
	Jordan, Frank H. (See Linscott, John M., assignor.)					
8, 245	Jordan, James C., <i>et al.</i> (See Andrews & Tucker, assignors). (Reissue.)					
	Jordan, Peter A., assignor to MacKellar, Smiths & Jordan, Philadelphia, Pa. Font of printing-types.	Mar. 30, 1875			7	516
8, 420	Same. same. (Design).	June 22, 1875			7	1057
168, 159	Jordan, Samuel S., and John C. Stevens, Bath, Me. Truss for ship's yards.	Sept. 28, 1875	754	238	8	536
160, 331	Jordan, William A., assignor to Planters' Cotton Tie Association, New Orleans, La. Bale-tie.	Mar. 2, 1875	67	24	7	358
163, 380	Jordan, William A., New Orleans, La., assignor of one-half interest to George S. Roundbush, Crystal Springs, Miss. Bale-tie.	May 18, 1875	632	203	7	853
160, 104	Joseph, George W. (See Hood & Joseph.)					
	Joseph, Israel and J. Albert, New York, N. Y. Shoe-brush.	Feb. 23, 1875	838	276	7	319
160, 526	Joseph, J. Albert. (See Joseph, Israel and J. Albert.)					
170, 860	Joslin, Jacob D., Cleveland, Ohio. Hydraulic hose.	Mar. 9, 1875	256	87	7	394
170, 089	Joslyn, Benjamin F., Worcester, Mass. Wrench.	Dec. 7, 1875	181	62	8	975
	Joslyn, Benjamin F., Worcester, Mass., assignor to Richard P. Bruff, New York, N. Y. Wrench.	Nov. 16, 1875	761	240	8	849
171, 516	Joslyn, John E. (See Shaw, Irvin A., assignor.)					
162, 390	Jouet, Joseph, New Orleans, La. Rice-hulling machine.	Dec. 28, 1875	854	279	8	1057
6, 480	Joyce, Alexander S., Yonkers, N. Y. Hat-brushing machine.	Apr. 20, 1875	744	242	7	686
161, 238	Joyce, Joseph L., assignor to Joyce Protection Toe Association, New Haven, Conn. Manufacture of boots and shoes. (Reissue.)	June 8, 1875	497	164	7	1008
165, 003	Joyce, Maurice, Washington, D. C. Seamless mold for electrotypes. (Reissue.)	Mar. 23, 1875	925		9	500
159, 931	Joyce, Stephen, New York, N. Y. Air-tight can. (Reissue.)	June 29, 1875	1115	360	7	1114
162, 563	Joyce, Thomas T., New York, N. Y., assignor to Catharine Thomas, Saint Louis, Mo. Brick-machine.	Feb. 16, 1875	664	220	7	288
165, 737	Judd, Albert D., New Haven, Conn. Shutter-fastener.	Apr. 27, 1875	924	296	7	716
168, 094	Same. Picture-frame.	July 20, 1875	595	183	8	115
162, 564	Judd, Charles D., East Haven, Conn. Combination-lock.	Sept. 28, 1875	689	218	8	527
171, 385	Judd, Edward M., Brooklyn, N. Y. Curtain-fixture.	Apr. 27, 1875	924	297	7	717
170, 740	Same. same. same.	Dec. 21, 1875	712	235	8	1061
	Judd, Hubert L., Brooklyn, N. Y. Bracket for curtain-rollers.	Dec. 7, 1875	78	25	8	961
166, 615	Judd, Lewis S., <i>et al.</i> (See Hamblin, Silvanus, and Stephen M., assignors.)					
163, 079	Judd, Lorin F., assignor to North and Judd Manufacturing Company, New Britain, Conn. Bridle-bit.	Aug. 10, 1875	411	126	8	265
166, 111	Judd, Morton, Wallingford, Conn. Sash-fastener.	May 11, 1875	337	110	7	798
159, 581	Judge, Edward S., Philadelphia, Pa. Manufacture of doll-heads, &c.	July 27, 1875	971		8	179
162, 826	Judkins, Mark D., Glenwood, Minn. Grain-separator.	Feb. 9, 1875	328	108	7	238
164, 920	Judson, Agur, Newark, N. J. Meal-molder in the manufacture of linseed-oil.	May 4, 1875	82	27	7	758
164, 180	Judson, Agur, assignor of one-half interest to D. Howard Judson, Newark, N. J. Rotary paper-cutter.	June 29, 1875	1045	337	7	1105
	Judson, Andrew J., Hillville, assignor of one-fourth interest to Jacob Truly, Catfish, Pa. Blacksmith's forging-hammer.	June 8, 1875	324	110	7	986
160, 774	Judson, Chester. (See Amrock & Judson.)					
169, 815	Judson, D. Howard. (See Judson, Agur, assignor.)					
171, 572	Judson, Junius, and William A. Cogswell, Rochester, N. Y.; said Cogswell assignor to said Judson. Steam engine governor.	Mar. 16, 1875	502	163	7	435
	Judson, Junius, and William A. Cogswell, Rochester, N. Y. Steam-governor.	Nov. 9, 1875	498	157	8	807
163, 080	Juengst, George, New York, N. Y. Mechanical movement. (Reissue.)	Dec. 28, 1875	903	295	8	1095
163, 782	Juergens, August. (See Branson & Juergens.)					
	Jullien, Alexandre, Paris, France. Converting old iron into steel.	May 11, 1875	338		7	799
	Same. Manufacture of ferro-manganese.	May 25, 1875	1003	318	7	909
	June, David. (See Brayton, June & French.)					
161, 239	Junkerman, Otto. (See Hoag & Junkerman.)					
163, 381	Jurgensen, Christopher P. (See Hansen & Jurgensen.)					
168, 902	Jurgensen, Jules F. U., Locle, Switzerland. Stem-setting watch.	Mar. 23, 1875	926	302	7	501
169, 006	Jury, F. Herman, New York, N. Y. Child's carriage.	May 18, 1875	632	203	7	853
161, 340	Jury, Fredrich H., New York, N. Y. Vehicle-top.	Oct. 19, 1875	563	184	8	660
	Justh, Emanuel S., Washington, D. C. Boot and shoe.	Oct. 19, 1875	660	217	8	673
8, 246	Kacerovsky, Joseph, Bridgeport, Conn., assignor to C. M. Alexander and J. M. Mason, } Washington, D. C. Machine for tapping pipe-fittings. {	Mar. 30, 1875	1040	{ 338 } { 339 }	7	523
8, 247	Kagy, Henry, assignor to Thomas Potter, Sons & Co., Philadelphia, Pa. Oil-cloth. (Case A. Design.)	Mar. 30, 1875			7	516
160, 202	Same. same. (Case B. Design.)	Mar. 30, 1875			7	516
165, 238	Kahler, Conrad, assignor of one-half interest to Melville C. Eames and William L. Ogden, Chicago, Ill. Brake-machinery.	Feb. 23, 1875	920	303	7	331
165, 838	Kahler, Conrad, assignor to self, Melville C. Eames, William L. Ogden, Wilhelm Severin, and Philipp Emrath, Chicago, Ill. Paper-dampening machine.	July 6, 1875	89	26	8	21
165, 589	Same. Rotary printing-press.	July 20, 1875	701	213	8	128
166, 781	Kahn, Israel, Saint Joseph, Mo. Eyeglass.	July 13, 1875	446	135	8	78
166, 466	Kahn, Louis, New York, N. Y. Stem winding and setting device for watches.	Aug. 17, 1875	581	179	8	298
	Kaiser, Jacob, York Township, Canada. Mill.	Aug. 10, 1875	287	86	8	247
165, 590	Kaiser, Peter. (See Beach, Henry, assignor.)					
164, 921	Kalbflesch, Franklin H., Brooklyn, N. Y. Carriers for acids.	July 13, 1875	447	135	8	79
160, 683	Kalmbach, Charles L., Richmond, Va. Electric fuse.	June 29, 1875	1046	337	7	1105
6, 702	Kampfe, Frederic, New York, N. Y. Lamp.	Mar. 9, 1875	390	132	7	414
167, 176	Kane, Charles L., Milford, Conn. Shuttle-motion for looms. (Reissue.)	Oct. 19, 1875	727	240	8	683
168, 259	Same. same. same. (Case A. Design.)	Aug. 31, 1875	995	309	8	372
	Kanouse, Abraham M., Sun Prairie, Wis. Seed-planter.	Sept. 28, 1875	840	268	8	548
159, 183	Kappmeyer, Edward, Hamburg, Germany. Sewing-machine.	Jan. 26, 1875	813	{ 266 } { 267 }	7	158
165, 103	Karn, Eugene W. (See Karn, Jacob W. and Eugene W.)					
	Karn, Jacob W. and Eugene W., Seneca Falls, N. Y. Device for bending sleigh-runner frames.	June 29, 1875	1205	387	7	1127

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
	Karns, James E., <i>et al.</i> (See Douthett, William C., assignor.)					
	Karntz, T. (See Latus, William, assignor.)					
168, 502	Kaselowsky, Emil, Berlin, Prussia. Steam-boiler furnace.....	Oct. 5, 1875	163	53	8	588
	Kast, Jos., <i>et al.</i> (See Clark, George, assignor.)					
164, 458	Kastner, Georges E. F., Paris, France. Pyrophone.....	June 15, 1875	600	194	7	1030
	Kates, John L. (See Caldwell, Joseph K., assignor.)					
158, 715	Kates, Joseph W., Richmond, Va. Telegraphic signal apparatus..	Jan. 12, 1875	337	115	7	71
165, 591	Same..... Non-interfering fire-alarm telegraph.....	July 13, 1875	448	136	8	79
168, 160	Katon, Walter N., Attleborough, Mass. Thill-coupling.....	Sept. 28, 1875	755	238	8	536
166, 387	Katté, Walter, Saint Louis, Mo. Splice-plate for metallic truss-bridges.....	Aug. 3, 1875	190	57	8	225
168, 503	Kauffman, Abraham, Annville, Pa. Invalid-bedstead.....	Oct. 5, 1875	164	53, 54	8	588
160, 599	Kauffman, Jacob M. Gosben, Ind. Wind-wheel.....	Mar. 9, 1875	320	108	7	403
159, 682	Kauffman, Joseph, Philadelphia, Pa. Hinge.....	Feb. 9, 1875	418	139	7	250
166, 388	Kauper, Johan, assignor to Wagner, Kauper & Deremo, Cincinnati, Ohio. Carpet-sweeper.	Aug. 3, 1875	190	57	8	225
167, 257	Kavanagh, Patrick, Canarsie, N. Y. Sheave.....	Aug. 31, 1875	1062	330	8	382
	Kawan, Anton. (See Rosborg & Kawan.)					
164, 459	Kaylor, Edward, Pittsburgh, Pa. Machine for upsetting metallic bars and rods.....	June 15, 1875	602	195	7	1031
	Keach, William, <i>et al.</i> (See Robbins, Joseph A., assignor.)					
161, 517	Keam, Thomas V., Santa Fé, N. Mex. Lamp and gas-burner attachment.....	Mar. 30, 1875	1213	390	7	545
163, 871	Kean, John, Chicago, Ill. Pessary.....	June 1, 1875	31	10	7	945
163, 931	Kearney, Benjamin S., Franklinton, N. C. Car-coupling.....	June 1, 1875	77	26	7	941
160, 600	Kearns, William F., New York, N. Y. Piano stringing and tuning device.....	Mar. 9, 1875	322	108	7	404
	Keating, Anthony F. (See Harrington, Thomas H., assignor.)					
160, 332	Keating, Jeremiah H., Boston, Mass. Button-fastening.....	Mar. 2, 1875	68	24	7	358
	Keating, John. (See Oakley, John M., assignor.)					
169, 908	Keating, Thomas B., and Thomas G. Bristol, Mansfield, Ohio. Nut-lock.....	Nov. 16, 1875	598	186	8	828
	Keats, Alphonse. (See Keats, Greenwood & Keats.)					
171, 922	Keats, John, New Castle, Arthur Greenwood, Leeds, and Alphonse Keats, New Castle, { England. Boot and shoe sewing machine.....}	Dec. 28, 1875	964	{ 312 313 }	{ 8 8 }	{ 1103 1103 }
	Keebaugh, Joseph D., <i>et al.</i> (See Andrews, Edwin F., assignor.)					
	Keech, Baldwin. (See Hoopes & Smith, assignors.)					
158, 846	Keech, Thomas, New York, N. Y. Fare-box.....	Jan. 19, 1875	476	160	7	106
	Keegan, James D., jr., <i>et al.</i> (See Greanelle, Walling D., assignor.)					
	Keegan, John. (See Dunbar & Kegan.)					
163, 317	Keegan, Vincent E., Boston, Mass. Galvanic battery.....	May 18, 1875	576	184	7	846
165, 839	Keeler, Julius A., Olathe, Kans. Land-roller.....	July 20, 1875	703	214	8	129
	Keeley, Jerome. (See Fry, John L., assignor.)					
162, 237	Keely, Nice, Leverington, Pa. Paper barrel.....	Apr. 20, 1875	601	197	7	668
169, 107	Same..... Paper-tube machine.....	Oct. 26, 1875	779	253	8	697
6, 229	Keene, George A. Lynn, Mass., assignor, by mesne assignments, to Rubber Step Manu- facturing Company. Carriage-step..... (Reissue)	Jan. 12, 1875	400	134	7	80
161, 518	Keene, George A., Lynn, Mass. Prop-nut and rivet for carriages.....	Mar. 30, 1875	1214	390	7	545
163, 016	Keene, George A., Lynn, assignor to self and C. M. Clapp, Boston, Mass. Carriage-win- dow.....	May 11, 1875	278	90	7	791
162, 479	Keene, Samuel D., Providence, R. I. Machine for cleaning cotton.....	Apr. 27, 1875	852	274	7	707
163, 319	Keeney, Marble D., Rockton, Ill. Machine for making paper barrels.....	May 18, 1875	577	185	7	846
	Keep, Oliver H. (See Myers, James H., assignor)..... (Reissue.)					
8, 685	Keep, William J., Troy, N. Y. Cooking-stove..... (Design)	Oct. 5, 1875	.....	.....	8	550
160, 203	Kees, William H., and Lorenz Schmid, Cleveland, Ohio. Flue-cleaner or scraper.....	Feb. 23, 1875	922	303	7	331
165, 491	Kefauver, Jacob P., Madisonville, Tenn. Press.....	July 13, 1875	360	106	8	65
163, 661	Keiper, Henry B., assignor of one-half interest to John M. Keiper, Lancaster, Pa. Table- hinge for sewing-machines.....	May 25, 1875	902	286	7	896
	Keiper, John M. (See Keiper, Henry B., assignor.)					
163, 783	Keiser, Florenz, Pottstown, Pa. Axle-box.....	May 25, 1875	1004	318	7	909
	Keisker, Louisa. (See Polle, Keisker & Polle.)					
164, 010	Keith, Amos B., <i>et al.</i> (See Muther & Hentschel, assignors.)					
	Keith, Arza B., Braintree, and Timothy K. Reed, deceased, Eunice S. Reed, administra- trix, East Bridgewater, Mass., assignors, by mesne assignments, to Metallic Seam Com- pany, New Haven, Conn. Machine for forming and driving staples for leather-work..	June 1, 1875	141	50, 51	7	950
159, 932	Keith, David W., West Wareham, Mass. Nail-plate feeder.....	Feb. 16, 1875	666	{ 220 221 }	{ 7 7 }	{ 288 288 }
	Keith, Henry L. (See Ives, George L., assignor.)					
160, 527	Keith, Jeremiah, Providence, R. I. Water-elevator.....	Mar. 9, 1875	257	83	7	394
170, 741	Same..... Sewing-machine.....	Dec. 7, 1875	79	25	8	961
170, 955	Keith, Thomas K., Haverhill, Mass. Machine for cutting and blacking the welts in boots and shoes.....	Dec. 14, 1875	785	96	8	996
	Keith, W. H., <i>et al.</i> (See Perry, John L., assignor.)					
	Kelchner, William W. (See Gross & Kelchner.)					
160, 439	Kellam, Daniel C., Detroit, Mich. Bed-bottom.....	Mar. 2, 1875	162	57	7	372
	Kellar, James M. (See Kellar, Martin L., and James M.)					
161, 966	Kellar, Martin L., and James M., Luzerne, Iowa. Harvester-wheel.....	Apr. 13, 1875	342	115	7	628
163, 207	Kellberg, John W., Philadelphia, Pa. Guide-roller for web-printing presses.....	May 11, 1875	455	147	7	814
167, 840	Same..... Delivering apparatus for printing-presses.....	Sept. 21, 1875	437	139	8	483
167, 841	Same..... same.....	Sept. 21, 1875	438	140	8	484
168, 750	Keller, Charles F., Healdsburg, Cal. Combined planter and cultivator.....	Oct. 11, 1875	418	136	8	632
171, 227	Keller, John, New York, N. Y. Calendar.....	Dec. 21, 1875	572	188	8	1041
6, 598	Keller, Nicholas J., East Birmingham, Pa. Sand and gravel separator..... (Reissue)	Aug. 17, 1875	710	{ 220 221 }	{ 8 8 }	{ 317 317 }
163, 382	Keller, Nicholas J., Pittsburgh, Pa. Sand and gravel separator.....	May 18, 1875	633	203	7	853
167, 842	Keller, Simon, Wrightsville, Pa. Gate for railway-crossings.....	Sept. 21, 1875	439	140	8	484
8, 013	Kellett, Samuel, San Francisco, Cal. Center-piece..... (Design)	Jan. 19, 1875	.....	.....	7	93
8, 014	Same..... same..... (Design)	Jan. 19, 1875	.....	.....	7	93
8, 015	Same..... same..... (Design)	Jan. 19, 1875	.....	.....	7	93
8, 016	Same..... same..... (Design)	Jan. 19, 1875	.....	.....	7	93
8, 017	Same..... same..... (Design)	Jan. 19, 1875	.....	.....	7	93
170, 271	Kellett, Thomas A., assignor of one-half interest to T. S. Fellows, Wells, Minn. Camera- obscura.....	Nov. 23, 1875	949	297	8	882
168, 568	Kelley, David M., Burke, N. Y. Bolt and rivet cutter.....	Oct. 11, 1875	252	83	8	607
	Kelley, George W. (See Way, Martin and Thomas R., assignors)					
163, 594	Kelley, George W., Wabash, Ind. Animal-trap.....	May 25, 1875	846	267	7	888
	Kelley, John C. (See Webster, Joel, assignor.)					
170, 272	Kelley, John C., Pearsall's, N. Y. Register-dial for water-meters.....	Nov. 23, 1875	950	297	8	882
168, 645	Kelley, Joseph F., Washington, D. C. Mechanical device.....	Oct. 11, 1875	327	106	8	618
168, 400	Kellie, William M., Nashville, Tenn. Stencil-plate.....	Oct. 5, 1875	73	26	8	575

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 099	Kellogg, Albert A., assignor to self and Miles E. Cartwright, Montgomery, Mich. Car-coupling	Jan. 26, 1875	737	244	7	148
160, 528	Kellogg, Ansel N., Chicago, Ill. Toilet-pin	Mar. 9, 1875	258	88	7	394
163, 872	Same. Stereotype-plate holder	June 1, 1875	32	10	7	935
163, 873	Same. Stereotype-block	June 1, 1875	33	10	7	935
163, 874	Same. Stereotype-plate	June 1, 1875	34	10	7	935
166, 702	Kellogg, Ansel N., and James J. Schock, Chicago, Ill. Stereotype-plate holder	Aug. 17, 1875	508	156	8	287
162, 077	Kellogg, Charles, Athens, Pa. Construction of iron truss-bridges	Apr. 13, 1875	433	144	7	640
158, 945	Kellogg, Charles H., Leverett, Mass. Paper-bag machine	Jan. 19, 1875	570	189	7	117
159, 582	Kellogg, Charles H., East Leverett, Mass. Paper-bag machine	Feb. 9, 1875	329	{ 108 109 }	{ 7 7 }	238
168, 027	Kellogg, Dayton S. (See Lintner, Weller & Kellogg.) Kellogg, Eugene P., New York, N. Y. Sleeping-car Kellogg, H. C. (See Pratt, Seraiah M., assignor.) Kellogg, James D. (See Kellogg, Russel, assignor.)	Sept. 21, 1875	597	191	8	507
161, 883	Kellogg, J. Dwight, jr., Northampton, Mass. Skate	Apr. 13, 1875	271	91	7	619
165, 840	Kellogg, Luke L., Leon, N. Y. Clock-calendar	July 20, 1875	704	214	8	129
163, 784	Kellogg, Norman G. (See Jennings, Ralph S., assignor) (Reissue.) Kellogg, Orson W., assignor of one-half interest to Milford Van Dressar, Fond du Lac, Wis. Street-sweeper	May 25, 1875	1005	319	7	909
168, 569	Kellogg, Orson W., assignor of one-half interest to Augustus F. Cady, Fond du Lac, Wis. Street-sweeper	Oct. 11, 1875	253	83	8	607
165, 841	Kellogg, Russel, assignor to self and James D. Kellogg, Battle Creek, Mich. Hay-knife	July 20, 1875	704	214	8	129
166, 011	Kellogg, Timothy, McGregor, Iowa. Windmill	July 27, 1875	876	270	8	105
162, 753	Kellogg, Warren T., Troy, N. Y. Curry-comb	May 4, 1875	16	6	7	749
162, 754	Kellogg, William P., Troy, N. Y. Curry-comb	May 4, 1875	17	6	7	749
171, 386	Kellogg, William P., and John W. Trussell, Troy, N. Y. Curry-comb	Dec. 21, 1875	712	{ 235 236 }	{ 8 8 }	1061
169, 270	Kelly, Charles. (See Uncles, Benjamin, assignor.) Kelly, Daniel R., assignor to Clark, Reeves & Co., Philadelphia, Pa. Traversing-scaffold Kelly, Edward W., et al. (See Hunter, William K., assignor.) Kelly, James M., et al. (See Gue, Albert F., assignor) (Reissue.)	Oct. 26, 1875	923	299	8	717
161, 884	Kelly, James M., Austin, Ill. Car-brake	Apr. 13, 1875	272	91	7	619
164, 305	Kelly, John, assignor of one-half interest to Joseph H. Barker, Baltimore, Md. Screw-propeller	June 8, 1875	442	146	7	1001
167, 612	Kelly, John, Troy, Ohio. Corn-planter Kelly, Michael. (See Hughes & Kelly.) Kelly, Michael. (See Hughes, Samuel, assignor) (Reissue.)	Sept. 14, 1875	220	68	8	444
170, 478	Kelly, Michael, New York, N. Y. Corn-shield Kelly, R. C. (See Knapp, Overt B., assignor.) Kelly, Sylvester R. (See McCormack & Kelly.)	Nov. 30, 1875	1152	363	8	919
161, 967	Kelly, William H., Terre Haute, Ind. Bucket for chain-pumps	Apr. 13, 1875	342	115	7	628
171, 025	Kelsey, Christopher P., Richmondville, N. Y. Manufacture of grain-cradle fingers	Dec. 14, 1875	349	116	8	1004
167, 258	Kelsey, Denison A., Quincy, Ill. Whip-socket	Aug. 31, 1875	1063	331	8	3-2
163, 3-0	Kelsey, Orlando, Worcester, Mass. Heating and ventilating apparatus for buildings	May 18, 1875	578	185	7	846
164, 306	Kelshaw, John, Indianapolis, Ind. Stove-pipe and drum	June 8, 1875	443	146	7	1001
166, 782	Kelso, George R. (See Ulmar, John B., assignor.) Kelso, Robert. (See Watson & Kelso.) Kemp, Thomas O., Beamsville, Canada. Boiler-cleaner	Aug. 17, 1875	582	179	8	298
164, 460	Kemper, Earnest G. (See Evans & Kemper.) Kemper, John T., Hannibal, Mo. Earth-auger Kempf, Joseph. (See Ernst, Joseph, assignor.)	June 15, 1875	603	195	7	1031
165, 933	Kempshall, Eleazer, assignor to self and William Nash, New Britain, Conn. Snap-hook	July 20, 1875	804	247	8	155
166, 783	Kempshall, Eleazer, New Britain, Conn., assignor to William J. Phelps and Willard P. Abernethy, Springfield, Mass. Harness-snap	Aug. 17, 1875	583	179	8	298
163, 662	Kendall, Adoniram, Cleveland, Ohio. Governor for steam-engines	May 25, 1875	903	287	7	896
168, 903	Kendall, Edward, et al. (See Shaw, Benjamin F., assignor.) Kendall, James, Boston, assignor to Charles E. Ashcroft, Lynn, Mass. Pocket-lamp	Oct. 19, 1875	564	184	8	660
166, 784	Kendall, John J., Greensborough, N. C. Shingle-machine	Aug. 17, 1875	564	180	8	299
170, 630	Same. Spinning-wheel	Nov. 30, 1875	1298	409	8	938
167, 259	Kendall, John L., Foxborough, Mass. Sponge and pulp fabric Kendall, Josiah B. (See Collinson, Henry, assignor.)	Aug. 31, 1875	1063	331	8	382
159, 184	Kendall, Orson B., Buffalo, N. Y. Low-water indicator for steam-boilers	Jan. 26, 1875	815	267	7	158
166, 532	Kendrick, Andrew W., Brooklyn, N. Y. Grain-separator Kendrick, Tunis T. (See Ogborn & Kendrick.)	Aug. 10, 1875	339	104	8	255
169, 909	Kengle, William F., Rockport, Pa. Stump-extractor	Nov. 16, 1875	599	186	8	828
162, 238	Kenison, Orrin W., Lawrence, Mass. Harness-motion for looms	Apr. 20, 1875	602	197	7	668
169, 552	Same. Shedding-mechanism for looms Kennan, James. (See Eustace & Kennan.) Kennan, James, et al. (See Eustace, Marcus, assignor.) Kennan, Thomas. (See Eustace & Kennan.) Kennan, Thomas, et al. (See Eustace, Marcus, assignor.)	Nov. 2, 1875	212	70	8	763
164, 307	Kennard, Robert G. J., Brooklyn, N. Y. Implement for holding hot corn	June 8, 1875	444	147	7	1001
167, 906	Kenneday, Jordan C., Big Lick, N. C. Blower for fire-places	Sept. 21, 1875	496	157	8	492
164, 181	Kennedy, Charles, Hinckley, Ill. Barbed-wire fence	June 8, 1875	324	110	7	986
163, 785	Kennedy, Daniel, New York, N. Y. Valve-movement for rock-drills	May 25, 1875	1005	319	7	910
165, 738	Kennedy, David J., Philadelphia, Pa. Window-mirror	July 20, 1875	596	193	8	115
161, 968	Kennedy, De Laney, New York, N. Y. Metal-punch Kennedy, D. W. (See Shepard, Lewis, assignor.)	Apr. 13, 1875	342	115	7	628
164, 182	Kennedy, Ebenezer F., Oil City, Pa. Coffee-pot Kennedy, James. (See Barclay & Kennedy.)	June 8, 1875	325	111	7	986
165, 004	Kennedy, John C., Chicago, Ill., assignor of one-half interest to Henry Kiley, Toledo, Ohio. Apparatus for charging beer with gas Kennedy, John T. (See Prindle & Kennedy.) Kennedy, Lewis B. (See Mitchell & Kennedy.) Kennedy, Lizzie H., et al. (See Gill & Beisel, assignors.) Kennedy, Samuel A. (See Zane & Kennedy.) Kennedy, Thomas. (See Bates, Charles L., assignor.)	June 29, 1875	1115	360	7	1114
159, 100	Kennedy, William M., Pittsburgh, Pa. Process of moistening grain preparatory to grinding Kenney, Charles H. (See Wright & Kenney.)	Jan. 26, 1875	739	.....	7	148
170, 956	Kenney, Thomas M., and Eugene L. Willard, Keene, N. H. Machine for sawing fellies	Dec. 14, 1875	786	96	8	996
162, 239	Kennoch, William W., New York, N. Y., and Ezra T. and James F. Gilliland, Cincinnati, Ohio. Burglar-alarm Kenny & McPartland, et al. (See Miller, William H., assignor.)	Apr. 20, 1875	603	197	7	668

Alphabetical list of patentees for the year 1875—Continued.

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169, 271	Kenny, Arthur, assignor of one-half interest to W. H. and J. E. Miller, New York, N. Y. } Manufacture of button-gaiters.....	Oct. 26, 1875	924	{ 299 300 }	8	718
169, 708	Kenny, Arthur, New York, N. Y. Button-gaiter.....	Nov. 9, 1875	390	122	8	794
163, 321	Kenny, Charles, New York, N. Y., assignor of one-half interest to George Walker, Little Falls, N. Y. Harness-saddle.....	May 18, 1875	579	185	7	846
160, 775	Kenny, Francis, assignor to self, Julius A. Case, and Julius G. Rathbun, Hartford, Conn. Double-seaming machine.....	Mar. 16, 1875	503	163	7	435
159, 933	Kenny, Frederick J., Boston, Mass. Ship's lantern.....	Feb. 16, 1875	667	221	7	289
163, 161	Kenny, John, Dover Road, England. Machine for forming imitation button-holes.....	Sept. 28, 1875	756	239	8	536
160, 916	Kenny, Joseph M., Blairsville, Pa. Railway-rail joint.....	Mar. 16, 1875	619	202	7	451
	Kent, Benjamin. (See Clarkson, George, assignor.)					
165, 676	Kent, Brazilla, Binghamton, N. Y. Grab for removing detached drills from artesian wells.....	July 20, 1875	544	166	8	107
171, 228	Same..... Preventing hydrants from freezing.....	Dec. 21, 1875	572	188	8	1042
169, 108	Kent, Henry T., and Sidney Moore, Clifton, Pa. Stop-motion for looms.....	Oct. 26, 1875	781	253	8	697
163, 208	Kent, James M., Campbell, N. Y. Railway-spike.....	May 11, 1875	475	147	7	874
166, 113	Kent, James M., Curtis, N. Y. Nut-lock.....	July 27, 1875	973	300	8	179
160, 684	Kent, John, New York, and Henry Leeson, Locust Valley, N. Y.; said Leeson assignor to said Kent. Knit fabric.....	Mar. 9, 1875	391	132	7	414
160, 685	Same..... Knitting-machine.....	Mar. 9, 1875	392	{ 132 133 }	7	414
163, 209	Kent, John, New York, N. Y. Sock, mitten, &c.....	May 11, 1875	456	147	7	814
159, 663	Kent, Lucius M., Saint Johnsbury, Vt. Lamp-supporter.....	Feb. 9, 1875	419	139	7	250
	Kent, William H. (See Winne & Kent.)					
161, 885	Kenworthy, Silas B., and Jacob R. Vanmeter, Van Metre, Iowa; said Kenworthy assignor to said Vanmeter. Feed-regulator for mills.....	Apr. 13, 1875	273	91	7	619
164, 565	Kenyon, Martin R., assignor of thirteen-twentieths interest to Nathan B. Hail and } Edward J. Bicknell, Providence, R. I. Hair-weaving loom.....	June 15, 1875	689	{ 223 224 }	7	1043
166, 929	Kepler, Jacob C., Richmond, Ind. Proof-staff for millstones.....	Aug. 24, 1875	732	227	8	329
163, 498	Kepner, Robert B., Washington, D. C. Live-bait receptacle.....	May 18, 1875	743	236	7	867
159, 271	Kepner, Solomon, assignor of one-half interest to J. E. Parker, Pottstown, Pa. Grate.....	Feb. 2, 1875	27	9	7	188
162, 662	Kepner, Solomon, Pottstown, Pa. Automatic governor for hot-air furnaces.....	Apr. 27, 1875	1009	323	7	727
171, 229	Kepple, John, Edwardsport, assignor to self and Oliver R. Daugherty, Indianapolis, Ind. Baling barrel-headings.....	Dec. 21, 1875	573	188	8	1042
167, 177	Ker, William W., assignor of two-thirds interest to Isaac L. Shroeder and John C. Goodrich, Chicago, Ill. Stock-car.....	Aug. 31, 1875	995	309	8	372
	Kernochan, Robert L., et al. (See Allen, Hosea, assignor.)					
159, 934	Kerper, Jacob N., Washington, D. C. Machine for dusting bricks.....	Feb. 16, 1875	668	221	7	289
170, 742	Kerper, Jacob N., assignor of one-half interest to Isaac P. Childs, Washington, D. C. Clay-pulverizing machine.....	Dec. 7, 1875	80	25, 26	8	961
170, 378	Kerr, Christopher C., Springfield, Mo. Meat-mangler.....	Nov. 23, 1875	1041	327	8	855
6, 692	Kerr, Hugh S., Philadelphia, Pa. Sponge-brush..... (Reissue)	Oct. 11, 1875	485	157	8	641
8, 222	Same..... Call-bell..... (Design)	Mar. 23, 1875			7	466
8, 741	Same..... Book or secretary case..... (Design)	Oct. 19, 1875			8	645
8, 833	Same..... Inkstand..... (Design)	Dec. 7, 1875			8	945
8, 847	Same..... Toy balloon..... (Design)	Dec. 14, 1875			8	988
8, 590	Kerr, William, assignor to John Gay, Philadelphia, Pa. Carpet..... (Design)	Aug. 31, 1875			8	364
170, 090	Kerr, William J., Springfield, Mo. Invalid-bedstead.....	Nov. 16, 1875	761	241	8	849
158, 379	Kershaw, Charles S., Sherburne, N. Y. Hay-elevator.....	Jan. 5, 1875	24	8	7	12
	Kessler, Jacques L. (See Fauré & Kessler.)					
169, 272	Kester, Ira, Wayland, N. Y. Carriage-wheel.....	Oct. 26, 1875	924	300	8	718
171, 387	Kettell, James F., Worcester, Mass. Electrical station-indicator.....	Dec. 21, 1875	713	236	8	1061
163, 663	Ketterer, Charles P., New York, N. Y. Carriage-curtain fastening.....	May 25, 1875	904	287	7	896
159, 684	Kettle, Louis A., Philadelphia, Pa., assignor of one-half interest to Rupert Kettle, Merri- dale, England. Paper box.....	Feb. 9, 1875	419	139	7	250
164, 005	Same..... same.....	June 1, 1875	138	49	7	150
164, 742	Kettle, Louis A., Philadelphia, Pa. Paper box.....	June 22, 1875	860	279	7	1074
	Kettle, Rupert. (See Kettle, Louis A., assignor.)					
159, 583	Key, Minter P., Waxahachie, Tex. Folding store-shelf.....	Feb. 9, 1875	331	109	7	238
	Keyes, Amos H. (See Keyes, Walter H., assignor.)					
166, 616	Keyes, Henry C., and Jedediah P. Clark, Philadelphia, Pa. Electric train-telegraph.....	Aug. 10, 1875	411	127	8	265
161, 126	Keyes, Walter H., assignor of one-half interest to Amos H. Keyes, Princeton, Mass. Pencil-sharpener.....	Mar. 23, 1875	823	269	7	487
163, 595	Keys, John, and John R. De Mier, Coulterville, Ill. Wheel-plow.....	May 25, 1875	847	{ 267 268 }	7	888
	Kibbee, Henry C. (See Disney, Mordecai, assignor.)					
	Kidd, Benjamin F. (See Jones & Kidd.)					
	Kidd, James. (See Critchlow & Kidd.)					
164, 183	Kidder, Jerome, New York, N. Y. Caution electrode.....	June 8, 1875	326	111	7	986
164, 184	Same..... Vesicular electrode.....	June 8, 1875	327	111	7	986
164, 185	Same..... Reservoir-electrode.....	June 8, 1875	327	111	7	986
166, 012	Same..... Galvanic battery.....	July 27, 1875	877	270	8	165
164, 093	Kidder, Moses W., Boston, assignor of one-half interest to Person Noyes, Lowell, Mass. Gas-making process.....	June 8, 1875	246	85	7	975
165, 168	Kidder, Moses W., assignor of one-half interest to Person Noyes, Boston, Mass. Coal- gas apparatus.....	July 6, 1875	20	7	8	11
168, 904	Kidder, Moses W., Boston, assignor to self and Person Noyes, Lowell, Mass. Process } and apparatus for the manufacture of illuminating-gas.....	Oct. 19, 1875	564	{ 184 185 186 187 188 }	8	660
168, 751	Kidder, Samuel R., Bantam Falls, Conn. Clothes-drier.....	Oct. 11, 1875	419	137	8	632
160, 333	Kidder, Wellington P., Malden, Mass. Printing-press.....	Mar. 2, 1875	68	24	7	358
169, 175	Kiehl, George A., and Ernst H. Kohler, Lancaster, Pa. Combined bottle-opener, knife, ice-pick, grater, and cork-screw.....	Oct. 26, 1875	838	273	8	706
160, 828	Kiergaard, Frederick C., Philadelphia, Pa. Personal ornament.....	Mar. 16, 1875	550	178	7	441
	Kilburn, A., et al. (See Curtis, Harrison W., assignor.)					
	Kilburn, Artemus, et al. (See Stevens, Asher B., assignor.)					
	Kilburn, C., et al. (See Curtis, Harrison W., assignor.)					
	Kilburn, Cheney, et al. (See Stevens, Asher B., assignor.)					
160, 334	Kilburn, Wells, Napa City, Cal. Candlestick.....	Mar. 2, 1875	69	25	7	358
	Kiley, Henry. (See Kennedy, John C., assignor.)					
	Killinger & Co. (See Schrock, Andrew, assignor.)					
	Killpatrick, John. (See Masterson, Levi J., assignor.)					

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161, 519	Kilpatrick, Robert L., Springfield, Ohio. Railway-signal.....	Mar. 30, 1875	1215	{ 390 391	7	545
166, 013	Kimball, Charles E., New York, N. Y. Apple corer and slicer.....	July 27, 1875	878	270	8	165
	Kimball, Charles L. (See V n Buskirk, William G., assignor.)					
165, 490	Kimball, Frederick J., Philadelphia, Pa. Door for grain-cars.....	July 13, 1875	360	106	8	65
168, 162	Kimball, Hiram A., Philadelphia, Pa. Saw gumming and setting machine.....	Sept. 23, 1875	757	240	8	537
169, 007	Same..... Chuck.....	Oct. 19, 1875	661	217	8	674
169, 998	Same..... Combined universal lathe and belt-saw.....	Nov. 16, 1875	671	211	8	837
170, 273	Kimball, Hiram A., assignor to Benjamin C. Everett, Philadelphia, Pa. Truss.....	Nov. 23, 1875	951	297	8	882
163, 383	Kimball, John J., Naperville, Ill. Wind-wheel.....	May 18, 1875	634	204	7	853
164, 743	Kimball, John M., Wyoming, Iowa. Hog-trap.....	June 22, 1875	860	280	7	1075
160, 335	Kimball, Joseph, Pleasant Home, Nebr. Sulky-harrow.....	Mar. 2, 1875	70	25	7	359
	Kimball, Melville C. (See Danforth, Aciel A., assignor.)					
169, 553	Kimball, William H., Burlington, N. J. Scroll-sawing machine.....	Nov. 2, 1875	213	70	8	763
164, 006	Kimber, Abraham, Muncie, Ind., assignor of one-half interest to William G. McMinn, Wiley, Pa. Lamp-burner.....	June 1, 1875	139	49	7	950
163, 786	Kimble, Smith W., assignor of three-fourths interest to Arthur Leggott, Silas W. Hickox, and Augustin Rafter, Springfield, Ill. Air-heating and ventilating furnace.....	May 25, 1875	1006	319	7	910
162, 290	Kimel, Dwight D., Bement, Ill. Car-brake.....	Apr. 20, 1875	648	211	7	674
	Kimerer, John. (See Calhoun & Kimerer.)					
158, 642	Kimplin, Cornelius, Chicago, Ill. Plow-beam.....	Jan. 12, 1875	272	92	7	62
160, 020	Kincaid, John A., Boston, Mass. Dasher-flap fastener.....	Feb. 23, 1875	768	253	7	99
161, 417	Kinderman, William, Troutville, Pa. Automatic cradle.....	Mar. 30, 1875	1116	361	7	532
	Kiudermann, August. (See Harris & Kiudermann.)					
	Kinehan, Lawrence, et al. (See Milgate, George C., assignor.)					
	King & Co., William. (See King, William, assignor.)					
	King, A. D., et al. (See Rider, William H., assignor.)					
169, 176	King, Benjamin, Jonesburgh, Mo. Corn-planter.....	Oct. 26, 1875	838	273	8	706
160, 915	King, Charles A., assignor to Charles Parker, Meriden, Conn. Breech-loading fire-arm.....	Mar. 16, 1875	618	202	7	451
161, 686	King, Delancy, Salamanca, N. Y. Truss.....	Apr. 6, 1875	84	29	7	581
	King, Edwin A. (See King, Phineas F. and Edwin A.)					
	King, Edwin H. (See Chandler & King.)					
	King, Francis. (See Halbert & King.)					
159, 550	King, George B., assignor of one-half interest to William J. Dorrington, Lawrence, Mass. Street-sign.....	Feb. 9, 1875	308	100	7	234
6, 518	King, George E., assignor to Frederic A. Kursheedt, New York, N. Y. Trimming. (Reissue).....	June 29, 1875	1248	401	7	1133
164, 308	King, Harry, Washington, D. C. Draftsmen's mixing-cup.....	June 8, 1875	445	147	7	1001
167, 672	King, Henry B., Paterson, N. J. Toy whistle.....	Sept. 14, 1875	270	84	8	451
170, 274	King, Henry B., and Christopher McKiernan, Paterson, N. J. Steam-whistle.....	Nov. 23, 1875	952	298	8	882
162, 928	King, Henry F., Corry, Pa. Sectional boiler.....	May 4, 1875	174	58	7	770
161, 520	King, Henry W., Canaan, N. Y. Potato-digger.....	Mar. 30, 1875	1216	391	7	546
158, 716	King, Jacob, assignor to Joseph K. English and Ewald Over, Indianapolis, Ind. Grain-drill.....	Jan. 12, 1875	338	115	7	72
	King, James. (See McGahey & King.)					
163, 169	King, James R., Modesto, Cal. Furnace for burning straw.....	July 6, 1875	25	7, 8	8	12
	King, Job. (See McCall, Mortimer, assignor.)					
	King, J. T., et al. (See Minor, John O., assignor.)					
168, 028	King, Laurin L., Lake View, Ill. Device for rocking cradles.....	Sept. 21, 1875	599	191	8	508
	King, Lucien B., et al. (See Webster, Joshua B., assignor.)					
	King, Marquis D., et al. (See Webster, Joshua B., assignor.)					
168, 504	King, Norman, and Winfield Scott, Etna, Pa. Rolling-mill.....	Oct. 5, 1875	165	54	8	588
167, 260	King, Phineas F. and Edwin A., Saint Louis, Mo. Railway-rail-joint fastening.....	Aug. 31, 1875	1064	331	8	382
163, 875	King, Ralph T., Cleveland, and Lucien L. Nunn, Oberlin, Ohio. Railway-crossing signal.....	June 1, 1875	34	11	7	935
	King, Robert W., et al. (See Welter, James K., assignor.)					
158, 946	King, Samuel M., Lancaster, Pa. Machine for dressing shingles.....	Jan. 19, 1875	571	189	7	118
160, 270	King, Smith G., Round Grove, Ill. Sheaf-dropper for harvesters.....	Mar. 2, 1875	14	6	7	351
	King, Son & Co. (See King & Sperber, assignors.)					
	King, Son & Co. (See King, William C., assignor.)					
170, 674	King, Theodore E., Rockville, Conn. Curtain-fastener.....	Dec. 7, 1875	19	6	8	953
	King, Thomas P. (See Van Noughuys, Isaac, assignor.)					
166, 468	King, W. Haskell, Somerville, assignor of one-half interest to John W. Larabee, Springfield, Mass. Windlass.....	Aug. 10, 1875	289	86	8	247
166, 467	King, William, Perth Amboy, N. J., assignor to William King & Co., New York, N. Y. Cork.....	Aug. 10, 1875	288	.....	8	247
6, 222	King, William C., Pittsburgh, Pa. Covered jar..... (Reissue).....	Jan. 12, 1875	393	132	7	79
163, 787	King, William C., Union Township, assignor to King, Son & Co., Pittsburgh, Pa. Manufacture of glassware.....	May 25, 1875	1007	319	7	910
162, 480	King, William C., and August Sperber, assignors to King, Son & Co., Pittsburgh, Pa. Glass-mold.....	Apr. 27, 1875	853	274	7	708
159, 101	King, William H., assignor to self and Jerome Borer, Petersburg, Ind. Music-leaf turner.....	Jan. 26, 1875	739	244	7	148
6, 716	King, William R., U. S. A. Rock-drill..... (Reissue).....	Oct. 26, 1875	984	{ 318 319	8	726
166, 930	King, William R., Willett's Point, N. Y. Hydrostatic compensatory apparatus for metallic bridges.....	Aug. 24, 1875	734	227	8	329
170, 174	Kingham, William, New York, N. Y. Ventilating churches, houses, &c.....	Nov. 23, 1875	864	270	8	170
158, 947	Kingman, Samuel C., Bridgeport, Conn. Machine for grooving sewing-machine needles.....	Jan. 19, 1875	571	190	7	118
160, 686	Same..... Machine for beveling the ends of needle-blanks.....	Mar. 9, 1875	394	133	7	414
161, 240	Same..... Machine for flattening the shanks of machine-needles.....	Mar. 23, 1875	927	302	7	501
162, 175	Kingman, Samuel C., assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Machine for punching the eyes of machine-needles.....	Apr. 20, 1875	543	178	7	661
163, 384	Same..... Machine for polishing the eyes of machine-needles.....	May 18, 1875	635	204	7	853
159, 551	Kingsbury, Andrew B., Utica, assignor of two-thirds interest to William Dent, Mohawk, and Edwin L. Kingsbury, Hamilton, N. Y. Machine for crozing staves.....	Feb. 9, 1875	308	100	7	234
	Kingsbury, Edwin L., et al. (See Kingsbury, Andrew B., assignor.)					
166, 389	Kingsbury, John D., East Bloomfield, N. Y. Weighing apparatus for wagons.....	Aug. 3, 1875	192	57	8	226
	Kingsland, Ferguson & Co. (See Reeder, William, assignor.)					
	Kingsland, Lucy S., et al. (See Wills, Harry A., assignor.)					
	Same..... same..... (Reissue).....					
161, 241	Kingsley, Charles L., assignor to Charles Parker, Meriden, Conn. Vise.....	Mar. 23, 1875	928	303	7	501
	Kingsley, D., et al. (See Pickel, Russel, assignor.)					
	Kingsley, S. D. (See Munson, William, assignor.)					
162, 291	Kingston, Charles H., assignor of one-third interest to Bertrand W. Stone, Worcester, Mass. Throat-gear for gaffs.....	Apr. 20, 1875	648	212	7	674

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165, 239	Kinn, Friedrich, assignor to William Seyd, New York, N. Y. Lock for pocket-books....	July 6, 1875	90	27	8	21
159, 828	Kinne, Charles W., Cortland, N. Y. Wagon-body	Feb. 16, 1875	569	189	7	275
171, 517	Kinnersley, Henry, Liverpool, England. Signaling device	Dec. 28, 1875	855	279	8	1088
162, 827	Kinney, Francis S., New York, N. Y. Box for packing and showing goods	May 4, 1875	83	28	7	738
164, 186	Same..... Machine for handling straight-cut tobacco.....	June 8, 1875	328	112	7	986
169, 008	Kinney, John P., Brooklyn, N. Y. Process for purifying and preserving animal fats	Oct. 19, 1875	661	.....	8	674
169, 709	Kinsey, Ernest U., Passaic, N. J. Toy building-block.....	Nov. 9, 1875	390	123	8	794
	Kinsey, William B. (See Conklin, Ira J., assignor.)					
170, 957	Kinsley, Edward G., assignor to self and Luther Belcher, jr., Stoughton, Mass. Glove-paddle for swimmers	Dec. 14, 1875	786	96	8	996
	Kinsman, Frank M. (See Peirce & Kinsman.)					
160, 687	Kinsman, John H., Salem, Mass., and Friend W. Smith, Bridgeport, Conn. Wash-basin.	Mar. 9, 1875	396	133	7	414
162, 663	Kinsman, John H., Salem, Mass. Indicator-lock.....	Apr. 27, 1875	1010	{ 323 } { 324 }	{ 7 }	{ 728 }
	Kintz, Joseph. (See Clark & Kintz.)					
6, 230	Kintz, Joseph, West Meriden, Conn., assignor to self and Patrick J. Clark. Lantern. (Reissue)	Jan. 12, 1875	402	135	7	80
8, 053	Kintz, Joseph, assignor to self and P. J. Clark, West Meriden, Conn. Bracket-cup for chandeliers	Feb. 9, 1875	.....	.....	7	223
163, 199	Kintz, Henry P., and Friederich Gehrke, Arlington Heights, Ill. Ironing-table.....	May 11, 1875	450	145	7	813
6, 282	Kinzer, Jacob, Pittsburgh, Pa. Case for reversible latches and locks..... (Reissue) ..	Feb. 9, 1875	474	159	7	258
160, 336	Kinzer, Jacob, assignor to self, David M. Watt, Robert Pitcairn, and John J. Torley, Pittsburgh, Pa. Seal-lock	Mar. 2, 1875	70	25	7	359
160, 337	Same..... same.....	Mar. 2, 1875	72	26	7	359
160, 338	Same..... same.....	Mar. 2, 1875	74	26	7	359
164, 377	Kipp, Abraham, jr., assignor of one-half interest to Edward Everett, Sing Sing, N. Y. Sectional steam-boiler	June 15, 1875	523	172	7	1021
158, 500	Kirby, John, jr., Adrian, Mich. Car-lamp.....	Jan. 5, 1875	134	44, 45	7	27
171, 518	Kirby, John, Cleveland, Ohio. Device for operating car-brakes	Dec. 28, 1875	855	280	8	1088
170, 743	Kirby, Nabum W., Indianapolis, Ind. Feed-water heater.....	Dec. 7, 1875	81	26	8	961
171, 388	Kirchner, John A., Chicago, Ill. Cradle-treadle	Dec. 21, 1875	719	236	8	1061
6, 805	Kirchoff, Charles, Newark, N. J. Candle-holder..... (Reissue) ..	Dec. 14, 1875	546	179	8	1030
170, 479	Kirk, Arthur, Pittsburgh, Pa. Rock-drilling machine.....	Nov. 30, 1875	1153	363	8	919
168, 419	Kirk, Edward, jr., Sheridan, Ill. Eaves-trough hanger.....	Jan. 5, 1875	59	20	7	17
	Kirk, George R. (See Graham, John, assignor.)					
164, 922	Kirk, Lewis, Rising Sun, Md. Hay and straw press.....	June 29, 1875	1047	337	7	1105
	Kirk, William P. (See Faraday, John, assignor.)					
	Kirkland, Samuel D. (See Wroth, Alfred B., assignor.)					
164, 008	Kirkpatrick, Columbus B., Parkersburgh, W. Va. Stair-builder's adjustable square....	June 1, 1875	140	50	7	950
	Kirkpatrick, Cornwall, et al. (See Norris, Robert, assignor.)					
	Kirkpatrick, Wallace, et al. (See Norris, Robert, assignor.)					
	Kirksey, Wellington H. (See Nunneler & Kirksey.)					
169, 710	Kirkwood, David, and Henry Mortimer, Boston, Mass. Lock for fire-arms	Nov. 9, 1875	391	123	8	794
167, 907	Kirkwood, Thomas B., Dublin, Ind. Washing-machine	Sept. 21, 1875	496	157	8	492
169, 177	Kirkwood, Thomas B., Bentonville, Ind. Corn-marker.....	Oct. 26, 1875	839	273	8	706
162, 754	Kirtland, Charles E., Milwaukee, Wis. Mechanism for casting the lead on vessels	May 4, 1875	17	6	7	749
164, 007	Kirtley, Fielding L., Cleburne, Tex. Car-brake.....	June 1, 1875	139	50	7	950
164, 009	Same..... same.....	June 1, 1875	141	50	7	950
	Kirtley, John E. (See Sneed & Kirtley.)					
159, 935	Kirtley, St. Clair D., Philadelphia, Pa. Metallic lip for wooden pails, &c	Feb. 16, 1875	668	222	7	289
159, 936	Kirton, James H., Rockford, Ill. Harvester-rake	Feb. 16, 1875	669	222	7	289
162, 929	Same..... Harvester	May 4, 1875	175	58, 59	7	770
	Kiser, George. (See McKlinley, Walter, assignor.)					
163, 788	Kisor, John, Nevada, Ohio. Machine for making boxes	May 25, 1875	1007	320	7	910
168, 752	Same..... Box-machine	Oct. 11, 1875	420	137	8	632
169, 554	Kiss, Emerick, New York, N. Y. Table-bedstead	Nov. 2, 1875	213	70, 71	8	763
164, 566	Kissam, George F., assignor to J. D. Kissam, New York, N. Y. Fire-proof shutter.....	June 15, 1875	690	224	7	1043
	Kissam, J. D. (See Kissam, George F., assignor.)					
	Kitchen, William R. (See Glover, Joshua W., assignor.)					
8, 359	Kitschelt, Charles, assignor to Nicholas Muller's Sons, New York, N. Y. Inkstand-support	June 1, 1875	.....	.....	7	926
8, 360	Same..... same..... (Case A. Design) ..	June 1, 1875	.....	.....	7	926
8, 361	Same..... same..... (Case B. Design) ..	June 1, 1875	.....	.....	7	926
8, 362	Same..... same..... (Case C. Design) ..	June 1, 1875	.....	.....	7	926
8, 363	Same..... same..... (Case D. Design) ..	June 1, 1875	.....	.....	7	926
8, 421	Same..... same..... (Case E. Design) ..	June 1, 1875	.....	.....	7	926
8, 555	Same..... Thermometer..... (Design) ..	June 22, 1875	.....	.....	7	1057
8, 555	Same..... Inkstand-support..... (Case F. Design) ..	Aug. 3, 1875	.....	.....	8	194
8, 556	Same..... same..... (Case G. Design) ..	Aug. 3, 1875	.....	.....	8	194
	Kitson Machine Company. (See Kitson, Richard, assignor.)					
170, 675	Kitson, Richard, Lowell, Mass., assignor to Kitson Machine Company. Beater for cotton-openers	Dec. 7, 1875	19	6	8	953
160, 204	Kittinger, Levi, and John K. Kurtz, Massillon, Ohio. Stacker attachment for thrashing-machines	Feb. 23, 1875	922	303	7	331
159, 685	Kittoe, Edmund F., Charleston, S. C. Spud for dredging-machines	Feb. 9, 1875	420	140	7	250
161, 687	Kittoe, Edward F., and Fred Brotherhood, Charleston, S. C. Shaft for ore-washers	Apr. 6, 1875	84	30	7	581
164, 378	Kittredge, Anson O., and William H. and William J. Clark, assignors to Kittredge Cornice and Ornament Company, Salem, Ohio. Oil-can	June 15, 1875	521	172	7	1021
166, 703	Same..... Mallet for smoothing sheet-metal	Aug. 17, 1875	509	156	8	288
	Kittredge Cornice and Ornament Company. (See Clark & Kittredge, assignors.)					
	Same..... (See Kittredge & Clark, assignors.)					
171, 230	Kittz, Willard A., Oswego, N. Y. Shingle-planer.....	Dec. 21, 1875	574	189	8	1042
	Kitzmiller, E. A., et al. (See Todd, Westley, assignor)..... (Reissue) ..					
	Kivett, John. (See Parker & Kivett.)					
161, 242	Kivlan, George, Boston, William Kivlan, Cambridge, and George Wood, Boston, Mass. Machine for calendering printed sheets	Mar. 23, 1875	929	303	7	501
	Kivlan, William. (See Kivlan & Wood.)					
159, 185	Klar, Joseph, Shelbyville, Ill. Hog-trap.....	Jan. 26, 1875	816	268	7	158
169, 361	Klar, Joseph, and Hasty S. Dixon, Shelbyville, Ill. Check-row planter.....	Nov. 2, 1875	39	12	8	740
162, 828	Kleckner, John A., assignor to self and Henry F. Sholty, Canton, Ohio. Lightning-rod.	May 4, 1875	83	28	7	758
	Klein, Casper, et al. (See Qvist, Peter M., assignor.)					
171, 141	Klein, John C., Pittsburgh, Pa. Manufacture of grubbing-hoes.....	Dec. 14, 1875	463	152	8	1019
171, 142	Same..... Manufacture of lap for shovels	Dec. 14, 1875	464	152	8	1019
171, 143	Same..... Manufacture of picks, &c	Dec. 14, 1875	464	152	8	1019
171, 144	Klein, Martin, Saint Peter, Minn. Harness-collar pad	Dec. 14, 1875	465	152	8	1019
167, 543	Kleinert, Isaac B., New York, N. Y. Head-muff.....	Sept. 7, 1875	145	44	8	426

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
	Klemm, Carl. (See Klemm, Heinrich and Carl.)					
	Klemm, Frederick. (See Goetz, Bernard, assignor.)					
160, 440	Klemm, Heinrich and Carl, Pfullingen, Württemberg. Manufacture of leather.	Mar. 2, 1875	163		7	372
166, 112	Kley, John A., and Van H. Higgins, Chicago, Ill., assignors to Babcock Manufacturing Company. Hook and ladder truck.	July 27, 1875	972	{ 299 300	8	179
6, 490	Kline, Jacob, Camp Hill, Pa., assignor, by mesne assignments, to self, Wilson Bear, J. A. Moore, and M. N. Grove. Harvester-crank and pin. (Reissue).	June 15, 1875	754	246	7	1052
161, 618	Kline, Jacob, assignor of three-fourths interest to J. Addison Moore and Wilson Bear, Camp Hill, and Michael M. Grove, Harrisburgh, Pa. Carriage-axle.	Apr. 6, 1875	25	11	7	572
	Kline, John A. (See Williams, Cook & Kline.)					
167, 908	Kline, John B., Cincinnati, Ohio. Sofa-bedstead.	Sept. 21, 1875	497	157	8	492
	Kline, John J. (See Stevenson, John A., assignor)					
171, 289	Klingler, Joseph W., Daniel Bolender, and Samuel E. Stem, Beavertown, Pa. Car-coupling.	Dec. 21, 1875	629	206	8	1049
168, 505	Klinkerfues, William, Göttingen, Prussia. Psychrometer.	Oct. 5, 1875	166	54	8	588
166, 785	Klinkermann, Herman, Dillsborough, Ind. Counterbalancing millstones.	Aug. 17, 1875	585	180	8	299
	Klinkmann, August. (See Heydemann & Klinkmann.)					
159, 937	Klobassa, Victor, Washington, D. C. Game apparatus.	Feb. 16, 1875	670	222	7	289
162, 664	Same. Game-board.	Apr. 27, 1875	1012	324	7	728
164, 379	Kloman, Andrew, Pittsburgh, Pa. Manufacture of metallic beams and girders.	June 15, 1875	525	173	7	1021
171, 389	Klotz, Daniel H., assignor of one-half interest to Benjamin F. Du Bois, Philadelphia, Pa. Stove-pipe joint.	Dec. 21, 1875	719	237	8	1061
	Klotz, Phao S. (See Coffin & Klotz.)					
169, 273	Klotz, Philip, assignor to Bentley C. Bibb, Baltimore, Md. Stove and furnace.	Oct. 26, 1875	925	300	8	718
170, 379	Klunzinger, Paul, Bellinzona, Switzerland. Car-brake.	Nov. 23, 1875	1042	327	8	695
159, 102	Knab, Oscar, Newark, N. J. Process of coloring tobacco.	Jan. 26, 1875	740		7	148
161, 243	Knapp, A. Haydn, Brighton, Mass. Curtain-fixture.	Mar. 23, 1875	931	303	7	501
165, 934	Knapp, A. Haydn, Boston, Mass. Mode of forming sheet-metal rollers.	July 27, 1875	805	247	8	155
165, 935	Knapp, A. Haydn, Newton, Mass. Sheet-metal-shade roller.	July 27, 1875	806	247	8	155
167, 613	Knapp, Albert M., Providence, R. I. Rubber nipple.	Sept. 14, 1875	221	69	8	444
161, 969	Knapp, Charles, New York, N. Y. Die for forming bezels on metallic backs for jewelry.	Apr. 13, 1875	343	115	7	628
162, 292	Knapp, Elijah, San Francisco, Cal. Grain-separator.	Apr. 20, 1875	649	212	7	674
161, 045	Knapp, George S., Chicago, Ill. Hose clamp or patch.	Mar. 23, 1875	743	244	7	477
152, 930	Same. Mounting car-doors.	May 4, 1875	178	59	7	770
163, 017	Same. Safety attachment to pocket-books.	May 11, 1875	278	90	7	791
170, 175	Knapp, George S., assignor to Thomas E. Bennett and Frederic H. Lay, Chicago, Ill. Car-starter.	Nov. 23, 1875	864	270	8	170
158, 501	Knapp, Henry F., New York, N. Y. Torpedo-boat.	Jan. 5, 1875	135	45	7	23
160, 441	Same. Means for raising sunken vessels, &c.	Mar. 2, 1875	164	57	7	372
167, 341	Same. Pneumatic car-brake.	Aug. 31, 1875	1132	356	8	392
163, 664	Knapp, Overt B., assignor to self and R. C. Kelly, Brandon, Wis. Feed-mill.	May 25, 1875	905	287	7	896
160, 205	Knapp, Robert L., Halfmoon Bay, Cal. Wagon-brake.	Feb. 23, 1875	923	304	7	531
167, 402	Same. Side-hill plow.	Sept. 7, 1875	21	6	8	409
158, 420	Knapp, William B., assignor to self and Frank Bumann, Tecumseh, Mich. Cherry-pitter.	Jan. 5, 1875	60	21	7	17
161, 341	Knaust, William, Vienna, Austria. Self-closing cock.	Mar. 30, 1875	1042	339	7	523
164, 843	Same. Steam fire-engine.	June 22, 1875	953	309	7	1086
	Kneal, William H. (See Newman & Kneal.)					
166, 786	Knecht, Adam, Ilchester, and Michael Knecht, Grantsville, Md. Pump.	Aug. 17, 1875	586	181	8	299
	Knecht, Michael. (See Knecht, Adam and Michael.)					
163, 210	Knecht, Victor, Cincinnati, Ohio. Hand jelly-press.	May 11, 1875	457	148	7	814
158, 380	Kneeland, J. N., Burr Oak, Mich. Heating-drum.	Jan. 5, 1875	25	9	7	12
164, 380	Kneeland, Sylvanus R., Boston, Mass. Lamp-shade.	June 15, 1875	526	173	7	1021
	Kuell, William J., et al. (See Gill & Beisel, assignors.)					
165, 420	Knelles, Charles H., assignor to New York Manufacturing Leather Company, New York, N. Y. Manufacture of imitation fabrics.	July 13, 1875	288	85	8	55
	Knepper, John A. (See McQuillin & Knepper.)					
169, 449	Knepper, John A., Delta, Ohio. Gate.	Nov. 2, 1875	115	37	8	751
	Knickerbocker Ice Company. (See Hunt, Augustus, assignor.)					
163, 665	Kniffin, Dewitt W., Marlborough, N. Y. Berry-cup.	May 25, 1875	906	288	7	896
167, 673	Kniffin, George W., New York, N. Y. Clothes-clamp.	Sept. 14, 1875	270	85	8	457
166, 114	Knight, Daniel R., and John M. Ripple, Waynesborough, Pa. Carriage-curtain fixture.	July 27, 1875	974	300	8	179
169, 555	Same. same.	Nov. 2, 1875	215	71	8	764
8, 377	Knight, Israel Y., Philadelphia, Pa. Medal. (Design).	June 8, 1875			7	968
167, 674	Knight, James, Denver, Colo. Key-fastener.	Sept. 14, 1875	271	85	8	451
170, 091	Knight, James, assignor of one-half interest to George Miller, Philadelphia, Pa. Vehicle device for checking horses.	Nov. 16, 1875	762	241	8	849
158, 421	Knight, John A., Auburn, Me. Combined drawers and folding desk.	Jan. 5, 1875	60	21	7	17
158, 422	Same. Looking-glass attachment for bureaus, &c.	Jan. 5, 1875	61	21	7	17
158, 423	Same. Drawers.	Jan. 5, 1875	61	21, 22	7	18
163, 082	Knight, Luther, Arlington, Vt. Circulating steam-boiler.	May 11, 1875	339	110	7	799
158, 591	Knight, Samuel N., Sutter Creek, Cal. Water-wheel.	Jan. 12, 1875	229	77	7	56
159, 584	Knight, Walter, San Andreas, Cal. Velocipede.	Feb. 9, 1875	333	109	7	238
163, 081	Knight, William A., Worcester, Mass. Exercising apparatus.	May 11, 1875	338	110	7	799
169, 711	Knights, John H., assignor to Caleb C. Walworth, Boston, Mass. Aero-gas burner.	Nov. 9, 1875	392	123	8	794
159, 186	Knoblanch, Charles, Munich, Bavaria. Furnace-grate.	Jan. 26, 1875	817	268	7	158
163, 083	Knock, Edwin, Vermont, Ill. Coupling for thrashing-machines.	May 11, 1875	340	110	7	799
	Knodle, Joseph U. (See Johnson, Edwin W., assignor.)					
	Knoebel, Fred. C. (See Knoebel, Jacob C. and Fred. C.)					
165, 240	Knoebel, Jacob C. and Fred. C., Belleville, Ill. Middlings-purifier.	July 6, 1875	91	27	8	21
165, 005	Knorp, Albert E., San Francisco, Cal. Soda bottle carrier.	June 29, 1875	1117	360	7	1115
167, 544	Knorr, Jacob F., Orange, N. J. Harness-saddle.	Sept. 7, 1875	145	45	8	426
164, 094	Knott, Mark, Willimantic, Conn. Cloth-measuring machine.	June 8, 1875	249	85	7	976
164, 095	Knowl s, Daniel C., Lynn, Mass. Kneading-roller.	June 8, 1875	250	86	7	976
	Knowles, J. Henry. (See Knowles, John, assignor.)					
162, 391	Knowles, John, assignor to J. Henry Knowles, Graniteville, Mass. Window-screen.	Apr. 20, 1875	746	243	7	686
158, 381	Knowles, Lucius J., Worcester, Mass. Sirup-pump.	Jan. 5, 1875	25	9	7	12
159, 686	Same. Yarn-beam for looms.	Feb. 9, 1875	421	140	7	251
160, 206	Same. Air-chamber for steam-pumps.	Feb. 23, 1875	924	304	7	331
160, 207	Same. Force-pump.	Feb. 23, 1875	925	304	7	331
162, 176	Same. Loom-pattern chain.	Apr. 20, 1875	544	179	7	661
168, 095	Same. Device for securing the bars in heddle-frames.	Sept. 28, 1875	691	218	8	527
171, 390	Same. Valve for steam-pumping engines.	Dec. 21, 1875	720	237	8	1061
161, 795	Knowles, William W., Bastrop, Tex. Cotton-press.	Apr. 6, 1875	175	60	7	594
164, 187	Knowles, Wilson W., assignor of one-half interest to James A. Grannis, Mount Carmel, Conn. Manufacture of carriage-axle boxes.	June 8, 1875	329	112	7	986

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Knowlton, Albion. (<i>See</i> Watson & Knowlton.)					
167, 261	Knowlton, Henry, Otter Lake, Mich. Log-turner	Aug. 31, 1875	1064	331	8	382
162, 392	Knowlton, John L., Sharon Hill, Pa. Saw-sharpening machine.....	Apr. 20, 1875	747	{ 243 244 }	7	686
159, 419	Knowlton, Nathaniel W., Nevada City, Cal. Water-meter.....	Feb. 2, 1875	159	54	7	206
	Knox, Israel W. (<i>See</i> Palmer & Knox.)					
161, 127	Knox, John, Auburn, N. Y. Match-box.....	Mar. 23, 1875	824	270	7	487
160, 776	Knox, Melvin W., Sheridan, N. Y. Potato-digger	Mar. 16, 1875	504	164	7	435
166, 207	Knox, Orville M., Knoxborough, N. Y. Compound for destroying hop-grubs, &c.....	Aug. 3, 1875	22	.....	8	202
160, 442	Knudson, Adolphus A., Brooklyn, N. Y. Printing-telegraph.....	Mar. 2, 1875	166	57	7	372
166, 115	Knudson, Lewis, San Francisco, Cal. Curtain-cord fastener.....	July 27, 1875	975	300	8	179
161, 796	Knudson, Peter, Weyauwega, Wis. Beer-cask	Apr. 16, 1875	176	60	7	594
165, 449	Knuteson, Knute G., Clinton, Wis. Automatic gate.....	July 13, 1875	320	94	8	59
159, 333	Koch, Frederick, and Robert Brass, Williamsburgh, N. Y. Elongated spools for hold- ing braid, thread, &c	Feb. 2, 1875	88	30	7	196
	Koch, Johann G. (<i>See</i> Felbinger & Koch.)					
	Koch, John. (<i>See</i> Hien & Koch.)					
161, 521	Koch, Julius J., Saint Louis, Mo. Lubricating compound	Mar. 30, 1875	1217	.....	7	546
	Koch, Paul. (<i>See</i> Pfeiffer, Jacob, assignor.)					
	Koch, Richard. (<i>See</i> Herzog & Koch.)					
167, 614	Koch, Richard, and Hermann Müller, Dortmund, Prussia. Universal turning-lathe....	Sept. 14, 1875	221	69	8	444
164, 686	Koeberle, John M., Philadelphia, Pa. Ratchet-drill.....	June 22, 1875	808	264	7	1068
164, 844	Koehl, William, Huntsville, Tex. Cotton-gin.....	June 22, 1875	954	309	7	1086
167, 675	Koehler, Henry G., Cleveland, Ohio. Hose and pipe coupling.....	Sept. 14, 1875	272	85	8	451
158, 592	Koehler, John G., Philadelphia, Pa. Butter-tub.....	Jan. 12, 1875	230	77	7	56
	Koeppner, Hermann. (<i>See</i> Wannick & Koeppner.)					
	Kohlberg, Jacob, et al. (<i>See</i> Broas, Richard M. C., assignor.)					
	Kohler, Ernst H. (<i>See</i> Kiehl & Kohler.)					
159, 420	Kohler, Friedrich, assignor of one-half interest to Henry Zimmerman, Allegheny, Pa. Pipe and nut-wrench.....	Feb. 2, 1875	160	54	7	206
	Kohler, Jacob P. (<i>See</i> Metzger & Kohler.)					
	Kohlmann, Charles. (<i>See</i> Blank, Bart M. J., assignor.)					
	Kokosing Oil Company. (<i>See</i> Neff & Fales, assignors.)					
159, 421	Komp, Albert, New York, N. Y. Clasp for scarf-slides.....	Feb. 2, 1875	161	54	7	207
170, 380	Same..... Ornamental fabric for skirts and other articles.....	Nov. 23, 1875	1043	328	8	895
167, 178	Konz, Sebastian, assignor of one-half interest to Albert H. Stein, Louisville, Ky. Fire-escape	Aug. 31, 1875	996	310	8	372
167, 342	Konz, Sebastian, Louisville, Ky. Fireman's extension-ladder	Aug. 31, 1875	1134	{ 356 357 }	8	392
	Koop, A. F., et al. (<i>See</i> Shisser, Benjamin, assignor.)..... (Reissue.)					
	Kopp, Charles. (<i>See</i> Niedermair, George, assignor.)					
160, 105	Koppes, William M., Seville, Ohio. Grain-separator	Feb. 23, 1875	839	276	7	320
161, 797	Korff, John K., Georgetown, D. C. Combined water-cooler and refrigerator.....	Apr. 6, 1875	177	60	7	594
159, 187	Körting, Ernst, Hanover, Germany. Car-ventilator.....	Jan. 26, 1875	818	269	7	158
160, 443	Same..... Steam-jet gas-exhauster	Mar. 2, 1875	166	57	7	372
168, 029	Körting, Ernst, Manchester, England. Grain-elevator	Sept. 21, 1875	600	191	8	508
166, 877	Kosloff, Stephane A., Paris, France. Electric light	Aug. 17, 1875	673	209	8	311
	Koster, John. (<i>See</i> Schlich & Koster.)					
168, 753	Kotzum, Wenzel L., assignor of one-half interest to Henry E. Scotchmer, Chicago, Ill. Hemmer attachment for sewing-machines.....	Oct. 11, 1875	420	137	8	632
163, 666	Kraft, John, Newark, N. J. Apparatus for shaping pantaloons.....	May 25, 1875	906	288	7	896
168, 839	Kramm, Ephraim, New York, N. Y. Dust-pan.....	Oct. 49, 1875	507	166	8	652
162, 829	Kranich, Hellmuth, and Jacques Bach, New York, N. Y. Piano-forte agraffe.....	May 4, 1875	84	28	7	758
162, 078	Kranz, Friedrich, Sandusky, Ohio. Beer-cooler	Apr. 13, 1875	434	144	7	640
	Kratz, Otto, et al. (<i>See</i> Robert, Julius, assignor.)					
164, 744	Krausch, Theodore, New York, N. Y. Refrigerator-building	June 22, 1875	861	280	7	1075
	Krause, Frederick W. (<i>See</i> Reupke, Henry, assignor.)					
160, 601	Krauss, Stephan, Clifton, N. Y. Ice-former.....	Mar. 9, 1875	322	109	7	404
165, 335	Kreider, Samuel H., Philadelphia, Pa. Heating-stove.....	July 6, 1875	174	53	8	33
163, 211	Krein, Franz, and Henry Franck, Saint Louis, Mo. Tuyere	May 11, 1875	457	148	7	814
	Kreitz, Theodore W. (<i>See</i> Rosenbusch, Andrew, assignor.)					
161, 342	Kreitzer, William, Mendota, Ill. Window-sash	Mar. 30, 1875	1042	339	7	523
164, 461	Krelwitz, Edmund F., assignor to self and Joseph Mitchell, Humboldt, Mich. Clothes-pin	June 15, 1875	604	195	7	1031
167, 343	Krepps, James W., New York, N. Y. Trunk.....	Aug. 31, 1875	1135	357	8	392
160, 917	Kreter, Rudolph, New York, N. Y. Child's carriage	Mar. 16, 1875	619	{ 202 203 }	7	451
	Krick, George, et al. (<i>See</i> Piehl, John F., assignor.)					
8, 854	Krickl, Moritz, New York, N. Y. Head of stair-carpet fasteners ... (Case A. Design)...	Dec. 21, 1875	.....	.....	8	1034
165, 492	Kriete, Heinrich, Newport, Ky. Folding bedstead	July 13, 1875	360	106	8	65
162, 293	Kring, Frederick, Johnstown, Pa. Water-wheel	Apr. 20, 1875	650	212	7	674
170, 744	Kritch, Jacob, Cleveland, Ohio. Machine for forming collars on carriage-axles.....	Dec. 7, 1875	82	26, 27	8	961
168, 905	Kroeger, Casper and Werner, Milwaukee, Wis. Cracker show-case.....	Oct. 19, 1875	572	188	8	661
	Kroeger, Werner. (<i>See</i> Kroeger, Casper & Werner.)					
	Kroeschell, Herman. (<i>See</i> Thielepape & Kroeschell.)					
166, 281	Krog, Henry, sr., Washington, Mo. Plow	Aug. 3, 1875	90	27	8	212
163, 084	Krom, Hiram, Dartford, Wis. Automatic gate.....	May 11, 1875	340	111	7	799
158, 800	Krom, Stephen R., New York, N. Y. Ore-crushing machine	Jan. 19, 1875	434	145	7	100
169, 009	Krouse, John G., Onslow, Iowa. Hay raker and loader	Oct. 19, 1875	662	217	8	674
162, 830	Krouse, Samuel R., San Francisco, Cal. Overalls	May 4, 1875	85	28	7	758
168, 647	Krueger, Ernst, New York, N. Y. Child's carriage	Oct. 11, 1875	328	107	8	619
166, 533	Krüger, Heinrich, jr., New York, N. Y. Street-car coupling.....	Aug. 10, 1875	340	104	8	255
168, 401	Same..... Window-scaffold.....	Oct. 5, 1875	74	26	8	575
163, 085	Krumsick, Henry, Nashville, Ill. Press for cider, &c	May 11, 1875	341	111	7	799
170, 275	Same..... Cider mill and press	Nov. 23, 1875	952	298	8	883
	Kruse, Fredrick. (<i>See</i> Greenleaf & Kruse.)					
170, 745	Kruse, Henry, assignor to Ferdinand Schumacher, Akron, Ohio. Oatmeal machine.....	Dec. 7, 1875	84	27	8	961
166, 991	Kruse, Lauritz T., assignor of one-fourth interest to Charles Wegener, New York, N. Y. Hose-bridge.....	Aug. 24, 1875	799	248	8	337
166, 704	Krutzsch, William, assignor to George W. Hoglen and Charles E. Pease, Dayton, Ohio. Milling-machine.....	Aug. 17, 1875	510	156	8	288
166, 705	Same..... Gear-cutting attachment.....	Aug. 17, 1875	512	157	8	288
166, 787	Same..... Tool-holding attachment for metal-lathes	Aug. 17, 1875	587	181	8	299
168, 096	Kuehn, William, Cincinnati, Ohio. Manufacture of oil pictures for transferring.....	Sept. 28, 1875	691	218	8	527
166, 280	Kuene, F. Wilhelm, New York, N. Y. Bung for barrels and casks	Aug. 3, 1875	90	27	8	212
180, 272	Kueppers, Otto, Philadelphia, Pa. Neck-tie	Feb. 2, 1875	28	9	7	188
159, 422	Same..... Neck-tie shield	Feb. 2, 1875	162	55	7	207

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169, 109	Kuessner, Edward, and Theodore Breuer, Cincinnati, Ohio. Oil-can	Oct. 26, 1875	782	254	8	697
160, 777	Kuh, Sol, Jefferson, Iowa. Straw-twisting machine	Mar. 16, 1875	505	164	7	435
160, 778	Same..... Clamp	Mar. 17, 1875	505	164	7	436
159, 423	Kuhlmann, Henry, Hamburg, Germany. Pegging-machine.....	Feb. 2, 1875	163	55, 56	7	207
158, 717	Kuhn, Franz A. (See Nax & Kuhn)	(Design.)				
160, 829	Kuhn, George, Saint Louis, Mo. Dredger	Jan. 12, 1875	339	116	7	72
161, 688	Kuhns, Benjamin. (See Regan, Barnard, assignor).....	(Reissue.)				
163, 212	Kuhns, Benjamin, Dayton, Ohio. Grain-drill	Mar. 16, 1875	550	179	7	442
159, 334	Same..... Feed-wheel for grain-drills	Apr. 6, 1875	85	30	7	581
162, 831	Kullrich, Franz F., Berlin, Prussia. Album	May 11, 1875	458	148	7	814
161, 689	Kumpf, Adam, Buffalo, N. Y. Machine for crushing bones.....	Feb. 2, 1875	88	30	7	196
154, 502	Kunkle, Erastus B., assignor to self and E. Bostick, Fort Wayne, Ind. Lock-up safety-valve	May 4, 1875	86	29	7	758
168, 163	Kunzendorf, Emil, Newark, N. J. Fire-proof roofing composition	Apr. 6, 1875	86	30	7	581
163, 213	Kurru, August, Belleville, Ill. Gag for animals	Jan. 5, 1875	136	45	7	28
163, 214	Kursheedt, Frederic A. (See King, George, assignor).....	(Reissue.)				
171, 573	Kurth, Charles, Chattanooga, Tenn. Oiler for crank-wrists.....	Sept. 28, 1875	759	240	8	537
160, 779	Kurth, Hermann, Milwaukee, Wis. Grain-separator	May 11, 1875	459	148	7	814
159, 585	Same..... same	May 11, 1875	459	149	7	815
163, 385	Kurtz, Charles H., South Dansville, N. Y. Rotary engine.....	Dec. 28, 1875	904	296	8	1095
164, 188	Kurtz, John K. (See Kittinger & Kurtz.)					
162, 177	Kurtzman, Martin, Shelby, Ohio. Car-coupling	Mar. 16, 1875	506	164	7	436
159, 334	Kurz, Carl, New York, N. Y. Carriage-curtain fastener	Feb. 9, 1875	333	110	7	238
162, 178	Kutz, John D., Sunbury, Pa. Gas apparatus	May 18, 1875	638	204	7	854
162, 177	Kyle, George W., Milo, Ohio. Car-coupling	June 8, 1875	329	112	7	986
159, 938	Laauwe, Cornelius, and Richard J. Wyncoop, Paterson, N. J. Car-brake	Apr. 20, 1875	545	179	7	661
166, 878	La Bay, Ephraim A., Philadelphia, Pa. Bird-house	Feb. 16, 1875	671	222	7	259
161, 128	Labbe, Marie T., Paris, France. Dental cement	Aug. 17, 1875	675		8	312
169, 178	La Blanc, John, and Xavier St. Pierre, Ophir City, Utah. Envelope-opener	Mar. 23, 1875	825	270	7	487
170, 276	Same..... Key-hole guard	Oct. 26, 1875	840	274	8	707
171, 519	Same..... Envelope-opener	Nov. 23, 1875	953	298	8	883
171, 520	Labounty, Leonard J., assignor to William E. Whitehead and Abel T. Atherton, Lowell, Mass. Warp-beam apron for looms.....	Dec. 28, 1875	836	280	8	1088
166, 922	Same..... Loom-picker fastening	Dec. 28, 1875	857	280	8	1088
166, 014	Lachicotte & Sons, P. R. (See Lachicotte, Philip R., assignor.)					
165, 592	Lachicotte, Philip R., assignor to P. R. Lachicotte & Sons, Georgetown Post-Office, S. C. Scouring and polishing rice	Aug. 24, 1875	800		8	337
158, 801	Lachler, John, Erie, Pa. Hasp-lock	July 27, 1875	878	271	8	165
170, 092	Lackman, William, New York, N. Y. Wagon-brake	July 13, 1875	450	136	8	79
171, 231	Lacmann, Jacob, Philadelphia, Pa. Plate for guiding a hand-knife in cutting cloth	Jan. 19, 1875	435	145	7	100
164, 845	Lacy, Georg E., Suspension Bridge, N. Y. Car-coupling	Nov. 16, 1875	763	241	8	819
164, 189	Lacy, Walter, Milwaukee, Wis. Cooking-utensil	Dec. 21, 1875	574	189	8	1042
160, 339	Ladd, Dennis O. B. (See Foster & Ladd.)					
165, 336	Ladd, Fannie E. (See Ladd, Herman W., assignor.)					
165, 337	Ladd, George W., New York, N. Y. Thill-coupling	June 22, 1875	955	309	7	1087
165, 337	Ladd, Hermon W., assignor to Fannie E. Ladd, Chelsea, Mass. Furniture-spring	June 8, 1875	330	112	7	987
168, 648	Ladd, Leonard E., Philadelphia, Pa. Stand for holding umbrellas	Mar. 2, 1875	75	26	7	359
169, 556	Ladd, Story B., Washington, D. C. Device for operating car-brakes.....	July 6, 1875	175	53	8	33
162, 832	Same..... Automatic air-brake	July 6, 1875	175	54	8	33
161, 129	Ladenberger, Frederick D., Glenbeulah, Wis. Harrow-attachment for cultivator-plows.....	Dec. 21, 1875	722	237	8	1061
161, 418	La Dow, Charles, Ballston, N. Y. Wheel hay-rake	Oct. 11, 1875	329	107	8	619
162, 832	Lafferty, Denis H., San Francisco, Cal. Batter-feeder for cake-making	Nov. 2, 1875	216	71	8	764
161, 129	Lafferty, John M., Mansfield Valley, Pa. Extensible coal-chute	May 4, 1875	87	29	7	758
158, 948	Laffrey, Anthony. (See Wheeler & Laffrey.)					
167, 909	Lafin, Matthew, Chicago, Ill. Collecting gold, silver, &c., from their ores.....	Mar. 23, 1875	825	270	7	487
162, 665	La Force, Nelson. (See De Witt, John L., assignor.)					
164, 567	Lagowitz, Jacob. (See Frankel, Alexander, assignor.)					
159, 031	Lahaye, John J., Reading, Pa. Car-coupling	Jan. 19, 1875	574	190	7	118
162, 666	Laib, Christian T., New London, Wis. Bedstead-fastening.....	Sept. 21, 1875	498	158	8	492
164, 567	Laing, James, Dundee, North Britain. Sewing-machine.....	Apr. 27, 1875	1013	324	7	728
159, 031	Laing, Walter W., Holly, Mich. Machine for making eaves-troughs	June 15, 1875	691	224	7	1043
158, 503	Laird, Peter B., assignor to self and Robert W. Laird, Saint Johnsbury, and Hiram Moody, Peacham, Vt. Wheel for dressing stones.....	Jan. 26, 1875	660	223	7	139
159, 424	Laird, Robert W., et al. (See Laird, Peter B., assignor.)					
160, 208	Lajoie, Moses, and Mathias Poncelet, Detroit, Mich. Aerating ale and beer in casks	Jan. 5, 1875	137	45	7	28
162, 666	Lake, Ezra B., Tom's River, N. J. Curtain-fixture	Feb. 2, 1875	165	56	7	237
169, 450	Lake, Ezra B., Tom's River, assignor to Somers T. Champion, Pleasantville, N. J. Ironing-table	Feb. 23, 1875	926	304	7	232
170, 277	Same..... same	Apr. 27, 1875	1016	325	7	728
171, 232	Same..... same	Nov. 2, 1875	115	37	8	751
161, 418	Same..... same	Nov. 23, 1875	953	298	8	883
171, 233	Lake, James K., and Bernard McDevitt, Chicago, Ill. Trace-fastening	Dec. 21, 1875	575	189	8	1042
6, 633	Lakey, John H., Turner Junction, Ill. Device for drilling rails	Mar. 30, 1875	1117	361	7	532
6, 634	Lakey, John H., and James G. Mills, Turner Junction, Ill. Machine for cutting iron	Dec. 21, 1875	576	189	8	1042
159, 687	Lalanc and Grosjean Manufacturing Company. (See Milligan, John C., assignor.)					
161, 886	Lamb, Daniel M., London, Canada. Dental plate	Sept. 7, 1875	201	63	8	434
170, 570	Same..... same	Sept. 7, 1875	202	63	8	434
164, 309	Same..... same	Feb. 9, 1875	422	140	7	251
161, 522	Lamb, George, Boston, Mass. Washing-list	Apr. 13, 1875	273	92	7	619
164, 190	Lamb, John, Jeffersonville, N. Y. Gage for shears	Nov. 30, 1875	1235	389	8	930
170, 569	Lamb, Joseph G., Norwich, Conn. Spinning-ring	June 8, 1875	446	147	7	1002
168, 570	Lamb, Joseph R., Jacksonville, Ill., assignor to Ambrose Marriott, Saint Louis, Mo. Boiler for water-heaters.....	Mar. 30, 1875	1217	391	7	546
160, 529	Lamb, J. Warren, Whitestone, N. Y. Cover, griddle, &c., of stove-tops.....	June 8, 1875	331	113	7	987
167, 076	Lamb, Samuel T. (See Howarth, John, assignor.)					
171, 392	Lamb, Thomas B., Lowell, Mich. Fender-cutter.....	Nov. 30, 1875	1234	389	8	930
170, 278	Lamb, Watson F., Wilbraham, Mass., assignor to self and James B. Atwood. Game-board	Oct. 11, 1875	254	83	8	608
167, 076	Lambart, Richard C., Quincy, assignor to Fred. S. Potter, trustee, New Bedford, Mass. Machine for trimming the heels and soles of boots and shoes.....	Mar. 9, 1875	258	88	7	394
171, 392	Lambert, Claude L., Paris, France. Carbon-photograph.....	Sept. 14, 1875	273	85, 86	8	452
170, 278	Lambert, Peter E., New Orleans, La. Needle-threader	Dec. 21, 1875	722		8	1061
		Nov. 23, 1875	954	299	8	883

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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161, 887	Lambert, Peter L., Boston, Mass. Foot-rest for easy-chairs	Apr. 13, 1875	274	92	7	619
171, 145	Lambie, Robert M., and George F. Sargent, New York, N. Y. Folding table.....	Dec. 14, 1875	466	153	8	1019
459, 763	Lamborn, William L., Steel Works, Pa. Railway-frog.....	Feb. 16, 1875	508	170	7	268
169, 274	Lamborn, William L., assignor to Joseph S. Williams, Riverton, N. J. Railway-switch.....	Oct. 26, 1875	926	{ 300 301 }	{ 8 8 }	{ 718 718 }
8, 702	Lamm, Jennie C., Hopedale, Ill. Wall-pocket	Oct. 5, 1875	.....	.....	8	561
159, 513	La Monte, George, and John H. Hall, New York, N. Y. Process of ornamenting writing-paper	Feb. 9, 1875	280	90	7	230
159, 516	Same..... Figured writing-paper.....	Feb. 9, 1875	281	.....	7	230
171, 036	Same..... Process of ornamenting dry paper.....	Dec. 14, 1875	349	116	8	1004
170, 400	La Mothe, Bernard J., New York, N. Y. Car-platform	Nov. 30, 1875	1154	364	8	919
162, 756	Lamphere, Charles A., Arkport, N. Y. Feathering paddle-wheel.....	May 4, 1875	18	7	7	749
170, 676	Lampkin, H. S., et al. (See Rhodes & Redmond, assignors.)	.....	.....	.....	.....	.....
168, 506	Lampson, Daniel, assignor of one-half interest to Milton Pottinger, Rockford, Ill. Windmill	Dec. 7, 1875	20	6, 7	8	953
168, 506	Lampton, William R., Knightsville, Ind. Rotary churn	Oct. 5, 1875	169	54	8	588
167, 910	Lamson, Edwin, et al. (See Johnson, Henry M., assignor.)	.....	.....	.....	.....	.....
167, 910	Lamson, William F. (See Borgman & Lamson.)	.....	.....	.....	.....	.....
8, 822	Lancaster, Israel, Richmond, Ind. Church-pew	Sept. 21, 1875	498	158	8	492
158, 953	Landenberger, George W., et al. (See Landenberger, Martin, jr., assignor.) (Design.)	.....	.....	.....	.....	.....
158, 953	Landenberger, John, et al. (See Landenberger, Martin, jr., assignor.) (Design.)	.....	.....	.....	.....	.....
158, 953	Landenberger, Martin, jr., assignor to John and George W. Landenberger, Philadelphia, Pa. Stocking-leg	Dec. 7, 1875	.....	.....	8	495
158, 953	Lander, George, assignor to self and Thomas M. Carnegie, Pittsburgh, Pa. Joint for wrought-iron pipes	Jan. 19, 1875	579	192	7	119
165, 593	Landers, Frary & Clark. (See Frary, James D., assignor.) (Design.)	.....	.....	.....	.....	.....
170, 861	Same..... (See Girard, John, assignor.) (Design.)	.....	.....	.....	.....	.....
161, 970	Same..... (See Turnbull, Andrew, assignor.)	.....	.....	.....	.....	.....
158, 718	Same..... (See Webb, Rodolphus L., assignor.)	.....	.....	.....	.....	.....
159, 188	Landes, Adolph, New York, N. Y. Neck-tie	July 13, 1875	450	136	8	79
165, 936	Landfear, William R., Brooklyn, N. Y., assignor to self and Nathan E. Campbell, Hartford, Conn. Lathe for turning spools	Dec. 7, 1875	182	62	8	975
159, 189	Landis, Frank F., Lancaster, Pa. Portable steam-engine.....	Apr. 13, 1875	344	116	7	628
170, 381	Landis, Israel L., Lancaster, Pa. Combined ironing-board and step-ladder	Jan. 12, 1875	340	116	7	72
170, 093	Same..... Farm-fence.....	Jan. 26, 1875	818	269	7	158
160, 602	Same..... Buckle for harness	July 27, 1875	807	247	8	155
163, 932	Landis, Jacob F., Harrisburgh, Pa. Cheese-mill.....	Jan. 26, 1875	819	269	7	159
170, 631	Landis, Roland R., Chicago, Ill. Playing-card	Nov. 23, 1875	1044	328	8	895
165, 739	Landon, David G. (See Dibble, Andrew J., assignor.)	.....	.....	.....	.....	.....
165, 104	Landon, Reuben A., Geddes, assignor of half interest to Richard A. Davis, Syracuse, N. Y. Measuring-funnel.....	Nov. 16, 1875	764	241	8	850
160, 602	Landphere, Perry F., assignor to self and Deloss Jones, Morris Post-Office, Ill. Cultivator	Mar. 9, 1875	323	109	7	404
163, 932	Landrien, Gustave, Brussels, Belgium. Automatic music-recorder.....	June 1, 1875	78	26, 27	7	941
170, 631	Landrum, John E., Hebron, Ohio. Ditching-machine.....	Nov. 30, 1875	1299	410	8	938
165, 739	Landt, Tilson, Iliou, N. Y. Rotary churn	July 20, 1875	597	183	8	115
165, 104	Lane, Alfred, and John H. Cullom, Charlotte, Tenn. Tobacco-knife.....	June 29, 1875	1206	388	7	1127
158, 949	Lane & Bodley. (See Lane & Smith, assignors.)	.....	.....	.....	.....	.....
6, 320	Same..... (See Pearce, Henry, assignor.)	.....	.....	.....	.....	.....
6, 405	Same..... (See Smith & Myers, assignors.)	.....	.....	.....	.....	.....
162, 240	Lane Brothers. (See Lane, William J., assignor.)	.....	.....	.....	.....	.....
162, 240	Lane, Davis M., Philadelphia, Pa. Vehicle side spring.....	Jan. 19, 1875	575	190	7	118
162, 240	Lane, John, Chicago, Ill., assignor, by mesne assignments, to Hapgood & Co., Saint Louis, Mo. Plow	Mar. 9, 1875	449	149	7	421
162, 240	Lane, John, jr., Chicago, Ill., assignor to Hapgood & Co. and Furst & Bradley. Plow. (Reissue).....	Apr. 27, 1875	1105	348	7	738
162, 240	Lane, John G. (See Lane, William J., assignor.)	Apr. 20, 1875	604	198	7	668
158, 950	Lane Manufacturing Company. (See Carpenter, Ward B., assignor.)	.....	.....	.....	.....	.....
158, 951	Same..... (See Fairbanks, Chester M., assignor.)	.....	.....	.....	.....	.....
163, 215	Lane, Peter. (See Wise & Lane.)	.....	.....	.....	.....	.....
159, 517	Lane, Peter, Elwood, Ind. Hog-trap	Jan. 19, 1875	576	191	7	118
165, 338	Lane, Philander P., and Samuel R. Smith, assignor to Lane & Bodley, Cincinnati, Ohio. Hydraulic elevator	Jan. 19, 1875	577	191	7	118
165, 330	Lane, Turner H., Holly Springs, Miss. Guide-wheel for car-trucks	May 11, 1875	460	149	7	815
159, 586	Lane, William J., Millbrook, N. Y. Coffee-mill.....	Feb. 9, 1875	281	91	7	230
162, 241	Lane, William J., assignor to Lane Brothers, Millbrook, N. Y. Gearing for driving sewing and other light machines	July 6, 1875	176	54	8	33
162, 241	Lane, William J., assignor of one-half interest to John G. Lane, Millbrook, N. J. Hydraulic motors for driving sewing-machines, &c.	July 6, 1875	178	54	8	33
169, 999	Lane, Zenas M., Rockland, Mass. Awning-hook	Feb. 9, 1875	334	110	7	238
171, 146	Same..... Machine for tapering corks	Apr. 20, 1875	605	198	7	669
158, 504	Laney, William S., Lithopolis, Ohio. Pump	Nov. 16, 1875	673	212	8	838
161, 244	Langdon, George W., Greene, N. Y. Stove-pipe shelf	Dec. 14, 1875	468	153	8	1020
159, 425	Langdon, Leander W., Northampton, Mass. Sewing-machine	Jan. 21, 1875	.....	.....	7	222
163, 667	Lange, Adam and Carl, Saint Louis, Mo. Show-case	Jan. 5, 1875	137	46	7	28
161, 244	Lange, Carl. (See Lange, Adam and Carl.)	.....	.....	.....	.....	.....
159, 425	Lange, Ferdinand A., Glashutte, Saxony. Watch-plate.....	Mar. 23, 1875	931	304	7	501
163, 667	Langellier, Antoine, Concord, N. H. Car-coupling	Feb. 2, 1875	166	57	7	207
164, 462	Langen, Eugen, Cologne, Germany, assignor to F. O. Matthiessen and Wiecher's Sugar Refining Company, Jersey City, N. J. Manufacture of hard sugar	May 25, 1875	907	.....	7	896
163, 216	Langgesser, Emil, assignor to Elsas, May & Co., Atlanta, Ga. Paper bag	June 15, 1875	604	195	7	1031
161, 971	Langhorne, Maurice, Maysville, Ky. Bill-file	May 11, 1875	461	149	7	815
166, 938	Langley, James M., assignor of one-third interest to James C. Sawyer, Double Bridges, Tenn. Pitman-connection for pumps	Apr. 13, 1875	345	116	7	628
166, 931	Langley, Nicholas, Sioux City, Mo. Washing-machine.....	July 27, 1875	808	248	8	156
166, 015	Langley, Samuel D. C., Erie, Pa. Toy hoop or trundle.....	Aug. 24, 1875	735	227	8	329
166, 390	Langstrath, Thomas, Germantown, Pa. Hot-air furnace	July 27, 1875	879	271	8	165
8, 576	Langwell, William, Attercliffe, England, assignor to Baker Brothers & Co., Baltimore, Md. Machine for finishing bottle-necks	Aug. 3, 1875	192	57	8	226
166, 879	Langworthy, John F., New York, N. Y. Fan..... (Design).....	Aug. 24, 1875	.....	.....	8	322
166, 879	Lankler, Charles, et al. (See Souter, Joseph, assignor.)	.....	.....	.....	.....	.....
166, 879	Same..... (See Waggoner, Samuel T., assignor.)	.....	.....	.....	.....	.....
166, 879	Lannan, William, Union Bridge, Md. Car-coupling.....	Aug. 17, 1875	676	209	8	312

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Lannay, Louis F. (<i>See Parks & Lannay.</i>)					
164, 463	Lanphere, William M., Waterloo, Iowa. Shutter-worker.	June 15, 1875	605	196	7	1031
164, 464	Same.....Blind slat adjuster.	June 15, 1875	605	196	7	1031
162, 178	Lansdell, Henry S., and John S. Leng, Brooklyn, N. Y. Valve.	Apr. 20, 1875	546	179	7	661
162, 833	Same.....Pipe	May 4, 1875	83	29	7	758
161, 130	Lanston, Tolbert, Washington, D. C. Postal weigh-scales	Mar. 23, 1875	826	270	7	487
168, 030	Lanstrom, Reinhold, assignor to United States Soapstone Manufacturing Company, Cincinnati, Ohio. Machine for manufacturing pencils	Sept. 21, 1875	601	192	8	508
170, 677	Lanszweert, Louis, assignor of one-third interest to Bär Adler, San Francisco, Cal. Gas-mixing machine	Dec. 7, 1875	22	7	8	953
158, 952	Lanteigne, Urbain A., Paris, France. Machine for embossing wood	Jan. 19, 1875	578	191	7	118
167, 843	Lantz, Joseph R., and Thomas L. Mitchell, Marrowbone, Ill. Wagon-axle	Sept. 21, 1875	440	140	8	484
169, 179	Lanum, Richard B., Mount Sterling, Ohio. Mold for concrete articles.	Oct. 26, 1875	840	274	8	707
	Lapham, A., <i>et al.</i> (<i>See English, Nathan F., assignor.</i>)					
169, 910	Lapham, Valentine, Marion, Ohio. Under-braider for sewing-machines.	Nov. 16, 1875	600	186	8	828
159, 032	Lapp, John, and John M. Sweet, Batavia, N. Y. Scaffold.	Jan. 26, 1875	681	224	7	139
	Larabee, John W. (<i>See King, W. Haskell, assignor.</i>)					
	Lardner, Henry. (<i>See Wheeler, Roscoe B., assignor.</i>)					
169, 712	Laree, Eugene P., assignor of one-half interest to Raymond Cape, Philadelphia, Pa. Elevator for saccharine liquids.	Nov. 9, 1875	393	123	8	794
165, 594	Large, Andrew T., Chicago, Ill. Window-scaffold	July 13, 1875	451	137	8	79
159, 688	Larkin, Albert, Almond, N. Y. Ironing-table	Feb. 9, 1875	423	140 141	7	251
6, 450	Larkin, George G., Exeter, N. H. Thill-coupling (Reissue)	May 25, 1875	1061	335	7	917
	Larkin, James E., <i>et al.</i> (<i>See Varnum, William, assignor.</i>)					
158, 719	Larkin, John B., Pittsburgh, Pa. Grate	Jan. 12, 1875	341	116	7	72
170, 571	Same.....Grate for furnaces	Nov. 30, 1875	1236	390	8	930
168, 507	Larmon, Young W., assignor of one-half interest to James H. Bowden, Russellville, Ky. Combined water-wheel gate	Oct. 5, 1875	170	55	8	588
162, 667	Larrabee, Amos L., and Josiah M. Jocelyn, Little Valley, N. Y. Cheese-making	Apr. 27, 1875	1017	.....	7	728
160, 106	Larrison, John L., Schooley's Mountain, N. J., and Henry Leich, Wurtsborough, N. Y. Combined try-square and bevel	Feb. 23, 1875	839	276	7	320
162, 393	Larru, Julien, New York, N. Y. Pen-holder	Apr. 20, 1875	749	244	7	686
	Larsh, Benjamin T. (<i>See Tuttle & Larsh.</i>)					
161, 245	Larson, Lars P., Yonkers, N. Y. Wheel-vehicle	Mar. 23, 1875	932	304	7	501
165, 740	La Rue, Samuel J., Russell, Mo. Furnace-grate	July 20, 1875	598	184	8	116
158, 847	La Rue, Silas H., Philadelphia, assignor of one-half interest to Charles M. Runk, Jonathan W. Grubb, and Fred. A. R. Baldwin, Allentown, Pa. Base-burning stove	Jan. 19, 1875	477	160	7	106
170, 746	La Rue, Silas H., Frenchtown, N. J. Stove	Dec. 7, 1875	84	27	8	962
166, 993	Lascell, George W., Syracuse, N. Y. Sewing-machine needle	Aug. 24, 1875	800	248	8	338
	Lash, Abram, <i>et al.</i> (<i>See Sinclair, James A., assignor.</i>)					
	Lash, John S. (<i>See French & Lash.</i>)					
161, 523	Lash, Nathan, Montpelier, Ohio. Fruit-gatherer	Mar. 30, 1875	1218	391	7	546
160, 918	Lasher, Morgan E., Champaign, Ill. Burglar-alarm	Mar. 16, 1875	621	203	7	451
161, 524	Lasher, Morgan E., assignor of one-half interest to George F. Beardsley, Champaign, Ill. Excavator	Mar. 30, 1875	1219	392	7	546
171, 290	Lassen, Hans P. C., Chicago, Ill. Apparatus for storing and preserving grain	Dec. 21, 1875	631	206	8	1049
168, 031	Lasserre, Antoine G., Paris, France, assignor to Gratiot Washburne. Coal-agglomerat- ing press	Sept. 21, 1875	603	192 193	8	508
168, 260	Lassig, Moritz, Chicago, Ill. Cover for the upper chords of bridges	Sept. 28, 1875	841	269	8	548
168, 261	Latchaw, David, Barkeyville, Pa. Bee-hive	Sept. 28, 1875	842	269	8	548
168, 097	Latcher, John W., and True J. Smith, Johnstown, N. Y. Fence-post	Sept. 23, 1875	693	218	8	527
169, 451	Latcher, John W., and Moses E. Dunham; said Latcher assignor to said Dunham, Johnstown, N. Y. Gauntlet-glove	Nov. 2, 1875	117	37	8	751
167, 547	Latham, Charles W., Groton, assignor to Leveritt B. Treat, Orange, Conn. Machine for tenoning spokes	Sept. 7, 1875	148	45	8	427
	Latham, Cyrus H., <i>et al.</i> (<i>See Ayres & Chamberlin, assignors.</i>) (Reissue)					
	Same.....(<i>See Dudley, George D., assignor.</i>)					
	Same.....(<i>See Goodwin, Richard J. P., assignor.</i>) (Reissue)					
	Same.....(<i>See Woods, Edward P., assignor.</i>)					
164, 846	Latham, Cyrus H. (<i>See Woods & Sherwood, assignors.</i>) (Reissue)					
	Latham, Obadiah B., Seneca Falls, N. Y. Nut-lock	June 22, 1875	955	310	7	1087
	Lathrop Anti-Frictionate Company. (<i>See Lathrop & Weber, assignors.</i>) (Reissue)					
6, 748	Lathrop, Lebbeus W., <i>et al.</i> (<i>See Weber, Theodore A., assignor.</i>)					
	Lathrop, Lebbeus W., and Theodore A. Weber, New York, N. Y., assignors, by mesne assignments, to Lathrop Anti-Frictionate Company. Anti-friction compound for bearings. (Reissue)	Nov. 16, 1875	830	.....	8	858
165, 340	Lathrop, Lebbeus W., and Theodore A. Weber, New York, N. Y. Anti-friction compound for bearings	July 6, 1875	181	.....	8	34
165, 937	Same.....Composition for journal-bearings	July 27, 1875	807	.....	8	156
170, 000	Same.....Compound for lining for machine-bearings	Nov. 16, 1875	674	212	8	838
170, 747	Same.....Lining for machine-bearings	Dec. 6, 1875	87	28	8	962
161, 525	La Tourette, Peter, Vestal, N. Y. Churn	Mar. 30, 1875	1220	392	7	546
	Latta, Emmitt G., <i>et al.</i> (<i>See Magruder, Thomas J., assignor.</i>)					
164, 096	Latta, Emmitt G., Friendship, assignor of one-fourth interest to Pratt & Letchworth, Buffalo, N. Y. Hame-top	June 8, 1875	250	86	7	976
170, 176	Same.....same	Nov. 23, 1875	865	270	8	170
159, 103	Latta, Samuel L., Ligonier, Ind. Water-heater	Jan. 26, 1875	741	244	7	148
	Lattimer, Henry M. (<i>See Quackenbush, William P., assignor.</i>)					
168, 649	Latus, William, assignor to T. Karutz, Brooklyn, N. Y. Wood-splitter	Oct. 11, 1875	331	107	8	619
161, 131	Laubser, Joseph, and William Woerle, Milwaukee, Wis.; said Woerle assignor to said Laubser. Horse-stopping apparatus	Mar. 23, 1875	827	271	7	487
164, 923	Lauby, Godfred, Broadhead, Wis. Windmill	June 29, 1875	1048	338	7	1106
166, 994	Lauder, James N., Concord, N. H., assignor to self and James M. Foss, Saint Albans, Vt. Locomotive steam-brake cylinder	Aug. 24, 1875	801	248	8	338
169, 452	Lauder, James N., Concord, assignor to self and Nathan P. Stevens, Hopkinton, N. H. Automatic air-valve attachment for steam-cylinders	Nov. 2, 1875	117	37	8	751
	Lauer, Edmund E. (<i>See Eisenhart & Lauer.</i>)					
163, 499	Laughlin, Charles M., and John R. Hughes, Bevier, Mo. Stove-pipe thimble	May 18, 1875	744	236	7	867
	Laughlin, Joseph M. (<i>See Harrington, Daniel J., assignor.</i>)					
164, 402	Laumonier, Celine, New York, N. Y. Combined traveling-bag and chair	Oct. 5, 1875	75	26	8	575
159, 518	Laurent, Jean V., New York, N. Y. Apparatus for beveling glass plates	Feb. 9, 1875	283	91	7	230
	Lauten, Albert F. (<i>See Brodhead, Francis D., assignor.</i>)					
167, 104	Lauterman, Abraham P., Chicago, Ill. Packing for stuffing-boxes	Aug. 24, 1875	903	282	8	352

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160, 209	Lanth, Bernard, Howard, Pa. Polishing iron bars and rods..... (Extension).....	Mar. 30, 1875			7	515
	Lanth, John N., Pittsburgh, Pa. Reworking steel.....	Feb. 23, 1875	927		7	332
	Lavender, James S. (See Brooks & Lavender.)					
165, 450	Lavey, Joseph E. (See Wetmore, Albert S., assignor.)					
	Law, Edward M., assignor of one-half interest to Holland Belfry, Bell Ewart, Canada. Car-coupling.....	July 13, 1875	321	94	8	59
165, 341	Law, James and Samuel, Cleckheaton, England. Machine for rolling wire.....	July 6, 1875	181	55	8	34
168, 262	Law, Lewellyn P., Chicago, Ill. Valve-grinder.....	Sept. 28, 1875	843	269	8	548
	Law, Samuel. (See Law, James and Samuel.)					
169, 645	Lawless, John H., Jersey City, N. J. Adjusting plumbers' fauces.....	Nov. 9, 1875	325	103	8	785
165, 421	Lawlor, John D., Montreal, Canada. Washing-machine.....	July 13, 1875	290	86	8	55
170, 279	Same.....	Nov. 23, 1875	954	299	8	883
171, 521	Lawrence, Charles A., Beverly, Mass. Umbrella-stand.....	Dec. 28, 1875	858	280	8	1088
168, 650	Lawrence, Charles D., and Charles E. Ward, Fairfield, Me. Adjusting feed-rolls for planing-machines.....	Oct. 11, 1875	331	108	8	69
	Lawrence Curry Comb Company. (See Holmes, Charles E. L., assignor.)					
	Same..... (See Lawrence, William E., assignor.) (Reissue.)					
160, 688	Lawrence, George, Williamsburgh, N. Y. Air-register.....	Mar. 9, 1875	397	133	7	414
	Lawrence, James. (See Herrschaft & Lawrence.)					
	Lawrence, John S. (See Burton, William S., assignor.)					
171, 393	Lawrence, Lewis P., Port Morris, N. J. Ironing-table.....	Dec. 21, 1875	723	237	8	1061
	Lawrence, L. Lovell. (See Morgan, Edmond, assignor.)					
159, 939	Lawrence, L. Lovell, and George S. Thomas, assignors to Wayne Agricultural Company, Dublin, Ind. Corn-planter.....	Feb. 16, 1875	672	223	7	289
160, 210	Same..... Cultivator.....	Feb. 23, 1875	928	305	7	332
158, 424	Lawrence, Samuel, New York, N. Y. Self-closing hatchway.....	Jan. 5, 1875	62	22	7	18
161, 690	Lawrence, Theodore C., Ladoga, Ind. Miter-box.....	Apr. 6, 1875	87	30	7	581
161, 798	Same..... Lamp attachment.....	Apr. 6, 1875	178	61	7	594
	Lawrence, William A. (See Whiting & Lawrence.)					
6, 605	Lawrence, William E., New York, N. Y., assignor to Lawrence Curry Comb Company. Curry-comb..... (Reissue.)	Aug. 24, 1875	945	295	8	358
165, 451	Lawrence, William S., assignor of one-half interest to Lebeus C. Chapin, Kalamazoo, Mich. Plow.....	July 13, 1875	322	94	8	59
158, 954	Lawson, James A., Troy, N. Y. Hot-air furnace.....	Jan. 19, 1875	530	{ 192 } { 193 }	7	119
170, 862	Lawson, James F., Butler, Mo. Washing-machine.....	Dec. 7, 1875	183	62	8	975
163, 217	Lawson, Peter B., Cold Spring, N. Y. Expanding-mandrel.....	May 11, 1875	462	150	7	815
164, 568	Lawson, Peter B., assignor to Gouverneur Paulding, Cold Spring, N. Y. Breech-loading ordnance.....	June 15, 1875	692	224	7	1043
161, 691	Lawther, Alfred B., Chicago, Ill. Machine for crushing oleaginous seeds.....	Apr. 6, 1875	88	31	7	581
163, 933	Same..... Machine for moistening oleaginous seeds.....	June 1, 1875	80	27	7	942
168, 164	Same..... Process for treating oleaginous seeds.....	Sept. 28, 1875	759		8	537
	Lawton, Edwin R., et al. (See Peck, Franklin, assignor.)					
165, 105	Lawton, James, and James A. Gibson, Cincinnati, Ohio. Upright boiler for ranges, stoves, &c.....	June 29, 1875	1206	388	7	1127
	Lay, Frederic H., et al. (See Knapp, George S., assignor.)					
	Layman, Aukner. (See Layman, Ephraim, assignor.)					
160, 603	Layman, Ephraim, assignor to Layman & Aukner, Brooklyn, N. Y. Umbrella-handle.....	Mar. 9, 1875	324	109	7	404
	Layton, C. A. (See Williams, Henry M., assignor.)					
161, 799	Lazear, Cornelius G., Chicago, Ill. King-bolt.....	Apr. 6, 1875	178	61	7	595
161, 800	Same..... Carriage-spring.....	Apr. 6, 1875	179	61	7	595
159, 689	Leach, Edwin E., Cedar Rapids, Iowa. Wheel-cultivator.....	Feb. 9, 1875	423	141	7	251
159, 690	Same..... Riding-harrow.....	Feb. 9, 1875	424	142	7	251
158, 593	Leach, Henry B., Boston, Mass. Faucet.....	Jan. 12, 1875	231	77	7	56
170, 001	Leach, Joseph D., Penobscot, Me. Navigator's bearing-indicator.....	Nov. 16, 1875	674	212	8	838
170, 002	Leach, Matthew, assignor to self and John Smith, Youngstown, and John G. Decker, Coitsville, Ohio. Nail-plate feeder.....	Nov. 16, 1875	675	{ 212 } { 213 }	8	888
168, 754	Leach, William, Omaha, Nebr. Gate-fastening.....	Oct. 11, 1875	421	137	8	632
	Leach, William S., et al. (See Harwood, George D., assignor.)					
162, 757	Leading, George W., Lacon, assignor to Frank Sturges & Co., Chicago, Ill. Stove-pipe damper.....	May 4, 1875	19	7	7	749
160, 271	Leahy, Daniel F., Portland, Oreg. Telegraph sounder and recorder.....	Mar. 2, 1875	15	6	7	351
159, 764	Lear, Peter, Medford, Mass. Loom-shuttle.....	Feb. 16, 1875	509	171	7	268
	Learned, Albert C. (See Learned, Stephen D., assignor.)					
166, 016	Learned, Stephen D., Pawtucket, R. I., assignor to Albert C. Learned, Bergen, N. J. Spooling-machine.....	July 27, 1875	880	271	8	166
	Leary, John. (See Ives & Leary.)					
	Leary, Walter I. (See White & Leary.)					
163, 218	Leas, J. Silas, Rock Island, Ill. Reclining-chair.....	May 11, 1875	462	150	7	815
161, 526	Leaverton, Robert T., Holden, Mo. Device for exhibiting shoes.....	Mar. 30, 1875	1221	393	7	546
171, 147	Leavitt, Albert, assignor to Michael H. Simpson, Boston, Mass. Wax-thread sewing-machine.....	Dec. 14, 1875	469	153	8	1020
163, 018	Leavitt, Erasmus D., jr., Cambridge, Mass. Pump.....	May 11, 1875	279	90	7	791
165, 006	Same..... Steam-boiler.....	June 29, 1875	1118	361	7	1115
166, 706	Same..... Steam-engine.....	Aug. 17, 1875	513	157	8	288
	Leavitt, Rufus, et al. (See Chase, Frank, assignor.)					
	Leber, Samuel, et al. (See Anthes, Frederick, assignor.)					
160, 211	Lechner, Frances M., Waynesburgh, Ohio. Washing-machine.....	Feb. 23, 1875	930	305	7	332
	Leck, John. (See Düring & Leck.)					
165, 452	Leckrone, Emanuel K. (See Smith, Israel E., assignor.)					
	Leclanché, George L., Paris, France, assignor to Hilborne L. Roosevelt. Galvanic battery.....	July 13, 1875	322	94	8	59
	Le Comte, Joseph, et al. (See Perkins, George H., assignor.)					
167, 911	Leeraw, Benjamin P., Salem, Mass. Reefing and furling gaff top-sails.....	Sept. 21, 1875	499	158	8	492
162, 394	Lee, Archibald K., Galveston, Tex., assignor of one-third interest to James R. McClintock. Process of reducing asphaltum to a liquid.....	Apr. 20, 1875	750		7	686
	Lee, George W. (See Lee, Luther B. and George W.)					
162, 079	Lee, George W., Homeworth, Ohio. Feed-cutting-machine spike.....	Apr. 13, 1875	435	145	7	640
163, 086	Lee, Harvey T., assignor to J. S. Hodges, Chicago, Ill. Toy.....	May 11, 1875	342	111	7	799
167, 105	Lee, Henry, Mahalasville, Ind. Cotton-stalk puller.....	Aug. 24, 1875	904	282	8	352
166, 955	Lee, Henry M., London, Great Britain. Preserving ferns, plants, &c.....	Aug. 24, 1875	802		8	338
8, 482	Lee, Homer, New York, N. Y. Paper-weight..... (Design).....	July 13, 1875			8	49
8, 804	Same..... Inkstand..... (Design).....	Nov. 23, 1875			8	862
160, 519	Lee, James, Milwaukee, Wis. Breech-loading fire-arm.....	Mar. 16, 1875	621	203	7	451

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162, 481	Lee, James, Milwaukee, Wis. Cartridge-box.....	Apr. 27, 1875	854	{ 274 275 }	7	708
169, 180	Lee, James G. C., New York, N. Y. Lard-cooler.....	Oct. 26, 1875	840	274	8	707
158, 425	Lee, John, Hazelton, Pa. Fire-box attachment to steam-boilers.....	Jan. 5, 1875	63	22	7	18
166, 788	Lee, John, Lyons, Iowa. Hub-boring machine.....	Aug. 17, 1875	588	181	8	299
171, 291	Lee, John, San Francisco, Cal. Spittoon-mat.....	Dec. 21, 1875	631	206	8	1049
163, 668	Lee, Luther B. and George W., Ridgewood, N. Y. Fly-net.....	May 25, 1875	907	288	7	896
168, 632	Lee, Richard, New York, N. Y. Composite roof.....	Sept. 21, 1875	604	194	8	508
159, 191	Lee, Robert, Cincinnati, Ohio. Horseshoe.....	Jan. 26, 1875	821	270	7	179
163, 789	Same..... Mail-bag fastener.....	May 25, 1875	1008	320	7	910
170, 632	Lee, Thomas J., Pender County, N. C. Cultivator.....	Nov. 30, 1875	1301	410	8	938
167, 344	Leeka, David W., Plum Hollow, Iowa. Tug-slide.....	Aug. 31, 1875	1136	357	8	392
160, 355	Leely, Liberty J., Waldron, Ind. Draft-equalizer.....	Mar. 2, 1875	87	32	7	361
158, 505	Leeper, John E., Godfrey, Ill. Construction of railway-cars.....	Jan. 5, 1875	137	46	7	28
159, 587	Lees, David, Birmingham, assignor to self and S. C. Stewart, Tyrone Forges, Pa. At- tachment for injectors.....	Feb. 9, 1875	334	110	7	238
159, 190	Lees, George, Philadelphia, Pa. Device for opening and closing furnace-doors.....	Jan. 26, 1875	819	{ 269 270 }	7	159
8, 278	Lees, Henry C., Philadelphia, Pa. Badge..... (Design).....	Apr. 20, 1875	.....	.....	7	651
168, 906	Lees, Thomas K., Brooklyn, N. Y. Gas-washing machinery.....	Oct. 19, 1875	572	188	8	661
165, 842	Leeson, Henry. (See Kent & Leeson.) Leetch, Elizabeth, Detroit, Mich. Bosom-form.....	July 20, 1875	705	214	8	129
170, 958	Leffel & Co., James. (See Trump, Fuller, assignor.) Lefferts, John R., New York, N. Y. Fire-escape.....	Dec. 14, 1875	287	96, 97	8	996
164, 569	Lefferts, John W., assignor of one-half interest to John H. Baer, Baltimore, Md. Shoe- sole-edge trimmer.....	June 15, 1875	693	225	7	1043
165, 595	Same..... Shoe-sole machine.....	July 13, 1875	452	137	8	79
167, 546	Lefferts, John W., Baltimore, Md. Submerged filter.....	Sept. 7, 1875	147	45	8	427
160, 920	Legg, John B., Rome, Ga. Cotton-seed planter and fertilizer-distributor.....	Mar. 16, 1875	625	204	7	452
	Legge, J. H. (See Wood, Enoch, assignor.) Leggott, Arthur, et al. (See Kimble, Smith W., assignor.) Le Grande, William W. (See Osborne & Le Grande.)					
164, 381	Le Grande, William W., assignor of one-half interest to Thomas D. Osborne, Louisville, Ky. Machine for cutting siding.....	June 15, 1875	527	173	8	1021
166, 208	Lehman & Rigel, et al. (See Mellinger, Christian K., assignor.) Lehman, Daniel A., assignor of one-half interest to Joseph A. Culp, Wakarusa, Ind. Button-hole cutter.....	Aug. 3, 1875	23	8	8	202
	Lehman, George H., et al. (See Shinn, John, assignor.) Lehman, William H. (See Bolton, Mahlon, jr., assignor.)..... (Design.)					
158, 720	Lehmann, Charles, New York, N. Y. Manufacture of soap.....	Jan. 12, 1875	342	.....	7	72
171, 394	Lehmann, Gondchaux. (See Lehmann, Isaac and Gondchaux.) Lehmann, Isaac and Gondchaux, New York, N. Y. Manufacture of glass buttons.....	Dec. 21, 1875	724	238	8	1061
163, 669	Lehmer, Isaac, Greenfield, Ind. Windmill.....	May 25, 1875	908	288	7	897
8, 237	Lehnbeuter, Joseph. (See Wiegel & Lehnbeuter.)..... (Design.) Lehnbeuter, Joseph, assignor to C. Claes & Co., Saint Louis, Mo. Show case and stand.....	Apr. 27, 1875	.....	.....	7	701
8, 288	Same..... same..... (Case A. Design).....	Apr. 27, 1875	.....	.....	7	701
8, 289	Same..... same..... (Case B. Design).....	Apr. 27, 1875	.....	.....	7	701
8, 813	Lehnbeuter, Joseph, and Casper Claes, Saint Louis, Mo. Show-case..... (Case C. Design).....	Nov. 30, 1875	.....	.....	8	909
8, 814	Same..... same..... (Case A. Design).....	Nov. 30, 1875	.....	.....	8	909
8, 815	Same..... same..... (Case B. Design).....	Nov. 30, 1875	.....	.....	8	909
158, 594	Lehnert, Henry G., Philadelphia, Pa. Brass musical instrument.....	Jan. 12, 1875	232	78	7	56
158, 721	Lehr, Ferdinand, New York, N. Y. Oil-can.....	Jan. 12, 1875	343	116	7	72
164, 191	Leiby, Daniel, Riverside, Pa. Means for ventilating and discharging bilge-water from vessels.....	June 8, 1875	331	113	7	967
	Leich, August. (See Stilson, Lyman B., assignor)..... (Reissue.)					
167, 179	Leidy, Charles H., Phoenixville, Pa. Metallic column.....	Aug. 31, 1875	997	310	8	372
165, 596	Leidy, Miletus S., Richmond, Va. Making sheet-metal spouts.....	July 13, 1875	453	{ 137 138 }	8	79
162, 834	Leigh, Alfred, Flemington, N. J. Ventilator for cooking-stoves.....	May 4, 1875	89	29	7	759
	Leigh, Henry. (See Larrison & Leigh.) Leigh, William W., et al. (See Talbotclarke, Charles, assignor.)					
8, 387	Leighton, William, jr., Wheeling, W. Va. Glassware..... (Design).....	June 15, 1875	.....	.....	7	1013
159, 519	Same..... Hollow pressed glassware.....	Feb. 9, 1875	283	91	7	231
162, 294	Leiner, Moritz, New York, N. Y. Filter-rack.....	Apr. 20, 1875	651	212	7	675
166, 789	Same..... Brush.....	Aug. 17, 1875	589	181	8	300
167, 770	Leiss, Julius, Philadelphia, Pa. Carpet beater and cleaner.....	Sept. 14, 1875	363	115	8	464
159, 192	Leiter, Josef, Vienna, Austria. Hypodermic syringe.....	Jan. 26, 1875	821	270	7	159
161, 246	Same..... Galvanic battery.....	Mar. 23, 1875	933	304	7	501
166, 209	Leland, Edwin A., Pittsfield, Mass., assignor to Leonard Richardson, Brooklyn, N. Y. Pan for water-closets.....	Aug. 3, 1875	24	8	8	202
158, 848	Leland, James, Cambridgeport, Mass. Car-wheel.....	Jan. 19, 1875	478	160	7	106
163, 670	Leland, James E. F., Baltimore, Md. Lathe-rest.....	May 25, 1875	909	289	7	897
168, 508	Leland, Windsor, Chicago, Ill. Apparatus for canning meats, &c.....	Oct. 5, 1875	171	55	8	589
160, 830	Lelievre, Auguste A., Chaton, near Paris, France. Compress.....	Mar. 16, 1875	551	.....	7	442
163, 790	Lemman, John, Cincinnati, Ohio. Pivot-chair.....	May 25, 1875	1010	320	7	910
160, 921	Lemman, Martin R., Hamilton, Ohio. Machine for grinding lathe-centers.....	Mar. 16, 1875	626	204	7	452
168, 651	Lemon, Hans, and James C. Metcalfe, jr., Memphis, Tenn. Compound for artificial stone. Lemon, Hans, and James A. Cameron, Memphis, Tenn. Sectional cores to be used in the manufacture of tubing.....	Oct. 11, 1875	332	.....	8	619
163, 386	Lemon, Hans, James A. Cameron, and Hartzell Hainer, Memphis, Tenn. Artificial stone.....	Oct. 11, 1875	421	138	8	632
6, 312	Lemon, John, Cincinnati, Ohio. Machine for molding chair-backs..... (Reissue).....	May 18, 1875	639	.....	7	854
158, 849	Lemon, Uriah E., Franklin, Mich. Bag-holder.....	Mar. 2, 1875	226	77	7	381
161, 888	Le Moyne, Joel H., Boston, Mass. Spindle for spinning-machines.....	Jan. 19, 1875	479	160	7	106
161, 972	Same..... Loom-shuttle.....	Apr. 13, 1875	275	92	7	619
8, 577	Lender, Augustus R., Washington, D. C. Ornamental finger-ring, &c..... (Design).....	Apr. 13, 1875	345	116	7	628
	Leng, John S. (See Lansdell & Leng.) Lenharr, Newton H., White Pigeon, Mich. Combined stove and heat-radiator.....	Aug. 24, 1875	.....	.....	8	322
165, 597	Lennox, William. (See Hawley & Lennox.) Lenoir, Jean J. E., Paris, France. Process for producing amalgamated silvering for mir- rors.....	July 13, 1875	455	138	8	80
166, 790	Lenz, August. Oshkosh, Wis. Flour-mill.....	Aug. 17, 1875	589	.....	8	300
165, 677	Leonard, Benjamin S., Sharon, Mass. Harness-tug.....	July 20, 1875	544	166	8	107
170, 382	Leonard, Benjamin S., Sharon, Mass. Harness-tug.....	Nov. 23, 1875	1045	328	8	895
160, 444	Leonard, Ezra, Akron, Ohio. Grass-cultivator teeth.....	Mar. 2, 1875	167	58	7	372

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169, 181	Leonard, Hiram L., Bangor, Me. Fishing-rod.....	Oct. 26, 1875	841	274	8	707
	Leonard, Job M. (See Ryan, George H., assignor.)					
170, 572	Leonard, Moses H., and John H. Buckley, East Hampton, Mass. Elastic fabric.....	Nov. 30, 1875	1237	390	8	930
	Leonard, William. (See Leonard, William E., assignor.)					
160, 021	Leonard, William E., assignor of one-half interest to William Leonard, Chelsea, Mass. Toy trundle.....	Feb. 23, 1875	769	254	7	309
162, 565	Le Roy, Alphonzo, and William M. Hunting, Little Falls, N. Y. Ticket-clasp.....	Apr. 27, 1875	925	297	7	717
161, 527	Lescale, John M., Paincourtville, La. Apparatus for bleaching cane-juice.....	Mar. 30, 1875	1221	393	7	546
165, 422	Leser, William, Cincinnati, Ohio. Buckle.....	July 13, 1875	291	86	8	55
163, 934	Leseur, William F., and Charles Michel, College Point, N. Y. Variable exhaust.....	June 1, 1875	80	27	7	942
170, 573	Lesh, James, assignor of one-half interest to Robert Denison, Warren, Pa. Bed-clothes holder.....	Nov. 30, 1875	1237	390	9	930
	Lesh, Charles M. (See Lesh, John and Charles M.)					
161, 692	Lesh, John and Charles M., Northumberland, Pa. Tire-tightener.....	Apr. 6, 1875	89	31	7	582
170, 280	Leslie, Ellison, assignor to self and George W. Hunt, Brown's Cross-Roads, Ky. Mechanical movement.....	Nov. 23, 1875	955	299	8	883
160, 530	Lessler, Joseph, Buffalo, N. Y. Measuring-tank.....	Mar. 9, 1875	260	89	7	395
162, 395	Lesson, Philip, Newark, N. J. Spout for sheet-metal pots.....	Apr. 20, 1875	751	244	7	686
	Lester, Franklin, et al. (See Smith, Horatio M., assignor.)					
	Lester, George. (See Jay, James M., assignor.)					
171, 395	Lester, James S., Atlanta, Ga. Fire-place.....	Dec. 21, 1875	725	238	8	1062
161, 343	Lester, John H., Niantic, assignor to self and Elias F. Morgan, New London, Conn. Lock for fire-arms.....	Mar. 30, 1875	1043	340	7	523
	Lester, John H., New York, N. Y. Preserving milk against injury by transportation.....	Nov. 16, 1875	678	.....	8	838
170, 003	Same..... Milk-can.....	Nov. 16, 1875	765	242	8	850
170, 094	Lester, Moses W., et al. (See Smith, Horatio M., assignor.)					
170, 177	Letchworth, George J., Auburn, N. Y. Hame.....	Nov. 23, 1875	866	270	8	170
	Letchworth, Josiah. (See Cooper, Edward A., assignor.)					
	Letchworth, Josiah, et al. (See Cooper, Edward A., assignor.)					
169, 362	Le Tellier, Adolphe, Brussels, Belgium. Water filter and purifier.....	Nov. 2, 1875	41	12, 13	8	740
	Letz, Elizabeth M. (See Letz & Duever, assignors.)					
163, 322	Letz, George F., and Adolphe T. Duever; said Letz assignor to said Duever, and said Duever assignor of five-ninths interest to Elizabeth M. Letz, Chicago, Ill. Treadle.....	May 18, 1875	580	186	7	846
161, 132	Levalley, Christopher W., Saint Paul, Minn. Harvester.....	Mar. 23, 1875	828	271	7	488
169, 275	Same..... same.....	Oct. 26, 1875	927	301	8	718
159, 829	Le Van, William B., Philadelphia, Pa. Hydraulic elevator.....	Feb. 16, 1875	569	190	7	275
169, 816	Leveaux, Edward H., Hammersmith, England. Car-propeller.....	Nov. 9, 1875	499	157	8	807
159, 940	Leverich, Gabriel, Brooklyn, assignor to John B. Sammis, New York, N. Y. Wheel for vehicles.....	Feb. 16, 1875	673	223	7	289
166, 709	Levin, George W., assignor of one-half interest to John S. Swartley, Chicago, Ill. Automatic dental plugger.....	Aug. 17, 1875	517	158	8	289
166, 710	Same..... same.....	Aug. 17, 1875	518	159	8	289
	Levis, O. D., et al. (See Schroeffel, John, jr., assignor.)					
	Levis, Orrin D., et al. (See Ebbert, Jerry, assignor.)					
164, 649	Levy, Harrison, Milesburgh, Pa. Machine for bending horseshoes.....	June 22, 1875	775	254	7	1063
161, 693	Levy, Isaac, Ellaville, Fla. Oiler.....	Apr. 6, 1875	89	31	7	582
159, 104	Levy, Louis E., and David Bachrach, jr., Baltimore, Md. Process of producing photo-relief plates for printing, &c.....	Jan. 26, 1875	742	245	7	148
	Levy, Morris. (See White & Levy.)					
163, 219	Lewin, George W. (See White & Lewin.)					
170, 004	Lewine, Isaac, New York, N. Y. Glove clasp or fastener.....	May 11, 1875	463	130	7	815
163, 935	Lewine, Lyon, Brooklyn, N. Y. Reversible lock-buckle.....	Nov. 16, 1875	678	213	8	838
168, 263	Lewinson, Gustave, Boston, Mass. Package-holder.....	June 1, 1875	81	27	7	942
164, 847	Lewis, Albert C., Brooklyn, N. Y. Manufacture of iron.....	Sept. 28, 1875	844	.....	8	549
	Lewis, Alexander N., Brooklyn, N. Y. Envelope.....	June 22, 1875	957	310	7	1087
	Lewis, Charles W. (See Davis, George W., assignor.)					
8, 342	Lewis, Charles W., assignor to Western Electric Manufacturing Company, Chicago, Ill. Telegraph-key..... (Design)	May 25, 1875	.....	.....	7	879
166, 116	Lewis, Christopher, Columbus, Ohio. Sewer-trap.....	July 27, 1875	975	301	8	179
	Lewis, Cyrus. (See Ferris & Lewis.)					
169, 110	Lewis, David R., Manchester, Iowa. Door-spring.....	Oct. 26, 1875	783	254	8	698
167, 454	Lewis, Edward, Dover, Del. Car-coupling.....	Sept. 7, 1875	66	20	8	415
165, 241	Lewis, Henry J., Green Point, Brooklyn, assignor to E. and H. T. Anthony & Co., New York, N. Y. Stereoscope.....	July 6, 1875	91	27	8	21
168, 403	Lewis, James, Prattsville, N. Y. Machine for rounding leather.....	Oct. 5, 1875	75	26	8	575
170, 748	Lewis, James T. A., East Boston, Mass. Car-coupling.....	Dec. 7, 1875	87	28	8	962
159, 588	Lewis, J. Manvill, North Springfield, Vt. Child's carriage.....	Feb. 9, 1875	335	111	7	239
160, 445	Lewis, John M., New Castle, Ohio. Roofing-tile.....	Mar. 2, 1875	168	58	7	372
170, 482	Lewis, John S., Elkport, Iowa. Heating-drum.....	Nov. 30, 1875	1156	364	8	919
	Lewis, Joseph C. (See Baird & Lewis.)					
	Lewis, J. Vance. (See Rittenhouse & Lewis.)					
167, 262	Lewis, Mark M., assignor to self and Albert C. Aubery, New York, N. Y. Hose-coupling.....	Aug. 31, 1875	1065	332	8	382
164, 687	Lewis, Myer, San Francisco, Cal. Stamp-canceller.....	June 22, 1875	809	264 } 265 }	7	1068
166, 210	Lewis, Newton B., Columbia, Pa. Bush for mill-spindles.....	Aug. 3, 1875	25	8	8	202
6, 249	Lewis, Samuel, Williamsburgh, N. Y., assignor, by mesne assignments, of one-half interest to William H. Cammeyer. Apparatus for removing obstructions under water..... (Reissue)	Jan. 26, 1875	871	284	7	166
	Lewis, Samuel W. (See Stacy & Lewis.)					
169, 011	Lewis, Sylvester, Rochester, N. Y. Sash-holder.....	Oct. 19, 1875	665	218	8	674
170, 005	Same..... Salt apparatus.....	Nov. 16, 1875	679	213	8	838
160, 604	Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Rubber-dam tension-weight.....	Mar. 9, 1875	324	109	7	404
	Lewis, Thomas J. (See Storey & Lewis.)					
171, 292	Lewis, Willard, Walpole, Mass. Machine for making carpet-linings.....	Dec. 21, 1875	632	207	8	1049
	Lewis, William. (See Card, William, assignor.)					
168, 652	Lewis, William H., Brooklyn, N. Y. Stereoscope.....	Oct. 11, 1875	332	108	8	619
170, 749	Lewis, William H., assignor to E. and H. T. Anthony & Co., New York, N. Y. Stereoscope.....	Dec. 7, 1875	88	28	8	962
	Lewis, William J. (See Marland & Lewis.)					
160, 531	Lewis, William J., Pittsburgh, Pa. End-gate rod for vehicles.....	Mar. 9, 1875	261	89	7	395
161, 344	Same..... Bolster-plate for vehicles.....	Mar. 30, 1875	1044	340	7	524
167, 677	Lewis, William J., Denver, Colo. Sash-balance.....	Sept. 14, 1875	275	86	8	452
169, 646	Lewis, William J., Pittsburgh, Pa. Roll for rolling blanks for poll-caps.....	Nov. 9, 1875	326	103	8	785

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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170, 481	Lewis, William J., Pittsburgh, Pa. Manufacture of clevis-pins.	Nov. 30, 1875	1155	364	8	919
159, 436	Lewis, William W., Cincinnati, Ohio. Roll for rolling horseshoe-blank bars.	Feb. 2, 1875	166	57	7	207
168, 336	Same. Horseshoe-machine.	Oct. 5, 1875	17	7	8	567
	Leyde, John F. (See Wilhelm & Leyde, assignors.)					
	Leyde, Salathiel F. (See Wilhelm & Leyde.)					
161, 801	Leydet, Alexandre, Marseilles, France. Boiler-covering.	Apr. 6, 1875	180		7	595
169, 453	L'Hommedieu, Charles, Middletown, N. Y. Clothes-line reel.	Nov. 2, 1875	118	38	8	751
8, 215	Libbey, William L., Boston, Mass. Vase. (Design.)	Mar. 23, 1875			7	466
	Libbey, Arthur A. (See Marshall, William C., assignor.) (Reissue.)					
	Libby, Cyrus. (See Swallow, Alexander, assignor.)					
162, 080	Libe, John C., Philadelphia, Pa. Combined poker and tongs.	Apr. 13, 1875	435	145	7	640
168, 907	Libengood, William C., Bradenville, Pa. Force-pump.	Oct. 19, 1875	573	189	8	662
8, 378	Libert, Joseph C. G., Paris, France, assignor to Roxbury Carpet Company, Boston, Mass. Carpet. (Design.)	June 8, 1875			7	968
161, 694	Libert, Pauline, Leavenworth, Kans. Refrigerating-table.	Apr. 6, 1875	90	31	7	582
	Lichten, Aaron. (See Huber, Stiles, assignor.) (Design.)					
	Lichtenberger, John. (See Fisher & Lichtenberger.)					
159, 335	Lichtenberger, John, Fort Wayne, Ind. Map-exhibitor.	Feb. 2, 1875	90	31	7	196
	Lichtenstein Brothers & Co. (See Lichtenstein, Moses, assignor.)					
166, 534	Lichtenstein, Moses, assignor to Lichtenstein Brothers & Co., New York, N. Y. Cigar-box.	Aug. 10, 1875	341	104	8	255
164, 382	Liddell, Noyes, La Fayette, N. Y. Weather-strip.	June 15, 1875	528	173	7	1021
160, 446	Liddell, William, Buffalo, assignor to self and Howland & Co., Sandy Hill, N. Y. Paper-bag machine.	Mar. 2, 1875	169	58, 59	7	372
161, 133	Liddell, William, assignor to Martin Taylor, Buffalo, N. Y. Envelope-machine.	Mar. 23, 1875	830	271	7	488
	Liddle, Robert Z. (See Perry, Dickey & Liddle.)					
	Lidgerwood Manufacturing Company. (See Beekman, John V., assignor.)					
168, 653	Lidren, Christopher, assignor to self and R. Jackson, La Fayette, Ind. Harvester.	Oct. 11, 1875	333	108	8	619
158, 955	Lieb, Charles, New York, N. Y. Pocket-book.	Jan. 19, 1875	583	194	7	119
169, 111	Lieber, Peter, Indianapolis, Ind. Washing-machine.	Oct. 26, 1875	784	254	8	698
164, 310	Liedke, Charles H., Venice, Ohio. Band for hubs.	June 8, 1875	447	147	7	1002
159, 105	Light, Edward B., Denver, Colo. Whip-tip ferrule.	Jan. 26, 1875	744	245	7	148
	Lighthall, William A. (See Loomis, Kellogg H., assignor.)					
6, 661	Lighthall, William A., Brooklyn, N. Y. Packing for steam-condenser tubes. (Reissue.)	Sept. 28, 1875	892	285	8	555
162, 668	Same. Apparatus for cooling and aerating water.	Apr. 27, 1875	1017	{ 325 } 326	7	723
166, 282	Ligibel, Adolphus, assignor to Winter & Ball, Jersey City, N. J. Casting umbrella-tips, &c.	Aug. 3, 1875	91	28	8	212
8, 607	Lilley, Alfred, assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet. (Design.)	Sept. 7, 1875			8	403
7, 983	Lilley, Charles S., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet. (Design.)	Jan. 5, 1875			7	5
7, 984	Same. same. (Design.)	Jan. 5, 1875			7	5
8, 248	Same. same. (Design.)	Mar. 30, 1875			7	516
167, 548	Lilley, Hugh H. V., assignor to self and Thomas Lilley, Milford, Mass. Funnel for filling lamps.	Sept. 7, 1875	149	46	8	427
	Lilley, Thomas. (See Lilley, Hugh H. V.)					
	Lilliendahl, Gustavus D. (See Wolfe & Lilliendahl.)					
170, 444	Lilliendahl, William A., New York, N. Y. Illuminating advertising device.	Nov. 30, 1875	1119	352	8	914
165, 007	Lillis, Daniel E., Lockport, N. Y. Foot-treadle.	June 29, 1875	1119	361	7	1115
158, 850	Lincoln, George A., East Somerville, Mass. Sash opening and closing mechanism.	Jan. 19, 1875	479	161	7	106
6, 231	Lincoln, James D., et al. (See Pope, Frank L., assignor.) (Reissue.)	Jan. 12, 1875	402	135	7	80
8, 823	Lindemann, Otto, Edgewater, N. Y. Metallic mat for bird-cages. (Reissue.)	Dec. 7, 1875			8	945
	Lindenthal, Carl, New York, N. Y. Trimming. (Design.)					
	Linderman, Robert B., et al. (See Moore, Theodore F., assignor.)					
170, 281	Lindlau, John E., New York, N. Y. Fire-escape.	Nov. 23, 1875	955	299	8	883
169, 112	Lindley, Alfred W., Des Moines, Iowa. Reversible water-wheel.	Oct. 26, 1875	784	254	8	698
159, 273	Lindley, Samuel, Green Bay, Wis. Ice-pick.	Feb. 2, 1875	28	10	7	188
	Lindley, William. (See White, William E., assignor.)					
159, 589	Lindner, Charles, Hockley, Tex. Saw-mill.	Feb. 9, 1875	335	111	7	239
	Lindon, John R. R. (See Espach, Seraphin, assignor.)					
	Lindsay, Charles R. (See Proctor & Lindsay.)					
166, 707	Lindsay, James R., Newark, N. J. Metal-punching machine.	Aug. 17, 1875	514	158	8	289
166, 283	Lindsay, Joseph H., Freehold, Pa. Vehicle-hub.	Aug. 3, 1875	92	28	8	212
170, 282	Lindsey, Charles D., Cincinnati, Ohio. Temporary binder.	Nov. 23, 1875	957	300	8	883
	Lindsey, James. (See Brettle & Lindsey.)					
	Lindsey, Lewis. (See Wiedemann & Lindsey.)					
	Lindsley, Isaac, et al. (See Card, Edward, assignor.)					
167, 106	Line, Cornelia O., Indianapolis, Ind. Culinary vessel.	Aug. 24, 1875	905	282	8	352
163, 500	Lines, John, assignor to Smith & Griggs Manufacturing Company, Waterbury, Conn. Buckle.	May 18, 1875	744	237	7	867
	Ling, Joseph, et al. (See Clime, John C., assignor.)					
170, 863	Lingane, Bart, Decatur, Ill. Automatic fan.	Dec. 7, 1875	184	62	8	975
8, 229	Lingemann, Anton, Port Huron, Mich. Monument. (Case A. Design.)	Mar. 30, 1875			7	516
8, 230	Same. same. (Case B. Design.)	Mar. 30, 1875			7	516
8, 388	Lingg, Joseph W., Philadelphia, Pa. Medal. (Design.)	June 15, 1875			7	1013
168, 571	Linne, Henry L., Gilson, Ill. Feather-renovator.	Oct. 11, 1875	256	84	8	608
164, 924	Linscott, John M., Buxton, assignor of one-half interest to Frank H. Jordan, Portland, Me. Loom.	June 29, 1875	1049	338	7	1106
167, 345	Linsley, Charles F., West Meriden, Conn., assignor to Bradley & Hubbard Manufacturing Company. Lamp-fount.	Aug. 31, 1875	1136	357	8	392
171, 574	Linsley, Newton, John McCulloch, and William Clement, Lena, Ill. Leather-rolling machine.	Dec. 28, 1875	905	296	8	1095
169, 454	Lintner, William T., Marvin E. Weller, and Dayton S. Kellogg, Fort Plain, N. Y. Flour-sifter.	Nov. 2, 1875	119	38	8	751
	Linton, Elizabeth, administratrix. (See Linton, William.) (Extension.)					
	Same. same. (Reissue.)					
171, 575	Linton, Samuel E., Charlotte, N. C. Railway-switch.	Dec. 28, 1875	906	296	8	1095
	Linton, William, deceased, by Elizabeth Linton, administratrix, Baltimore, Md. Machine for molding pottery. (Extension.)	Feb. 11, 1875			7	386
6, 425	Same. same. (Reissue.)	May 11, 1875	542	173	7	825
167, 844	Lion, Thomas W., Brentsville, Va. Process and apparatus for the manufacture of illuminating-gas.	Sept. 21, 1875	441	141	8	484
166, 708	Lipe, Charles E., Syracuse, N. Y. Horse hay-rake.	Aug. 17, 1875	515	158	8	289
	Lipe, William M., et al. (See Ryan, William M., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 689	Lipps, Christopher. (See Strunz, Stephen, assignor.)					
169, 557	Lippy, David, assignor to John S. Blymyer, Mansfield, Ohio. Grain thrasher and separator.	May 9, 1875	398	134	7	415
162, 179	Lipsey, Andrew B., Jersey City, N. J., assignor of one-half interest to H. A. Sherrill, New York, N. Y. Wrench.	Nov. 2, 1875	217	71	8	764
161, 528	List, Adolph, Boonville, Ind. Rocking-chair.	Apr. 20, 1875	548	179	7	661
161, 529	List, Thomas J. (See Swift & List.)					
162, 931	Litchfield, Charles T., and Reinhold Bocklen, Brooklyn, N. Y. Wood-screw.	Mar. 30, 1875	1222	393	7	547
8, 591	Same. Machine for cutting screw-threads.	Mar. 30, 1875	1223	393	7	547
164, 192	Little, A. J., et al. (See Minor, John Q., assignor.)	May 4, 1875	179	59	7	770
8, 379	Littell, John S., Newark, N. J. Badge. (Design.)	Aug. 31, 1875			8	364
8, 485	Little, Alton L., Sheboygan Falls, Wis. Mowing-machine.	June 8, 1875	332	113	7	987
163, 876	Little, Andrew, New York, N. Y. Font of printing-types. (Design.)	June 8, 1875			7	968
165, 843	Same. Printing-type. (Design.)	June 13, 1875			8	49
170, 574	Little, Charles L. (See Merriam & Little.)					
171, 293	Little, George H. (See Burt & Little.)					
169, 276	Little, George H., Peabody, Mass. Injector or ejector for steam-engines.	June 1, 1875	35	11	7	935
166, 617	Same. Injector.	July 20, 1875	705	215	8	129
171, 295	Little, Henry W., Limestone Farm, Va. Apple corer and slicer.	Nov. 30, 1875	1238	{ 390 } { 391 }	8	531
159, 336	Little, Jacob W., Oskaloosa, Iowa. Vehicle running-gear.	Dec. 21, 1875	632	207	8	1049
160, 447	Little, James A., Cartersburgh, Ind. Wire fence.	Feb. 9, 1875	425	142	7	251
164, 570	Little, John L., Muncie, Ind. Feather duster.	Oct. 26, 1875	939	301	8	718
162, 669	Little, Oliver H. P., and Francis J. Heuber, Indianapolis, Ind. Furnace-grate.	Aug. 3, 1875	193	58	8	226
166, 211	Little, Orton C., Sheboygan Falls, Wis. Combination shell-joint. (Design.)	Sept. 21, 1875	442	141	8	484
165, 843	Little, Robert A. (See Northrup, Frank, assignor.)					
164, 311	Little, Samuel H., Rosemond, Ill. Street-car.	June 8, 1875	448	148	7	1002
164, 193	Littlefield, Charles, (See Smith, Robert, assignor.)					
171, 294	Littlefield, Charles, Carver's Harbor Post-Office, Me. Bush-hammer.	June 8, 1875	332	113	7	987
163, 936	Littlefield, Nahum, Portland, Me. Milk-can receptacle.	Dec. 21, 1875	633	207	8	1049
165, 008	Littlefield, Silas P., Lynn, Mass. Station-indicator.	June 1, 1875	81	28	7	942
169, 713	Same. Car-brake.	June 29, 1875	1120	361	7	1115
168, 908	Livermore, Horatio G., San Francisco, Cal. Ore-roasting furnace.	Nov. 9, 1875	394	124	8	794
159, 033	Livesay, Thomas C., and Henry H. Black, Montana City, Kans. Metal-shears.	Oct. 19, 1875	524	189	8	662
163, 791	Livingston, Augustus A., Wilmington, Ill. Stay-irons for wagon-bodies.	Jan. 26, 1875	682	224	7	139
166, 617	Livingstone, William, Valley Stream, assignor to self and H. A. Rogers, New York, N. Y. Lifting-jack.	May 25, 1875	1011	320	7	910
171, 295	Lizier, Joseph Z., et al. (See Shelenberger, Amos, assignor.)					
159, 336	Lloyd, Edwin L., et al. (See Busch, Henry E., assignor.)					
160, 447	Lloyd, Francis H., Wednesbury, England. Tuyere.	Aug. 10, 1875	412	{ 127 } { 128 }	8	266
164, 570	Lloyd, Samuel T., et al. (See Busch, Henry E., assignor.)					
162, 669	Lloyd, William H., Spring Valley, Minn. Manufacture of sleigh-knees.	Dec. 21, 1875	634	207	8	1049
166, 211	Loar, Benjamin B., Granville, Ohio. Gage for fitting watch-crystals.	Feb. 2, 1875	90	31	7	196
165, 453	Lobdell, George G., et al. (See Getz, Joseph C., assignor.)					
162, 081	Lobdell, George G., Wilmington, Del. Oscillating engine.	Mar. 2, 1875	173	59	7	373
165, 678	Same. Car-wheel.	June 15, 1875	693	225	7	1043
169, 817	Lobdell, Jacob B., and Monroe F. Bartlett, Battle Creek, Mich. Grain-separator.	Apr. 27, 1875	1019	326	7	728
160, 107	Lobree, Isaac, Antioch, Cal. Fancet.	Aug. 3, 1875	25	9	8	202
164, 570	Lochhead, David, Hochelaga, Canada. Mowing-machine.	July 13, 1875	324	95	8	60
169, 817	Lockard, Hiram, assignor of one-half interest to Thomas Agens, Newark, N. J. Bridle-bit.	Apr. 13, 1875	436	145	7	640
165, 678	Lockard, Hiram, and Thomas Agens, Newark, N. J.; said Lockard assignor of one-half interest to said Agens. Bridle-bit.	July 20, 1875	545	166	8	107
169, 455	Lockard, John A. (See Hughes & Lockard.)					
164, 650	Locke, Alpheus C. (See Locke, Nathaniel C., assignor.)					
160, 022	Locke, Jesse A., New York, N. Y. Furnace for steam-boilers.	Nov. 2, 1875	120	38	8	751
170, 178	Locke, Joseph R., Amesbury, Mass. Molding-machine.	June 23, 1875	776	254	7	1063
169, 817	Locke, Josiah H., San Francisco, Cal. Grain-separator.	Feb. 23, 1875	769	254	7	309
160, 107	Locke, Luther F., Nashua, N. H. Dental polishing-tool.	Nov. 23, 1875	867	271	8	171
164, 570	Locke, Nathaniel C. (See Campbell, Augustine, assignor.)					
169, 817	Locke, Nathaniel C., assignor to self and Alpheus C. Locke, Salem, Mass. Globe-valve.	Nov. 9, 1875	502	158	8	807
160, 107	Locke, Sylvanus D., Hoosick Falls, N. Y. Chain-link and chain.	Feb. 23, 1875	840	277	7	320
160, 780	Locker, Charles J. (See Smith, Tilton E., assignor.)					
167, 912	Lockhart, Alexander M., Pittsburgh, Pa. Combined bill holder and separator.	Mar. 16, 1875	507	165	7	436
167, 846	Lockhart, Alexander W., Sacramento, Cal. Feeder for thrashing-machines.	Sept. 21, 1875	500	159	8	493
171, 027	Lockwood, Edward M., West Meriden, Conn., assignor to Edward M. Lockwood and Charles Page. Door-bell.	Sept. 21, 1875	443	141	8	484
165, 741	Lockwood, Edward M., Meriden, Conn., assignor to self and Charles Page. Swing-joint for knobs and handles.	Dec. 14, 1875	350	117	8	1004
160, 690	Lockwood, Frank M. (See Tyler, Thomas W., assignor.)					
159, 427	Lockwood, George E. (See Lockwood, James F. and George E.)					
161, 419	Lockwood, Henry S., South Norwalk, Conn. Padlock.	July 20, 1875	589	184	8	116
169, 818	Lockwood, James F. and George E., Philadelphia, Pa. Carbureter.	Mar. 9, 1875	399	134	7	415
167, 455	Lockwood, James H., Chillicothe, Mo. Portable steam-oven.	Feb. 2, 1875	167	57	7	207
170, 864	Lockwood, John S., et al. (See Prentice, John, assignor.)					
163, 596	Lockwood, Lorenzo D., Charlestown, N. H. Window-screen.	Mar. 30, 1875	1117	361	7	533
164, 848	Lockwood, Philip E., London, England. Extract of beer or other fermented beverages.	Nov. 9, 1875	503		8	807
166, 880	Lockwood, Rhodes, Boston, Mass. India-rubber eraser.	Sept. 7, 1875	67	20	8	416
159, 830	Lockwood, Robert M., assignor to self and Elisha W. Andrews, New York, N. Y. Galvanic battery.	Dec. 7, 1875	185	63	8	975
	Lockwood, Samuel T., and John M. Ware, Chicago, Ill. Buckle or fastener.	May 25, 1875	848	268	7	888
	Lockwood, Silas. (See Hand, Joseph B., assignor.)					
	Lockwood, William. (See Foster & Lockwood.)					
	Lockwood, William E. (See Schuyler, John F.)					
	Lockwood, William H. (See Flynn, Frederick W., assignor.)					
	Loeher, Andrew J., et al. (See Harrington, Thomas, assignor.)					
	Loeser, Henrietta, et al. (See Loeser, Lazarus, assignor.)					
	Loeser, Lazarus, assignor to Charles Shackno and Henrietta Loeser, New York, N. Y. Shawl-strap handle.	June 22, 1875	957	310	7	1087
	Loeser, Lazarus, Brooklyn, N. Y. Buckle.	Aug. 17, 1875	677	209	8	312
	Loewenstein, Leopold. (See Mayer, Loewenstein & Mayer.)					
	Lo Forte, Remigio, New York, N. Y. Winter rail for high stoops.	Feb. 16, 1875	570	190	7	275

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160, 212	Loftus, James H., Oakland, Cal. Blade for screw-propellers.	Feb. 23, 1875	931	305	7	332
170, 575	Logan, John B., Baltimore, Md. Lock for sewing-machine covers, &c.	Nov. 30, 1875	1239	391	8	931
159, 193	Logan, Thomas H., United States Army. Croquet-mallet.	Jan. 26, 1875	822	270	7	159
167, 678	Logan, Thomas H., and James B. Thompson, Lowell, Mass. Loom-shuttle spindle.	Sept. 14, 1875	276	87	8	452
161, 421	Lohmeyer, Henry, Shreveport, La. Watch-key.	Mar. 30, 1875	1119	362	7	533
168, 033	Lohr, Jacob T., Manistee, Mich. Vegetable-cutter.	Sept. 21, 1875	605	194	8	509
167, 913	Loiseau, Emile F., Philadelphia, Pa. Machine for mixing and molding artificial fuel.	Sept. 21, 1875	500	159	8	493
167, 914	Same. Composition for artificial fuel.	Sept. 21, 1875	501	.....	8	493
8, 002	Lomas, John R., assignor to B. Shoninger, New Haven, Conn. Reed-organ case. (Design)	Jan. 12, 1875	.....	.....	7	48
8, 855	Same. Organ-case. (Design).	Dec. 21, 1875	.....	.....	8	1034
159, 590	Lomas, John R., assignor to Bernard Shoninger, New Haven, Conn. Organ-reed board.	Feb. 9, 1875	336	111	7	239
160, 213	Lomas, John R., assignor to B. Shoninger, New Haven, Conn. Organ-case.	Feb. 23, 1875	931	305	7	332
160, 448	Same. Reed-organ attachment.	Mar. 2, 1875	174	60	7	373
160, 605	Lomas, John R., assignor to Bernard Shoninger, New Haven, Conn. Reed-organ tremolo.	Mar. 9, 1875	325	110	7	404
161, 134	Same. Reed-organ.	Mar. 23, 1875	832	272	7	488
169, 363	Lomax, George H., Somerville, Mass. Combined salt and pepper box.	Nov. 2, 1875	44	13	8	740
170, 383	Lombard, Daniel, assignor to self and Liverus Hull, Boston, Mass. Coffee-huller.	Nov. 23, 1875	1045	328	8	696
167, 180	Lombard, Oliver D., assignor of one-half interest to Earl A. Thissell, Lowell, Mass. Warp-beam.	Aug. 31, 1875	997	310	8	372
	Lomont, François T., et al. (See Brown, James O., assignor.)					
	London, William E. (See Doane & London) (Reissue.)					
164, 571	Long, Aaron, assignor of one-half interest to George W. Bailey, Ann Arbor, Mich. Sash-fastener.	June 15, 1875	694	225	7	1043
161, 247	Long, Charles B., Worcester, Mass., assignor of three-fourths interest to C. D. Periam and J. D. Faintote, Newark, N. J., and George W. Swick. Machine for crimping leather for boots and shoes.	Mar. 23, 1875	935	{ 304 } { 305 }	7	502
158, 643	Long, David W., assignor to W. N. Chancellor, Parkersburgh, W. Va. Hinge.	Jan. 12, 1875	273	92	7	62
170, 750	Long, David W., Parkersburgh, W. Va. Hinge.	Dec. 7, 1875	88	28	8	962
163, 387	Long, George S., assignor of two-thirds interest to Burton, 2d, and Norman Allen and Henry W. Porter, Forestville, Conn. Machine for cutting corks.	May 18, 1875	640	205	7	854
	Long, John C. (See Haswell & Long.)					
	Same. (See Long, Nathan H., assignor.)					
166, 791	Long, John S., Elkhaville, Ill. Shot-charger for shot-pouches.	Aug. 17, 1875	590	182	8	300
168, 509	Long, Nathan H., Muncie, assignor to self and John C. Long, Eaton, Ind. Automatic gate.	Oct. 5, 1875	172	55	8	589
169, 647	Long, Richard, Pittsburg, Pa. Nut-lock.	Nov. 9, 1875	327	103	8	785
170, 384	Same. Railway-rail joint.	Nov. 23, 1875	1047	329	8	896
162, 482	Long, Samuel L., Keithsburg, Ill., assignor of one-half interest to W. D. Smith. Automatic fly-brush.	Apr. 27, 1875	856	275	7	708
	Long, Sydney C. (See Shoemaker, William S., assignor.)					
161, 135	Longland, James C., Rome, N. Y. Water-bridge boshe for puddling-furnaces.	Mar. 23, 1875	833	272	7	488
164, 925	Longley, Elias, Cincinnati, Ohio. Addressing-machine.	June 29, 1875	1050	338	7	1106
170, 751	Longmaid, John, Bingham, Utah. Ore-concentrator.	Dec. 7, 1875	89	29	8	962
165, 742	Look, Joseph, assignor to Brigham, Litchfield & Vining, South Abington, Mass. Joiner's plane.	July 20, 1875	599	184	8	116
167, 107	Loomis, Bordman J., Ashtabula, Ohio. Key-fastener.	Aug. 24, 1875	906	283	8	352
164, 097	Loomis, John S., Brooklyn, N. Y. Machine for finishing wood moldings.	June 8, 1875	251	86	7	976
171, 296	Same. Adjusting pressure-feet of molding-machines.	Dec. 21, 1875	634	208	8	1050
171, 148	Loomis, Kellogg H., Philadelphia, Pa., assignor to William A. Lighthall, Brooklyn, N. Y. Punch for making nut-lock washers.	Dec. 14, 1875	471	154	8	1020
165, 598	Loomis, Samuel P., Chattanooga, Tenn. Washing-machine.	July 13, 1875	455	138	8	80
160, 781	Loomis, Thomas T., Chicago, Ill. Steam pile-driver.	Mar. 16, 1875	509	165	7	436
165, 170	Same. same.	July 6, 1875	27	8	8	12
	Loosley, Robert O., et al. (See Taylor & McCamish, assignors.)					
168, 909	Lord, Charles, and Bernard J. McCabe, Shelbyville, Ind. Gas-apparatus.	Oct. 19, 1875	574	189	8	662
164, 312	Lord, Eli H., and Barnabus D. Evans, Petersburg, Va. Portable furnace.	June 8, 1875	448	148	7	1002
	Lord, Francis E. (See Lord, Jason P., Francis E., and Orrin E.)					
	Lord, H. (See Ellis, George T., assignor.)					
161, 136	Lord, Jason P., Francis E., and Orrin E., Readsborough, Vt. Mowing-machine.	Mar. 23, 1875	834	272	7	488
	Lord, Orrin E. (See Lord, Jason P., Francis E., and Orrin E.)					
165, 939	Lord, Orrin E., assignor to Titus Stowe, Readsborough, Vt. Folding cot.	July 27, 1875	809	248	8	156
169, 911	Loretz, Arthur J. L., Brooklyn, N. Y. Combined steam and cut-off valve.	Nov. 16, 1875	600	187	8	828
162, 082	Lorey, William, Philadelphia, Pa. Mowing-machine.	Apr. 13, 1875	437	145	7	640
166, 117	Loring, Harrison, Boston, Mass. Rotary bleaching-boiler.	July 27, 1875	976	301	8	179
161, 420	Losie, Thomas M., Elmira, N. Y. Metallic roof.	Mar. 30, 1875	1118	361	7	533
	Lothrop, Thomas C. (See Dunbar & Lothrop.)					
160, 831	Lotz, Lorenz, Brooklyn, N. Y. Elevated railway.	Mar. 16, 1875	552	179	7	442
165, 342	Louch, John H., Rome, Ind. Potato-digger.	July 6, 1875	181	55	8	34
	Loud & Son, Reuben. (See Loud, Richard, assignor.)					
166, 469	Loud, Richard, assignor to Reuben Loud & Son, South Weymouth, Mass. Refrigerator.	Aug. 10, 1875	290	86	8	247
161, 530	Loudenslager, Solomon S., assignor of one-half interest to William T. Smith, Polo, Ill. Harvester.	Mar. 30, 1875	1224	394	7	547
165, 844	Loughran, Michael, Allegheny, Pa. Washing-machine.	July 20, 1875	707	215	8	129
165, 343	Loughbridge, William, Baltimore, Md. Soda-water apparatus.	July 6, 1875	183	55	8	34
171, 576	Louis, Daniel, Philadelphia, Pa. Washing-machine.	Dec. 28, 1875	907	267	8	1096
161, 802	Louis, William W., Frezerant, Tenn. Cotton-press.	Apr. 6, 1875	180	61, 62	7	595
	Louisiana Cotton-Tie Company. (See Gilman, Samuel H., assignor.)					
161, 046	Lounsberry, Norman O., Wilmington, Del. Leather-dressing machinery.	Mar. 23, 1875	744	245	7	477
6, 369	Lovalt, John, deceased, by Mary A. Lovalt and Thomas G. Swartout, executors, Tarrytown, N. Y. Skate.	Apr. 6, 1875	237	79	7	602
	Lovalt, Mary A., executrix. (See Lovalt, John) (Reissue.)					
159, 941	Love, John C., Philadelphia, Pa. Drop-light.	Feb. 16, 1875	674	223	7	289
159, 942	Same. Lamp-holder.	Feb. 16, 1875	675	224	7	290
166, 392	Love, Obadiah, Saxenburgh, Pa. Post-hole borer.	Aug. 3, 1875	195	58	8	226
168, 756	Love, Thomas C., Waldo, Mo. Combined hame and collar.	Oct. 11, 1875	422	138	8	632
162, 483	Lovejoy, Addison, South Paris, Me. Shingling-bracket.	Apr. 27, 1875	856	275	7	708
167, 915	Lovejoy, Ira A., Denver, Colo. Stove-leg.	Sept. 21, 1875	502	159	8	493
	Lovejoy, Joseph A. (See Morse, Edward, assignor.)					
	Lovelace, William R. (See Gourley & Lovelace.)					
	Loveland, Mary. (See Noble, John C., assignor.)					
	Lovell, Henry H. (See Lovell, Homer T., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 057	Lovell, Homer T., Ionia, assignor of one-half interest to Henry H. Lovell, Greenville, Mich. Car-coupling	Feb. 23, 1875	801	263	7	314
166, 284	Lovell, Melvin N., Erie, Pa. Index	Aug. 3, 1875	93	28	8	212
167, 615	Same. Clothes-drier	Sept. 14, 1875	222	69	8	444
170, 959	Same. Gage for cutting index-tabs	Dec. 14, 1875	288	97	8	996
170, 960	Same. Step-ladder	Dec. 14, 1875	288	97	8	997
169, 558	Lovenguth, John, assignor to self and F. E. Hoffman, Saint Louis, Mo. Combined letter-box and door-bell	Nov. 2, 1875	217	72	8	764
167, 346	Loveridge, Edwin D., Buffalo, N. Y. Still	Aug. 31, 1875	1137	358	8	392
8, 662	Lovett, Thomas R., Philadelphia, Pa. Cane or other handles. (Design)	Sept. 21, 1875			8	475
167, 456	Low, William, Webster, Mich. Earth-auger	Sept. 7, 1875	68	21	8	416
167, 347	Lowe, Austin, Salina, Kans., assignor of two-thirds interest to D. C. and Thomas E. Skinner. Wind-power	Aug. 31, 1875	1138	358	8	392
	Lowe, Francis A. (See Wengler, Robert M., assignor.)					
161, 248	Lowe, James A., New York, N. Y. Machine for cutting out web-gate of cast-lead traps	Mar. 23, 1875	938	305	7	502
167, 847	Lowe, Thaddeus S. C., Norristown, Pa. Process and apparatus for the manufacture of illuminating or heating gas	Sept. 21, 1875	444	141	8	484
				142		
171, 522	Lowe, Thomas R., Centreville, Cal. Process for leveling land	Dec. 28, 1875	859	281	8	1088
	Lowell Machine Shop. (See Richardson, George, assignor) (Reissue.)					
	Same. (See Scott, John, assignor.)					
	Lowell Manufacturing Company. (See Barclay, Thomas, assignor) (Design.)					
	Same. (See Campbell, Robert R., assignor) (Design.)					
	Same. (See Christie, Joseph M., assignor) (Design.)					
	Same. (See Guiraud, Etienne, assignor) (Design.)					
	Same. (See Lilley, Alfred, assignor) (Design.)					
	Same. (See Lilley, Charles S., assignor) (Design.)					
	Same. (See McNair, David, assignor) (Design.)					
	Same. (See Swapp, Charles W., assignor) (Design.)					
170, 283	Lowery, John, assignor to Excelsior Flint Glass Company, Pittsburgh, Pa. Tool for finishing lamp-chimneys	Nov. 23, 1875	957	300	8	283
167, 549	Lowman, Daniel S., and Henry T. Creps, Leitersburgh, Md. Fruit-drier	Sept. 7, 1875	149	46	8	427
8, 164	Lowry, George W., East Cambridge, Mass. Glass dish. (Case A. Design)	Feb. 23, 1875			7	302
8, 165	Same. same. (Case B. Design)	Feb. 23, 1875			7	302
159, 194	Lowthorp, Francis C., Chambersburgh, N. J. Metallic post or girder for truss-bridges	Jan. 26, 1875	823	271	7	159
160, 532	Loy, Daniel O., Farmer City, Ill. Machine for sanding brick-molds	Mar. 9, 1875	262	89	7	395
169, 819	Lozier, Alfred E., New York, N. Y. Elevated railway	Nov. 9, 1875	504	158	8	807
168, 510	Lozo, Martin, Claremont, N. H. Egg-beater	Oct. 5, 1875	172	56	8	549
168, 264	Lubin, Leon T., Boston, Mass. Truss	Sept. 28, 1875	844	269	8	549
159, 195	Lucas, Christian E., Atlanta, Ga., assignor of one-half interest to John F. Divine, Wilmington, N. C. Sleeping-car berth	Jan. 26, 1875	823	271	7	159
	Same. Sleeping-car	Feb. 2, 1875	168	57, 58	7	207
161, 249	Lucas, Christian E., Atlanta, Ga. Sleeping-car	Mar. 23, 1875	937	305	7	502
				306		
166, 792	Lucas, Christian E., Atlanta, Ga., assignor of one-half interest to John F. Divine, Wilmington, N. C. Sleeping-car	Aug. 17, 1875	591	182	8	300
168, 098	Lucas, Christian E., Atlanta, Ga., assignor of one-half interest to John F. Divine, Wilmington, Del. Sleeping-car	Sept. 28, 1875	694	219	8	527
160, 922	Lucas, George H., Pekin, Ill. Windmill	Mar. 16, 1875	627	204	7	452
	Lucas, Simon H. (See Shaw & Lucas.)					
158, 595	Luce, William C., Fort Byron, Ill. Traction-engine	Jan. 12, 1875	233	78	7	56
162, 932	Luckenbach, Frederic A., New York, N. Y. Annealing furnace-slag castings	May 4, 1875	180	59	7	771
159, 692	Luckhardt, Caesar A., San Francisco, Cal. Quicksilver-furnace	Feb. 9, 1875	425	142	7	251
159, 337	Lucky, Mahlon M., assignor of one-third interest to Hezekiah Hutchings, Indianapolis, Ind. Builder's trestle	Feb. 2, 1875	90	31	7	196
169, 012	Ludden, William A., Brooklyn, N. Y. Pen and pencil case	Oct. 19, 1875	666	219	8	674
	Ludington, Colo. (See Wall & Ludington.)					
	Ludlow, Alfred. (See Hookham, George, assignor.)					
	Ludlow, Edwin, et al. (See Huggins, John, assignor.)					
160, 923	Ludlow, James B., Muncie, Ind. Corn-drill	Mar. 16, 1875	623	205	7	452
165, 845	Ludlow, Richard C., Saint Louis, Mo. Railway-rail chair	July 20, 1875	707	215	8	129
170, 866	Ludlow, Samuel W., Cincinnati, Ohio. Carriage-wheel	Dec. 7, 1875	186	63	8	975
160, 340	Ludlow, Washington I., Washington, D. C. Mortising-machine	Mar. 2, 1875	75	26	7	359
165, 009	Ludlow, Washington I., Rochester, N. Y. Pencil-case	June 29, 1875	1121	362	7	1115
166, 996	Ludwig, Charles H., New York, N. Y. Champagne-freezer	Aug. 24, 1875	802	249	8	338
	Ludwig, Johann H. A. (See Buckner, Charles, jr., assignor.)					
170, 385	Ludwig, John C., San Francisco, assignor of part interest to William H. Hall, Martin Corcoran, B. D. Murphy, James V. Tisdal, Charles Washeim, David B. Moody, San José, Cal. Fac-simile telegraph	Nov. 23, 1875	1048	329	8	896
161, 047	Lufkin, Charles M., Langdon, N. H. Machine for digging stones, stumps, roots, &c.	Mar. 23, 1875	744	245	7	477
166, 118	Lufkin, Charles M., and Charles G. Allen, Barry, Mass. Horse hay-rake	July 27, 1875	977	301	8	179
170, 284	Lufkin, John W. and Richard H., Chelsea, Mass. Sewing-machine	Nov. 23, 1875	958	300	8	883
				301		
	Lufkin, Richard H. (See Lufkin, John W. and Richard H.)					
169, 559	Lugenbell, Peter, Greensburgh, Ind. Hand-truck	Nov. 2, 1875	219	72	8	764
170, 867	Same. Sash-holder	Dec. 7, 1875	187	64	8	976
165, 344	Lugo, Orazio, Jersey City, N. J. Process of manufacturing animal charcoal	July 6, 1875	184		8	34
165, 345	Lugo, Orazio, assignor to John R. McPherson, Jersey City, N. J. Fertilizer	July 6, 1875	185		8	34
	Luke, Charles. (See Thompson & Luke.)					
	Luke, Orrin, et al. (See Jerrold, John E., assignor.)					
163, 220	Lukens, Joseph H., Burlington, N. J. Railway-switch stand	May 11, 1875	464	150	7	815
				151		
6, 735	Lumbert, Joseph, Wilbraham, Mass. Door-hanger. (Reissue)	Nov. 9, 1875	573	178	8	816
161, 619	Same. same	Apr. 6, 1875	26	11	7	572
	Lumley, Richard F. (See Stevens & Lumley.)					
163, 019	Lund, Loren M. G., Racine, Wis. Blind-slat adjuster	May 11, 1875	280	90	7	792
8, 040	Lunday, Isaac G., and Calton G. Anglin, Hickory Flat, Ala. Grave covering. (Design)	Feb. 2, 1875			7	181
	Lundqvist, Alexius T. (See De Barry & Lundqvist.)					
	Lundqvist, Thorvald J. (See De Barry & Lundqvist.)					
164, 849	Lundy, William, Atalissa, Iowa. Lifting-gate	June 22, 1875	958	310	7	1027
164, 313	Lunkenheimer, Frederick, Cincinnati, Ohio, and Alexander Riegler, Newport, Ky. Sand-core for castings	June 8, 1875	449	148	7	1002
166, 393	Lunkenheimer, Frederick, Cincinnati, Ohio. Globe-valve	Aug. 3, 1875	195	58	8	226
	Lusby, Comegys C. (See Gray & Lusby.)					
165, 423	Lusby, James A., and John V. Smith, Washington, D. C., assignors of one-half interest to Walton Brothers, New York, N. Y. Ship's galley	July 13, 1875	291	86	8	55
162, 083	Lusk, Stephen C., Yonkers, N. Y. Cot-bedstead	Apr. 13, 1875	437	146	7	640

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166, 618	Lussenhop, Ferdinand C., Hoboken, N. J. Awning	Aug. 10, 1875	414	128	8	266
170, 868	Lusted, Charles, New Orleans, La. Drop-hammer	Dec. 7, 1875	188	64	8	976
169, 456	Luthy, Adolph, New York, N. Y. Bottle-stopper	Nov. 2, 1875	121	38	8	751
161, 973	Luttgens, Henry A., Paterson, N. J. Thill-coupling	Apr. 13, 1875	346	116	7	628
169, 912	Lutz, Frank W., Kittery, Me. Saw-filing machine	Nov. 16, 1875	603	187	8	828
	Luxa, Franz. (See Svoboda & Luxa.)					
171, 396	Lyall, James, New York, N. Y. Take-up motion for looms	Dec. 21, 1875	726	238	8	1062
	Lybarger, Jasper R. (See McGugin, Lybarger & Hibbets.)					
	Lye, Francis J. (See Lye, Lewis N., assignor.)					
171, 297	Lye, Lewis N., Allen County, assignor of one-half interest to Francis J. Lye, Delphos, Ohio. Anti-incrustation compound	Dec. 21, 1875	635	.....	8	1050
168, 654	Lyman, Azel S., New York, N. Y. Apparatus for purifying, drying, and cooling or warming air	Oct. 11, 1875	334	109	8	620
169, 457	Lyman, Charles H., assignor to Bradley and Hubbard Manufacturing Company, West Meriden, Conn. Lantern	Nov. 2, 1875	121	39	8	752
	Lyman, Darius. (See Torrey & Lyman.)					
	Lyman, D. T. (See Lyman, Gurdon E., assignor.)					
163, 792	Lyman, George B., Dayton, Ohio. Extension-table slide	May 25, 1875	1011	321	7	910
158, 644	Lyman, Gurdon E., assignor to D. T. Lyman, Providence, R. I. Spool machine	Jan. 12, 1875	273	92, 93	7	62
159, 274	Lyman, Levi L., and Edward A. Boell, San Francisco, Cal. Slate-washer	Feb. 2, 1875	29	10	7	188
8, 466	Lyman, Seymour, Leominster, Mass. Letter or toy building-block. (Design)	July 6, 1875	.....	.....	8	4
169, 277	Lyman, William, Middlefield, Conn. Oar	Oct. 26, 1875	929	302	8	718
166, 997	Lynam, John T., Louisville, Ky. Grain-drill	Aug. 24, 1875	803	294	8	338
	Lynch, John, jr. (See Brown, Isaac W., assignor.)					
	Lyon & Healey. (See White, Hiram W., assignor.) (Reissue.)					
164, 314	Lyon, Arza T., Cincinnati, Ohio. Paint compound	June 8, 1875	450	.....	7	1002
164, 850	Lyon, Arza T., Cincinnati, assignor to the Indestructible Building Material Company, Ohio. Composition for building purposes	June 22, 1875	959	.....	7	1087
164, 851	Same. Paint compound	June 22, 1875	959	.....	7	1087
169, 278	Lyon, Charles M., Newark, N. J. Machine for ornamenting cuspadores and similar articles	Oct. 26, 1875	930	302	8	718
159, 520	Lyon, Emra D., Ottawa, Ill. Rotary-engine	Feb. 9, 1875	248	92	7	231
165, 846	Lyon, George R., assignor to R. G. Case, Chicago, Ill. Extension-fixture for lamps and chandeliers	July 20, 1875	708	216	8	130
	Lyon, George W., et al. (See White, Hiram W., assignor.)					
	Lyon, Henry A. (See Humbert, Leroy, assignor.)					
8, 464	Lyon, James B., Pittsburgh, Pa. Glassware. (Design)	July 6, 1875	.....	.....	8	4
8, 465	Same. Base of glassware. (Case B. Design)	July 6, 1875	.....	.....	8	4
161, 531	Lyon, James W., Brooklyn, N. Y. Gas-burner	Mar. 30, 1875	1225	394	7	547
169, 364	Same. Blank for gas-fitters' hooks	Nov. 2, 1875	45	13	8	740
168, 757	Lyon, Lucius, New York, N. Y. Sewing-machine	Oct. 11, 1875	423	138	8	632
167, 916	Lyon, Sylvanus, Springfield, N. J. Pocket-book	Sept. 21, 1875	5, 2	159	8	493
166, 470	Lyon, Thomas, Hartford, and Emery Parker, assignors to Russell and Irwin Manufacturing Company, New Britain, Conn. Lock for sliding doors	Aug. 10, 1875	291	87	8	248
168, 034	Lyon, William, Newark, N. J. Rotary pump	Sept. 21, 1875	606	194	8	509
168, 035	Same. Rotary engine	Sept. 21, 1875	606	195	8	509
168, 940	Lyons, Gilbert C., Clarinda, Iowa. Colter	Oct. 19, 1875	507	166	8	653
165, 346	Lyons, John, assignor of one-half interest to Philo. S. Crofut, New Haven, Conn. Music-stand	July 6, 1875	186	56	8	34
164, 194	Lyons, Michael F., New York, N. Y. Window	June 8, 1875	333	114	7	987
	Lyons, Philip. (See Flummerfelt, Daniel A., assignor.)					
170, 285	Lyons, Samuel C., Bennington, Vt. Water-wheel	Nov. 23, 1875	961	301	8	884
	Lyons, William A. (See Gregg, Marshall, assignor.)					
169, 560	Lytle, William A., Hammersmith, England. Apparatus for the production of iron and steel from the ore	Nov. 2, 1875	219	72	8	764
160, 934	Mabie, George W., Brooklyn, N. Y. Pen and pencil case	Mar. 16, 1875	629	205	7	452
171, 149	Macabies, Paul N. J., Paris, France. Water-feeder for steam-boilers	Dec. 14, 1875	472	154	8	1020
166, 932	Macaulay, Aulay, Cambridgeport, Mass. Combined horse-collar and hame	Aug. 24, 1875	736	228	8	329
166, 471	MacConnel, Augustus, Cambridge, Mass. Governor for electric motors	Aug. 10, 1875	291	87	8	248
168, 511	MacDonald, John C., Waddon, and Joseph Calverley, Surrey County, England. Printing-press	Oct. 5, 1875	173	56	8	589
	Macdonald, Joseph A. (See Crow, William J., assignor.)					
170, 869	Macdonald, Manvill M., Syracuse, N. Y. Plaiting-machine	Dec. 7, 1875	189	64	8	976
162, 835	Mack, Martin M., Belvidere, Ill. Barbed fence-wire	May 4, 1875	90	30	7	759
8, 067	Mackay, John R., assignor to C. Rogers & Bros., West Meriden, Conn. Coffin-handle socket. (Design)	Feb. 16, 1875	.....	.....	7	261
159, 831	Mackay, Patrick N., San Francisco, Cal. Flux for treating ores	Feb. 16, 1875	571	.....	7	276
	MacKellar, Smiths & Jordan. (See Ihlenburg, Herman, assignor.) (Design)					
	Same. (See Jordan, Peter A., assignor.) (Design)					
170, 678	Mackenzie, Neal M., Providence, R. I. Sofa	Dec. 7, 1875	23	7	8	954
165, 347	Mackenzie, Philip W., Blaauveltville, N. Y. Manufacture of gas	July 6, 1875	186	56	8	34
168, 265	Same. Gas apparatus	Sept. 28, 1875	845	270	8	549
168, 758	Same. Apparatus for the manufacture of illuminating-gas	Oct. 11, 1875	424	138	8	633
169, 648	Macker, Helen L., Boston, Mass. Alloy for bell-metal	Nov. 9, 1875	328	.....	8	785
159, 591	Mackey, John C., Chicago, Ill. Lath-bolting machine	Feb. 9, 1875	336	{ 111 112 }	7	239
168, 759	Same. Lath-machine	Oct. 11, 1875	425	139	8	633
166, 119	Mackey, Robert, and Matthew Green, Nevada, Mo. Cotton-press	July 27, 1875	978	302	8	180
165, 106	Mackinney, Herbert G., assignor to Albert J. Smith, Hervey Huestis, and Herbert G. Mackinney, North Attleborough, Mass. Umbrella-handle	June 29, 1875	1207	388	7	1127
165, 940	Mackinney, Herbert G., North Attleborough, Mass. Handkerchief-holder	July 27, 1875	809	248	8	176
167, 457	Same. Setting gems	Sept. 7, 1875	68	21	8	416
168, 266	Mackli, Frank, Richmond, Tex. Wash-boiler	Sept. 28, 1875	847	270	8	549
166, 535	Mackrell, William S., assignor to self, William B. Wilson, and Curtis T. Roff, Brenham, Tex. Metallic window-blind	Aug. 10, 1875	341	105	8	255
170, 870	Maclure, John, assignor to Edwin R. Cahoon, Newark, N. J. Harness-saddle	Dec. 7, 1875	189	64, 65	8	976
170, 871	Same. same	Dec. 7, 1875	190	65	8	976
159, 338	Macomber, Thomas S., Hamilton, N. Y. Plow	Feb. 2, 1875	91	31	7	196
160, 692	Macomber, Wyman C., assignor, by mesne assignment, to Minneapolis Manufacturing Company, Minneapolis, Minn. Drive-well strainer	Mar. 9, 1875	401	134	7	415
165, 599	Macneale, Neil, Cincinnati, Ohio. Safe-door	July 13, 1875	456	138	8	80
162, 758	Macnee, James, Webster City, Iowa. Butter-worker	May 4, 1875	20	7	7	749
160, 740	Macneil, Donald L., New York, N. Y. Retort for the manufacture of illuminating-gas	Mar. 9, 1875	446	148	7	421
160, 691	MacNeil, Thomas, Brooklyn, N. Y. Chamber of fire-arms and ordnance	Mar. 9, 1875	400	134	7	415
169, 458	MacNutt, Ezra, Philadelphia, Pa. Watch-regulator	Nov. 2, 1875	122	39	8	752

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158, 722	Macphail, James, La Porte City, Iowa. Bag-fastener.....	Jan. 12, 1875	344	117	7	72
166, 212	Macqueen, Alfred, jr., Philadelphia, Pa. Shower-bath.....	Aug. 3, 1875	26	9	8	202
169, 820	Macqueen, William S., Philadelphia, Pa. Soldering-tool.....	Nov. 9, 1875	505	158	8	807
161, 889	Macy, Egbert, Brooklyn, N. Y., assignor of two-thirds interest to Franz Samuelson, Jersey City, N. J., and Thomas M. Brintnall, New York, N. Y. Milk-conductor.....	Apr. 13, 1875	276	93	7	620
158, 426	Madden, Michael. (See Winter, Louis F., assignor.)					
	Madden, Michael, assignor of one-half interest to William C. McFadden, Harrisburgh, Pa. Car-brake.....	Jan. 5, 1875	63	22	7	18
167, 616	Same.....Car-brake shoe.....	Sept. 14, 1875	223	69	8	444
166, 998	Maddock, Thomas, Trenton, N. J. Hand wash-bowl.....	Aug. 24, 1875	804	249	8	338
160, 449	Maedel, Ernst A., Washington, D. C. Music-leaf turner.....	Mar. 2, 1875	175	60	7	373
162, 566	Magee, Henry, South Boston, Mass. Combined pastry-table and refrigerator.....	Apr. 27, 1875	926	297	7	717
	Maginness, E. A., et al. (See Van Dusen, Charles, assignor.)					
169, 013	Maginness, Edmund A., New Albany, Ind. Fire-extinguisher.....	Oct. 19, 1875	666	219	8	674
163, 221	Maglaughlin, Alfonso A., assignor of one-half interest to Llewellyn H. Johnson, Cold Water, Mich. Compound for insulating telegraph-wires.....	May 11, 1875	466	.....	7	815
52, 726	Magoun, Abner B., Philadelphia, Pa. Window-screen.....(Disclaimer filed.)	Aug. 13, 1875	.....	.....	8	194
167, 917	Magruder, Thomas J., Marion, Ohio, assignor of one-half interest to James Thornton and Emmet G. Latta, Friendship, N. Y. Harness buckle.....	Sept. 21, 1875	503	160	8	493
167, 263	Maguire, Thomas, Port Jervis, N. Y. Hitching-post.....	Aug. 31, 1875	1066	332	8	382
167, 550	Same.....Pump-valve.....	Sept. 7, 1875	150	46	8	427
165, 743	Mahler, Frederick, Rochester, N. Y. Commode or stand.....	July 20, 1875	600	184	8	116
161, 422	Mahoney, James F., Erie, Pa. Fusible plug for steam-generators.....	Mar. 30, 1875	1119	362	7	533
160, 272	Mahony, James, Newport, R. I. Shaking-grate.....	Mar. 2, 1875	16	7	7	351
163, 020	Same.....Ship's berth.....	May 11, 1875	281	91	7	792
159, 521	Mahony, Jeremiah B., Boston, Mass. Extension-ladder.....	Feb. 9, 1875	285	92	7	231
	Maiden, Henry. (See Iles, Henry J., assignor.)					
170, 006	Maine, William H., Abington, Mass. Curtain-fixture.....	Nov. 16, 1875	680	213	8	839
169, 113	Mainer, Robert, Orillia, Canada. Caddy for holding tea, coffee, &c.....	Oct. 26, 1875	785	255	8	698
	Maitland, John, et al. (See Adgate, Joseph J., assignor.)					
170, 576	Malcolm, Robert J., Cincinnati, Ohio. Stop and waste cock.....	Nov. 30, 1875	1240	391	8	931
166, 394	Malcolmson, Thomas, assignor of one-half interest to David L. Trax, Oil City, Pa. Pump-piston for artesian wells.....	Aug. 3, 1875	196	58	8	226
6, 504	Males, Samuel, Cincinnati, Ohio. Cider-mill.....(Reissue.)	June 22, 1875	1020	329	7	1094
165, 941	Malbère, Eugene, Paris, France. Lace-machine.....	July 27, 1875	810	{ 248 } 249	8	156
166, 120	Malin, Ann, Darby, Pa. Frying-pan.....	July 27, 1875	979	302	8	180
8, 126	Malkin, Levi G., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 127	Same.....same.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 128	Same.....same.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 129	Same.....same.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 130	Same.....same.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 131	Same.....same.....(Design.)	Feb. 23, 1875	.....	.....	7	302
8, 528	Same.....same.....(Design.)	July 27, 1875	.....	.....	8	148
163, 672	Mallery, Isaac, Dryden, N. Y. Water-wheel.....	May 25, 1875	910	289	7	897
170, 633	Same.....same.....	Nov. 10, 1875	1301	410	8	938
166, 472	Mallinson, James, Welwyn, England. Stop-cock.....	Aug. 10, 1875	292	87	8	248
162, 484	Mallory, Amos, Mystic River, Conn. Bosom-board.....	Apr. 27, 1875	857	275	7	708
163, 671	Mallory, Amos, Mystic Bridge, Conn. Loom-shuttle binder.....	May 25, 1875	909	289	7	897
8, 772	Mallory, Burton, assignor to Mallory, Wheeler & Co., New Haven, Conn. Door-knob.....(Design.)	Nov. 9, 1875	.....	.....	8	776
164, 572	Mallory, Burton, New Haven, Conn. Mortise-lock for sliding doors.....	June 15, 1875	695	226	7	1044
	Mallory, Henry P. (See Segar, Charles T., assignor.)					
	Mallory, Wheeler & Co. (See Andrews, William H., assignor.)					
	Same.....(See Mallory, Burton, assignor.).....(Design.)					
162, 396	Mallory, William H., Bridgeport, Conn. Steering-propeller.....	Apr. 20, 1875	752	244	7	686
167, 181	Mallory, William H. H., Cambridge, Mass. Cleaning obstructions from pipes of ice-machines.....	Aug. 31, 1875	998	.....	8	372
167, 182	Same.....Congealer or condenser.....	Aug. 31, 1875	998	310	8	372
169, 821	Malmgren, Charles O., Chicago, Ill. Burglar-alarm.....	Nov. 9, 1875	506	159	8	808
160, 925	Malmström, Peter E., and Paul E. Dummer, New York, N. Y. Drawing effervescent liquids.....	Mar. 16, 1875	630	205	7	452
158, 506	Malone, John H., South Manchester, Conn. Washing-machine.....	Jan. 5, 1875	138	46	7	28
	Maloney, James A., et al. (See Reynolds, Ransom S., assignor.).....(Reissue.)					
	Maloney, James A. (See Wheeler, Jesse B., assignor.).....(Reissue.)					
	Maltby, E. Chapman. (See Smith & Maltby.)					
165, 348	Manasse, Emanuel, Napa, Cal. Process of preparing or tanning skins.....	July 6, 1875	188	.....	8	35
158, 427	Manchester, Eugene L., and John A. Bolen, Springfield, Mass. Thread-winding guide.....	Jan. 5, 1875	64	23	7	18
	Manderville, James H. (See Tallman & Manderville.)					
164, 315	Mandeville, James H., Washington, D. C. Adjustable tripod for mining-drills.....	June 8, 1875	450	{ 148 } 149	7	1002
167, 264	Manee, Wesley, Jefferson Township, Mich. Churn-cap.....	Aug. 31, 1875	1067	332	8	382
161, 620	Manes, James, Pittsburgh, Pa. Revolving furnace.....	Apr. 6, 1875	27	11	7	572
167, 918	Mangum, William P., Cropper's Depot, Ky. Churn.....	Sept. 21, 1875	504	160	8	493
158, 852	Mangus, Levi, North Liberty, Ind. Pitman-connection.....	Jan. 19, 1875	481	161	7	166
	Manhattan Lime Hurdle Company. (See Day, George W., assignor.)					
170, 386	Manley, Almon D., Washington, Mich. Horse-power.....	Nov. 23, 1875	1051	330	8	896
	Manley, Andrew J. (See Perry & Manley.)					
162, 933	Manley, Henry P., assignor of one-half interest to Nathan P. Chaney, Potsdam, N. Y. Feather-renovator.....	May 4, 1875	181	60	7	771
167, 919	Manley, Jared S., Canton, Pa. Endless-chain-pump bucket.....	Sept. 21, 1875	504	160	8	493
160, 533	Mann, Charles S., and William Y. A. Boardman, assignor to New England Awl and Needle Company, West Medway, Mass. Machine for bending awls, needles, &c.....	Mar. 9, 1875	262	89	7	395
	Mann, Henry A., jr. (See Medbery, Mann & Drake.)					
165, 600	Mannebach, Julius, New York, N. Y. Miter-planing machine.....	July 13, 1875	456	139	8	80
167, 403	Manner, George C., Mott Haven, Conn. Piano-forte.....	Sept. 7, 1875	22	6	8	409
164, 465	Manning, Alfred C., Hartford, Conn. Sash-fastener.....	June 15, 1875	606	196	7	1031
164, 467	Same.....Ventilating-fastener for sashes.....	June 15, 1875	607	{ 196 } 197	7	1031
163, 021	Manning, Charles H., Washington, D. C. Tan-vat.....	May 11, 1875	282	91	7	792
165, 010	Manning, George A., Ilion, N. Y. Belt-coupling.....	June 29, 1875	1122	362	7	1115
161, 250	Manning, Ira, Philadelphia, Pa. Feed-wheel for sewing-machines.....	Mar. 23, 1875	940	306	7	502
	Manning, Joseph C., trustee. (See Peters, William, assignor.).....(Reissue.)					
161, 890	Manning, Walter H., Boston, Mass. Combined pie-plate and cutter.....	Apr. 13, 1875	276	93	7	620

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr. g.	Vol.	Page.
159, 832	Manny, Abram M., Rockford, Ill. Corn planter	Feb. 16, 1875	572	190	7	276
6, 381	Manny, John P., Rockford, Ill. Mowing-machine. (Reissue) ..	Apr. 13, 1875	500	{ 104 165	7	648
6, 382	Same..... Harvester	Apr. 13, 1875	502	{ 165 166	7	648
6, 383	Same..... same	Apr. 13, 1875	506	{ 166 167	7	648
17, 798	Same..... same	Apr. 10, 1875	.....	.....	7	565
166, 017	Same..... same	July 27, 1875	881	272	8	166
166, 018	Same..... same	July 27, 1875	882	{ 272 273	8	166
166, 019	Same..... Mowing-machine	July 27, 1875	883	273	8	166
168, 572	Manrow, William E., Goshen, Ind. Eave-trough hanger	Oct. 11, 1875	257	84	8	608
164, 651	Mansfield, Charles W., Braintree, Mass. Car-truck	June 22, 1875	777	254	7	1063
161, 532	Mansfield, Fielding, Saint Louis, Mo. Machine for boxing matches	Mar. 30, 1875	1226	{ 394 395	7	517
158, 851	Mansir, William H., Wakefield, Mass. Gun-cleaner	Jan. 19, 1875	480	161	7	106
	Manson, Albert L., et al. (See Sampson, William S., assignor.) ..					
	Manson, George W. (See Hallam & McKee, assignors)					
	Manton, Joseph P. (See Thurber, John G., jr., assignor.) ..					
6, 774	Manton, Joseph P., Providence, R. I. Windlass	Nov. 30, 1875	1324	418	8	942
169, 182	Same..... same	Oct. 26, 1875	842	275	8	707
166, 536	Manuel, David A., Napa, Cal. Gang-plow	Aug. 10, 1875	342	105	8	255
162, 836	Manvel, Garret, Rochester, N. Y. Roofing-tile	May 4, 1875	90	30	7	759
167, 920	Same..... Plane-cutter sharpener	Sept. 21, 1875	505	161	8	494
	Manville, C. M., et al. (See Johnson, John W., assignor.) ..					
	Marais, Ernest L. (See Durand & Marais.) ..					
	Marbach, Herman. (See Marbach, Robert and Herman.) ..					
166, 396	Marbach, Robert and Herman, Cleveland, Ohio. Sleigh-bell	Aug. 3, 1875	198	59	8	226
	Marble, Edwin W., et al. (See Mayo, Charles H., assignor) ..					
164, 195	Marble, George W., assignor of one-half interest to Adolph Shoeninger, Chicago, Ill. Standard for children's carriages	June 8, 1875	334	114	7	987
171, 923	Same..... Velocipede	Dec. 28, 1875	967	313	8	1103
171, 924	Same..... Waiter for game-tables	Dec. 28, 1875	968	313	8	1103
8, 389	March, Lucas J. Deerfield, assignor to John Russell Cutlery Company, Turner's Falls, Mass. Handle of table-knives	June 15, 1875	.....	.....	7	1013
	March, Thomas J. (See Brownback, March, Rogers & Towers) ..					
	Marchand, Charles E., et al. (See Gracey, Robert, assignor.) ..					
163, 089	Marchand, Henry E., Pittsburgh, Pa. Valve for steam and air brakes	May 11, 1875	345	112	7	800
163, 090	Same..... Valve-gear for steam-engines	May 11, 1875	346	113	7	800
165, 349	Same..... Steam-valve	July 6, 1875	189	56	8	35
165, 350	Same..... same	July 6, 1875	190	57	8	35
	Marcus, William N., et al. (See Shinn, John, assignor.) ..					
167, 108	Marcy, John J., assignor to Bridgeport Brass Company, Bridgeport, Conn. Lantern	Aug. 24, 1875	907	283	8	353
162, 759	Marcy, Lorenzo J., Philadelphia, Pa. Magic lantern	May 4, 1875	20	7, 8	7	749
163, 087	Same..... Lime-light apparatus for magic lanterns	May 11, 1875	342	{ 111 112	7	799
165, 242	Same..... Magic lantern	July 6, 1875	92	27, 28	8	21
170, 577	Margedant, William C., assignor to Bentel, Margedant & Co., Hamilton, Ohio. Band } sawing-machine	Nov. 30, 1875	1241	{ 391 392	8	931
170, 578	Same..... Scroll-sawing machine	Nov. 30, 1875	1246	{ 392 393	8	931
171, 397	Margedant, William C., Hamilton, Ohio, assignor to Bentel, Margedant & Co. Surface } planing machine	Dec. 21, 1875	727	{ 238 239	8	1062
	Marini, L. G. (See Montalbetti, Vincenzo, assignor.) ..					
160, 023	Marion, Frank, Tremont, Ill. Hay-loader	Feb. 23, 1875	770	254	7	309
160, 926	Maris, John M., Philadelphia, Pa. Jar for anatomical specimens	Mar. 16, 1875	631	205	7	452
159, 429	Maris, Thomas C., Marietta, Ohio. Quilting-frame	Feb. 2, 1875	169	58	7	2, 8
163, 388	Markel, Jacob J., Nankin, Ohio. Whip-socket	May 18, 1875	641	205	7	854
167, 109	Marker, Stephen A., assignor of one-half interest to Randolph Fraser, Indianapolis, Ind. Safety-loop for check-reins	Aug. 24, 1875	908	253	8	353
171, 150	Marker, Stephen A., Indianapolis, Ind. Coach-pad	Dec. 14, 1875	473	{ 154 155	8	1020
	Markham, D. Clinton. (See Markham, Homer C. and D. Clinton.) ..					
161, 533	Markham, Homer C. and D. Clinton, Lyon's Falls, N. Y. Mowing-machine	Mar. 30, 1875	1227	395	7	547
165, 679	Markley, Philemon, Canton, Ill. Washing-machine	July 20, 1875	546	167	8	108
167, 771	Markoe, Fredrick, Philadelphia, Pa. Balancing toy	Sept. 14, 1875	364	115	8	465
169, 459	Markrud, Halvor, Ettrick, Wis. Wagon-brake	Nov. 2, 1875	124	39	8	752
158, 956	Marks, John W., Sumner, Ill. Spring-equalizer	Jan. 19, 1875	583	194	7	119
169, 014	Same..... Tire-tightener	Oct. 19, 1875	607	219	8	674
164, 688	Marks, Louis, San Francisco, Cal. Door-securer	June 22, 1875	811	265	7	1068
168, 910	Same..... Carbureter	Oct. 19, 1875	575	189	8	662
171, 028	Same..... Gas-holder	Dec. 14, 1875	351	117	8	1004
164, 573	Marks, Marcus, New York, N. Y. Mask-cap	June 15, 1875	695	226	7	1044
166, 395	Same..... Cap	Aug. 3, 1875	197	59	8	226
164, 745	Marks, William D., Chattanooga, Tenn. Governor	June 22, 1875	863	281	7	1075
162, 837	Marland, Alfred, Pittsburgh, Pa. Manufacture of hexagonal nuts	May 4, 1875	91	30	7	759
162, 838	Marland, Alfred, and William J. Lewis, Pittsburgh, Pa. Machine for making box-nuts ..	May 4, 1875	92	30	7	759
162, 839	Same..... Machine for making plow-caps	May 4, 1875	93	31	7	759
	Marley, Henry A. (See Cline, William, jr., assignor.) ..					
159, 592	Marlin, John M., New Haven, Conn. Reversible firing-pin for breech-loading fire-arms ..	Feb. 9, 1875	327	112	7	239
166, 537	Marlin, John M., Willett, Pa. Car-coupling	Aug. 10, 1875	343	105	8	255
168, 037	Marotzki, Albert, Jersey City, N. J. Nail	Sept. 21, 1875	608	195	8	509
	Marquard, Charles F. (See Dougherty, George H., assignor.) ..					
170, 752	Marquis, Diedrich, New York, N. Y. Cigarette mouth-piece	Dec. 7, 1875	90	29	8	962
	Marr, William C. (See Maughlin & Marr.) ..					
	Marriott, Ambrose. (See Lamb, Joseph R., assignor.) ..					
168, 038	Marschalk, Charles, Dantzig, Prussia. Diver's lamp	Sept. 21, 1875	609	196	8	509
	Marsden, Harry. (See Blamires & Marsden.) ..					
159, 196	Marsden, Samuel M., Wilkesbarre, Pa. Wash-boiler	Jan. 26, 1875	824	271	7	159
	Marsh, Charles A. (See Bonfils, Paul, assignor.) ..					
6, 223	Marsh, Charles W. and William W., Sycamore, Ill. Harvester	Jan. 12, 1875	394	133	7	79
6, 224	Same..... same	Jan. 12, 1875	395	133	7	79
6, 329	Same..... same	Mar. 9, 1875	460	151	7	422
6, 330	Same..... same	Mar. 9, 1875	460	152	7	422

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 606	Marsh, Ephraim H., Osage Mission, Kans. Chinch-bug gatherer	Mar. 9, 1875	326	110	7	404
163, 022	Marsh, Frank F. and Arthur F. Thompson, Boston, Mass. Nursing apparatus	May 11, 1875	283	92	7	792
165, 351	Marsh, George, Marshall, Mich. Gate-hinge	July 6, 1875	191	57	8	35
167, 551	Marsh, Isaac R., and Ira Bell, Brasher Falls, N. Y. Cattle-stall	Sept. 7, 1875	150	46, 47	8	427
164, 574	Marsh, James P., Chicago, Ill. Exercising-machine or health-lift	June 15, 1875	696	226	7	1044
164, 926	Marsh, James S., Lewisburgh, Pa. Harvester-rake	June 29, 1875	1052	339	7	1106
	Marsh, Joseph W. (See Carpenter, Jesse, assignor.)					
168, 573	Marsh, Riverius, Flushing, N. Y. Chandelier	Oct. 11, 1875	258	84	8	608
161, 695	Marsh, Timothy D., and Franklin M. Crane, Jersey, Ohio. Locking device for machinery	Apr. 6, 1875	90	32	7	582
	Marsh, William W. (See Marsh, Charles W. and William W.)					
163, 597	Marsh, William W., Sycamore, Ill. Windmill	May 25, 1875	849	268	7	888
163, 598	Same.....Painting machine	May 25, 1875	850	268	7	889
163, 501	Marshall, Calvin, North Easton, Mass. Snow-plow	May 18, 1875	745	237	7	867
163, 693	Marshall, Charles G., assignor to Charles Noble, M. D., Charles Noble, and Francis P. Nicholson, Philadelphia, Pa. Grate for heating-stoves	Feb. 9, 1875	427	143	7	251
161, 974	Marshall, Charles K., Vicksburgh, Miss. Jack-screw	Apr. 13, 1875	347	117	7	628
161, 975	Same.....Spike	Apr. 13, 1875	348	117	7	629
	Marshall, George. (See Beach & Marshall.)					
169, 649	Marshall, Horace B., Kingston, assignor to George H. Allen, Ayer, Mass. Blackboard attachment	Nov. 9, 1875	328	104	8	785
	Marshall, John B. (See Hartley & Marshall.)					
	Marshall, Joseph C. (See Smith & Marshall.)					
171, 298	Marshall, Nathaniel, Plattsburgh, N. Y. Spinning-machine	Dec. 21, 1875	635	208	8	1050
	Marshall, Randolph F., et al. (See Milbiser, John L., assignor.)					
169, 927	Marshall, Randolph F., Liscomb, Iowa. Brick-kiln	Mar. 16, 1875	631	206	7	452
6, 451	Marshall, William C., New York, N. Y., assignor to Arthur A. Libby, Chicago, Ill. Process for preserving meat	May 25, 1875	1061	.....	7	917
6, 452	Same.....Apparatus for preserving meat	May 25, 1875	1062	335	7	917
164, 852	Marsland, Edward, Sing Sing, N. Y. Liquid-meter	June 22, 1875	960	311	7	1087
165, 011	Marsters, Enoch J., Stockton, Cal. Folding-table	June 29, 1875	1122	362	7	1115
168, 267	Marston, Thomas P., New York, N. Y., assignor to Philip Hake, Hoboken, N. J. Tag-fastener	Sept. 28, 1875	847	270	8	549
169, 650	Marston, Thomas P., New York, N. Y., assignor to Philip Hake. Tag-fastener	Nov. 9, 1875	329	104	8	786
	Martens, Marten. (See Bertelsen & Martens.)					
164, 747	Marthens, Walter F., Pittsburgh, Pa. Nut-lock	June 22, 1875	864	281	7	1075
163, 325	Martin, Alexander C., Hamilton, Ohio. Saw-handle	May 18, 1875	585	187	7	847
169, 561	Martin, Andrew J., assignor to P. P. Mast & Co., Springfield, Ohio. Feeding-mechanism for grain-drills	Nov. 2, 1875	221	72, 73	8	764
8, 333	Martin, Arthur, Paris, France, assignor to Roxbury Carpet Company, Boston, Mass. Carpet	May 18, 1875	.....	.....	7	837
170, 179	Martin, Benjamin G., New York, N. Y., assignor to the United States Power-Press Company. Power-press	Nov. 23, 1875	867	271	8	871
168, 512	Martin, Celestin, Verviers, Belgium. Wool-spinning machinery	Oct. 5, 1875	175	56	8	589
	Martin, Charles J. (See Simpson, Charles C., assignor.)					
169, 461	Martin, Edward G., Kankakee, Ill. End-gate	Nov. 2, 1875	127	40	8	752
	Martin, Edwin. (See Bird, Joseph C., assignor.)					
159, 593	Martin, Franklin J., Williamsport, Pa. Saw-burring tool	Feb. 9, 1875	338	112	7	239
	Martin, Frederick J. (See Reyburn & Martin.)					
168, 655	Martin, George B., and Julius A. Preston, New Haven, Conn. Coal-barge	Oct. 11, 1875	336	109	8	620
159, 430	Martin, George W., and James C. Moore, Brookston, Ind. Hay-elevator	Feb. 2, 1875	170	58	7	208
160, 534	Martin, Gratin, Lynn, assignor of one-half interest to Robert McIntyre, Everett, Mass. Tackle-block	Mar. 9, 1875	264	90	7	395
160, 214	Martin, Henry, Louisville, Ky. Umbrella	Feb. 23, 1875	932	306	7	332
	Martin, Henry M., et al. (See White, William H., assignor.)					
163, 323	Martin, Henry M., New York, N. Y. Manufacture of gas	May 18, 1875	580	{ 186 187 }	7	847
163, 324	Same.....Manufacture of gas and oil	May 18, 1875	582	{ 187 187 }	7	847
158, 853	Martin, Horace B., San Francisco, Cal. Mechanical calculator	Jan. 19, 1875	481	{ 161 162 }	7	106
161, 251	Martin, Jacob, Cairo, Ill. Machine for making barrels	Mar. 23, 1875	941	{ 306 307 }	7	502
	Martin, James. (See White, Martin V. B., assignor.)					
166, 619	Martin, James G. L., Eufaula, Ala. Lock for doors, &c	Aug. 10, 1875	415	128	8	266
166, 620	Same.....Lock for doors	Aug. 10, 1875	417	{ 128 129 }	8	266
165, 107	Martin, John F., assignor of one-half interest to Rand, McSherry & Co., Baltimore, Md. Extension-table	June 29, 1875	1207	388	7	1127
164, 746	Martin, Joseph T., New York, N. Y. Ice-breaking attachment for vessels	June 22, 1875	864	281	7	1075
166, 793	Martin, Joseph T., Newark, N. J. Ice-breaker	Aug. 17, 1875	692	182	8	300
	Martin, Josiah I. (See Cox, Charles H., assignor.)					
162, 084	Martin, Lucien A., San Francisco, Cal. Printer's type-case	Apr. 13, 1875	438	146	7	640
159, 694	Martin, Moritz, Bitterfeld, Prussia. Flour-dressing machine	Feb. 9, 1875	428	143	7	251
164, 689	Martin, Orin, Bloomfield, Iowa. Earth-boring apparatus	June 22, 1875	812	265	7	1068
168, 911	Martin, Samuel, Knobnoster, Mo. Brick-machine	Oct. 19, 1875	576	180	8	662
162, 397	Martin, Samuel B., San Francisco, Cal. Ice-machine	Apr. 20, 1875	753	245	7	687
161, 976	Martin, Samuel B., and John M. Beath, San Francisco, Cal. Ice manufacture and machine	Apr. 13, 1875	348	117	7	609
169, 913	Martin, Samuel W., assignor to P. P. Mast, Springfield, Ohio. Boiler-tube	Nov. 16, 1875	604	187	8	828
	Martin, Thomas J., et al. (See Pounds, William H., assignor.)					
158, 802	Martin, Thomas J., assignor of two-thirds interest to David W. Stuart, Philadelphia, Pa., and William E. Prall, Washington, D. C. Gas-carbureting machine	Jan. 19, 1875	436	146	7	100
8, 343	Martin, William, Philadelphia, Pa. Ornamental star	May 25, 1875	.....	.....	7	879
170, 483	Martin, William F., assignor of one-half interest to Samuel Gilbert, Philadelphia, Pa. Cut-off valve	Nov. 30, 1875	1157	364	8	919
163, 673	Martin, William H., Mobile, Ala. Toy gun	May 25, 1875	911	290	7	897
	Martin, William I. (See Hiler, Selah, assignor.)					
167, 848	Martin, William S., Baltimore, Md. Fog-signal	Sept. 21, 1875	447	142	8	485
170, 286	Martin, Wolfgang A., Pittsburgh, Pa. Composition for infusions and beverages	Nov. 23, 1875	962	.....	8	884
168, 404	Martinez, Dionisio M., Philadelphia, Pa. Sight for fire-arms	Oct. 5, 1875	76	27	8	576
162, 485	Marty, John M., La Crosse, Wis. Steam-engine	Apr. 27, 1875	858	276	7	708
	Marty, Vincent. (See Raveaud & Marty.)					
163, 088	Martyn, Henry, Boston, Mass. Sheet-metal box	May 11, 1875	344	112	7	800
163, 793	Same.....Die for forming sheet-metal	May 25, 1875	1012	321	7	910
167, 183	Same.....Composition for coating leather	Aug. 31, 1875	999	.....	8	313
170, 397	Martyn, William P., San Francisco, Cal. Potato-digger	Nov. 23, 1875	1052	330	8	896

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	Marvel, John A. (<i>See</i> Groff & Marvel.)					
	Marx, Ernest. (<i>See</i> Hartwick & Marx.)					
	Maschmeyer, George. (<i>See</i> Minderle & Maschmeyer.)					
170, 150	Mason, Alfred W. J., New Orleans, La. Condensing-saturator for bagasse	Nov. 23, 1875	869	271	8	871
170, 484	Same..... Evaporating-pan	Nov. 30, 1875	1158	365	8	919
163, 091	Mason, Arnold P., and George and Henry W. Chamberlin, assignors to George Chamberlin & Son, Olean, N. Y. Machine for pressing horse-collar pads.....	May 11, 1875	347	113	7	800
166, 121	Mason, Benjamin A., New York, N. Y. Machine for threading wood-screws.....	July 27, 1875	980	{ 302 } 303	8	180
170, 579	Mason, Henry H., Springfield, Vt. Clothes-pin	Nov. 30, 1875	1248	393	8	931
159, 106	Mason, Herbert N., and Orville P. Richardson, Attleborough, Mass.; said Richardson assignor to said Mason. Sleeve-button	Jan. 26, 1875	745	245	7	148
	Mason, James M., <i>et al.</i> (<i>See</i> Morrow, William F., assignor.)					
161, 252	Mason, Japheth, Taunton, Mass. Carding-machine	Mar. 23, 1875	944	308	7	503
	Mason, J. M., <i>et al.</i> (<i>See</i> Kacerovsky, Joseph, assignor.)					
169, 114	Mason, John B., Quincy, assignor to William H. L. Smith, Boston, Mass. Pulley or gear-wheel.....	Oct. 26, 1875	786	255	8	698
159, 197	Mason, John L., New Brunswick, N. J. Nursing-bottle.....	Jan. 26, 1875	825	272	7	159
164, 652	Same..... Smoke-stack	June 22, 1875	778	255	7	1063
164, 653	Mason, John L., New Brunswick, and Andrew and John M. Sinclair, Camden, assignors to John L. Mason, New Brunswick, N. J. Refrigerator.....	June 22, 1875	778	255	7	1063
166, 538	Mason, John R., Wilmington, Del. Chuck and centerer	Aug. 10, 1875	344	105	8	256
161, 804	Mason, Joshua, Paterson, N. J. Steam-radiator.....	Apr. 6, 1875	183	62	8	595
161, 803	Mason, Matthew B., assignor to self and Robert H. Hunt, Kansas City, Mo. Spark-arrester.....	Apr. 6, 1875	182	62	7	595
	Mason, Rodney, <i>et al.</i> (<i>See</i> Cochrane, William F., assignor.) (Reissue.)					
158, 957	Mason, William, assignor to Colt's Patent Fire-Arms Manufacturing Company, Hartford, Conn. Revolving fire-arm	Jan. 19, 1875	585	194	7	119
	Masse, Jacques. (<i>See</i> Bodel, Masse & Webster.)					
	Massecar, Levi. (<i>See</i> Yocom, John, assignor.)					
164, 316	Massey, Orren W., Macon, Ga. Cotton-gin	June 8, 1875	452	149	7	1002
167, 679	Same..... same	Sept. 14, 1875	277	87	8	452
171, 398	Massie, Isaac, Ironton, Ohio. Boot-jack	Dec. 21, 1875	728	239	8	1062
	Massie, Theodore G. (<i>See</i> Beall, Charles B., assignor.)					
	Massing, William. (<i>See</i> Miller, Charles H., assignor.)					
	Massing, William, <i>et al.</i> (<i>See</i> Miller, Charles H., assignor.)					
	Mast & Co., P. P. (<i>See</i> Martin, Andrew J., assignor.)					
158, 723	Mast, Peter, Waterville, Ohio. Horse hay-rake.....	Jan. 12, 1875	344	117	7	72
	Mast, P. P. (<i>See</i> Martin, Samuel W., assignor.)					
169, 715	Masterman, William H., San Leandro, Cal. Wheel-hub	Nov. 9, 1875	395	124	8	794
165, 108	Mastern, John, West Alexandria, Ohio. Harrow	June 29, 1875	1208	389	7	1127
159, 765	Masterson, Levi J., Philadelphia, Pa., assignor of one-third interest to John B. Ford, Washington, D. C. Conductor's alarm and registering hand-stamp	Feb. 16, 1875	510	171	7	268
159, 943	Masterson, Levi J., assignor of one-third interest to John Killpatrick, Philadelphia, Pa. Ticket-reel	Feb. 16, 1875	675	224	7	290
161, 891	Mather, Emmett, assignor to Frank Sturges & Co., Chicago, Ill. Dredge-box	Apr. 13, 1875	277	93	7	620
	Mather, John. (<i>See</i> Speir & Mather.)					
159, 944	Mathers, George C., Louisville, Ky. Curtain-fixtue	Feb. 16, 1875	676	224	7	290
169, 822	Same..... same	Nov. 9, 1875	507	159	8	808
160, 832	Mathes, John H., Elliot, Me. Mold for angle-bricks	Mar. 16, 1875	553	179	7	442
168, 036	Mathes, Philip, Easton, Pa. Reversible latch	Sept. 21, 1875	607	195	8	509
160, 024	Matheson, George, McKeesport, Pa., assignor to the National Tube Works Company, McKeesport, Pa. Roll for straightening and finishing tubes.....	Feb. 23, 1875	771	{ 254 } 255	7	310
164, 011	Matheson, George, assignor to self and National Tube Works Company, McKeesport, Pa. Device for drawing and welding tubing.....	June 1, 1875	144	51	7	950
169, 460	Matheson, George, McKeesport, Pa. Device for pushing tube-skelps into and through furnaces.....	Nov. 2, 1875	125	40	8	752
171, 234	Same..... Joint and coupling for tubes.....	Dec. 21, 1875	578	190	8	1042
170, 872	Mathews, John, assignor to Samuel B. Harvey, Lawrence, Mass. Chandelier.....	Dec. 7, 1875	191	66	8	976
166, 122	Mathews, Mathew, Saggert, Ireland. Machine for water-marking paper	July 27, 1875	983	363	8	180
165, 243	Mathewson, Ceylon E., and Harvey T. Mills, Franklin Corners, Pa. Machine for catching and destroying potato-bugs.....	July 6, 1875	94	28	8	22
161, 423	Mathewson, Sebra R., Gilroy, Cal. Steam-generator.....	Mar. 30, 1875	1121	362	7	533
158, 382	Mathewson, Thomas A., Pawtucket, R. I. Bobbin-holder for spooling-machines.....	Jan. 5, 1875	27	9	7	12
159, 522	Same..... Tap for casks.....	Feb. 9, 1875	286	92	7	231
160, 058	Same..... Spooling-machine	Feb. 23, 1875	801	{ 263 } 264	7	314
	Mathies, Robert H. (<i>See</i> McKay & Mathies.) (Reissue.)					
168, 165	Mathieson, James W., Brooklyn, N. Y., assignor to Sarah Hardick, John Ryer, and Abraham A. Van Hoesen, executors of Charles B. Hardick, deceased. Governor for engines.....	Sept. 22, 1875	760	240	8	537
163, 934	Matsinger, Maurice H., Philadelphia, Pa. Door-check.....	May 4, 1875	182	60	7	771
	Matson, Enos C. (<i>See</i> Patterson, Thomas, assignor.)					
162, 398	Matteson, Elisha, assignor of one-half interest to Otis G. Bailey and Thomas H. Brown- ing, Norwich, Conn. Fire-escape.....	Apr. 20, 1875	755	245	7	687
	Matteson, James A. (<i>See</i> Woodward, Gillman, assignor.)					
159, 034	Matteson, James A., Johnston, R. I. Bolster for spinning-frames.....	Jan. 26, 1875	682	224	7	159
159, 695	Matteson, Leland and William, Rochester, Mich. Car-coupling.....	Feb. 9, 1875	429	143	7	252
	Matteson, William. (<i>See</i> Matteson, Leland and William.)					
	Matthewman, John. (<i>See</i> Johnson & Nettleton, assignors.)					
	Matthews & Co., John. (<i>See</i> Clinton, Henry E., assignor.)					
	Matthews, Charles G. (<i>See</i> Arrants, John B., assignor.)					
170, 679	Matthews, Cyrus W., Jacksonville, Ill. Rail-holder	Dec. 7, 1875	24	8	8	954
167, 552	Matthews, Elias E., Muncie, Ind. Corn-planter.....	Sept. 7, 1875	152	47	8	427
159, 431	Matthews, John, New York, N. Y. Soda-fountain	Feb. 2, 1875	171	58	7	208
159, 432	Same..... Fountain for soda-water.....	Feb. 2, 1875	172	59	7	208
159, 433	Same..... Vessel for containing gases and liquids under pressure.....	Feb. 2, 1875	173	59	7	208
168, 268	Same..... Manufacture of beer and ale.....	Sept. 28, 1875	848	.....	8	549
168, 269	Same..... Aerated sea-water.....	Sept. 28, 1875	849	.....	8	549
	Matthews, Lee B. (<i>See</i> Berney, Franklin P., assignor.)					
170, 634	Matthiessen, Conrad H., Odell, Ill. Open thill	Nov. 30, 1875	1302	411	8	938
	Matthiessen, F. O. (<i>See</i> Dinkel, George, assignor.)					
	Matthiessen, F. O., <i>et al.</i> (<i>See</i> Langen, Eugen, assignor.)					
6, 378	Matthiessen, Franz O., New York, N. Y. Refining sugar	Apr. 13, 1875	497		7	648
6, 413	Same..... Process of manufacturing hard sugar.....	May 4, 1875	247		7	780

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160, 928	Matthiessen, Franz O., New York, N. Y. Refining sugar.	Mar. 16, 1875	632		7	453
161, 253	Matthiessen, Franz O., Jersey City, N. J. Retort for burning or revivifying charcoal.	Mar. 23, 1875	945	308	7	503
161, 424	Same..... Manufacturing hard sugar.	Mar. 30, 1875	1122	.....	7	533
162, 242	Matthiessen, Franz O., New York, N. Y. Refining sugar.	Apr. 20, 1875	606	.....	7	669
162, 213	Same..... Process of refining sugar.	Apr. 20, 1875	607	.....	7	669
162, 244	Same..... same	Apr. 20, 1875	607	.....	7	669
162, 245	Same..... same	Apr. 20, 1875	608	.....	7	669
163, 092	Same..... Apparatus for molding and liquoring sugar.	May 11, 1875	348	113	7	800
163, 093	Same..... Apparatus for refining sugar.	May 11, 1875	349	114	7	800
163, 094	Same..... same	May 11, 1875	350	114	7	800
166, 999	Matthiessen, Franz O., Irvington, N. Y. Centrifugal machine in sugar-manufacture.	Aug. 24, 1875	804	249	8	338
167, 000	Same..... same	Aug. 24, 1875	805	250	8	338
167, 001	Same..... same	Aug. 24, 1875	806	250	8	339
169, 823	Same..... Process of refining sugar.	Nov. 9, 1875	508	.....	8	808
162, 246	Mattison, Charles Z., Saint Louis, Mo. Spinning-machine.	Apr. 20, 1875	608	108	7	669
	Mattison, Seth A. (See Drake, Chester T., assignor.)					
165, 424	Mattison, William E., assignor to William E. Mattison and Edwin Galick, New Brunswick, N. J. Safety-seat for harvesters.	July 13, 1875	292	87	8	55
159, 275	Mattison, Morris, New York, N. Y. Hook.	Feb. 2, 1875	29	10	7	188
158, 383	Maughlin, Jos. S., and William C. Marr, Onawa, Iowa. Combined washing and wringing machine.	Jan. 5, 1875	27	9	7	12
167, 773	Maule, Francis L., Philadelphia, Pa. Pipe-cutter.	Sept. 14, 1875	366	116	8	465
165, 501	Maurer, Andrew, Evansville, Ind. Corn-broom.	July 13, 1875	457	139	8	80
162, 270	Maus, Charles, Danville, Pa. Car-coupling.	Sept. 28, 1875	850	270	8	549
164, 383	Maus, Wendell, Cincinnati, Ohio. Extension-table.	June 15, 1875	529	174	7	1022
	Mawhinney, Hugh H. (See Wiggins, John E., assignor.) (Reissue.)					
	Maxey, Sanford N., et al. (See Buffum, Albion K. P., assignor.) (Reissue.)					
162, 840	Maxfield, Charles A., New York, N. Y. Paper-feeding apparatus.	May 4, 1875	94	31	7	759
170, 485	Same..... Combined fire and burglar alarm.	Nov. 30, 1875	1159	365	8	920
162, 400	Maxheimer, John, Brooklyn, N. Y. Bird cage.	Apr. 20, 1875	756	246	7	687
	Maxim Gas Machine Company. (See Maxim, Hiram S., assignor.)					
160, 215	Maxim, Hiram S., Brooklyn, N. Y. Feed-water heater.	Feb. 23, 1875	933	306	7	333
160, 216	Maxim, Hiram S., Brooklyn, assignor to the Maxim Gas Machine Company of New York, N. Y. Apparatus for manufacturing illuminating-gas from liquid hydrocarbon.	Feb. 23, 1875	934	{ 306 } 307	{ 7 }	333
161, 621	Maxim, Hiram S., assignor of one-half interest to Alonzo T. Welch, Brooklyn, N. Y. Liquid meter.	Apr. 6, 1875	28	11	7	573
165, 744	Same..... Engine-governor.	July 20, 1875	601	185	8	116
162, 399	Maxson, Erwin W., Nicholson, Pa. Washing-machine.	Apr. 20, 1875	756	245	7	687
170, 635	Maxson, John, assignor to self, Morgan Maxson, and William D. Hunt, Scott, N. Y. Razor-strop.	Nov. 30, 1875	1302	411	8	939
	Maxson, Morgan, et al. (See Maxson, John, assignor.)					
167, 404	Maxwell, George H., and James B. Peaster, Delhi, N. Y. Extension-table slide.	Sept. 7, 1875	23	7	8	410
	Maxwell, James R. (See Cope & Maxwell.)					
162, 180	Maxwell, James R., Hamilton and Charles A. Scott, Cincinnati, Ohio; said Maxwell assignor to said Scott. Clamping device.	Apr. 20, 1875	548	180	7	662
161, 137	Maxwell-Lyte, Faruham, Paris, France. Process of manufacturing ammonia.	Mar. 23, 1875	835	.....	7	488
159, 945	Maxwell, Samuel F., Clifton, W. Va. Manufacture of nail-kegs.	Feb. 16, 1875	677	224	8	290
	May & Withey. (See Winslow, James H., assignor.)					
	May, Charles. (See Seidler, George N., assignor.)					
6, 337	May, John M., Cedar Rapids, Iowa, assignor to Louis M. and Moses Rumsey, Saint Louis, Mo. Drill for well-boring.	Mar. 16, 1875	690	227	7	462
168, 574	May, John M., Cedar Rapids, Iowa. Windmill.	Oct. 11, 1875	259	84, 85	8	608
	May, Lyman A., et al. (See Smith, Aaron F., assignor.) (Reissue.)					
161, 805	May, Richard C., Sacramento, Cal. Brush and mop-holding device.	Apr. 6, 1875	184	62	7	595
	Mayall Power Printing Press Company. (See Mayall & Hartnett, assignors.)					
6, 545	Mayall, Thomas J., Boston, Mass. Process for the manufacture of india-rubber hose.	July 13, 1875	519	.....	8	88
159, 696	Mayall, Thomas J., and Richard W. Hartnett, Boston, Mass., assignors to Mayall Power Printing Press Company, New York, N. Y. Stretcher for stereotype-matrices.	Feb. 9, 1875	429	143	7	252
159, 946	Same..... Machine for shaving the backs of curved stereotype-plates.	Feb. 16, 1875	677	225	7	290
159, 947	Same..... Delivering apparatus for printing-presses.	Feb. 16, 1875	679	225	7	290
	Mayer, Bernhard. (See Mayer, Loewenstein & Mayer.)					
158, 854	Mayer, Esrom and William B., Freeport, Ill. Boiler for heating purposes.	Jan. 19, 1875	483	162	7	107
171, 029	Mayer, George H., jr., Shamokin, Pa. Railway-rail.	Dec. 14, 1875	352	117	8	1005
167, 348	Mayer, John, Buffalo, N. Y. Lamp.	Aug. 31, 1875	1140	358	8	393
161, 139	Mayer, Moritz, New York, N. Y. Compound for scouring white goods.	Mar. 23, 1875	837	.....	7	488
160, 607	Mayer, Salomon, New York, N. Y. Apparatus for cutting goods on bias.	Mar. 9, 1875	327	110	7	404
162, 841	Same..... Apparatus for cutting goods bias.	May 4, 1875	95	31	7	759
	Mayer, Samuel B. (See Jaynes, John Q., assignor.)					
169, 714	Mayer, Siegfried W., Leopold Loewenstein, and Bernhard Mayer, New York, N. Y. Composition for varnish.	Nov. 9, 1875	395	.....	8	794
8, 494	Mayer, William, Brooklyn, N. Y. Leaf of albums.	July 20, 1875	.....	.....	8	95
	Mayer, William B. (See Mayer, Esrom and William B.)					
167, 184	Mayes, Louis C., and James S. Murphy, Piney Creek, Pa. Car-coupling.	Aug. 31, 1875	1000	311	8	373
164, 012	Mayfield, William D., Fort Worth, Tex. Smoothing and fluting iron.	June 1, 1875	145	51, 52	7	951
163, 937	Mayhew, David P., Detroit, Mich. Gas-regulator.	June 1, 1875	82	28	7	942
164, 384	Mayhew, Theophilus, Poughkeepsie, N. Y. Time-recording instrument.	June 15, 1875	529	174	7	1022
	Maynard, C. G., et al. (See Schoonover, James S., assignor.)					
167, 849	Maynard, Charles A., Saint Louis, Mo. Fire-kindler.	Sept. 21, 1875	447	142	8	485
171, 235	Maynard, Ezra, North Washington, Ohio. Whiffletree-hook.	Dec. 21, 1875	578	190	8	1042
165, 602	Maynard, George C., Washington, D. C. Circuit for electric alarms.	July 13, 1875	458	139	8	80
160, 109	Maynard, William C., Binghamton, N. Y. Attachment of mainsprings to arbors.	Feb. 23, 1875	842	277	7	320
6, 317	Mayo, Charles H., assignor, by mesne assignments, to self, Edward Gove, and Edwin W. Marble, Bath, Me. Sawing-machine.	Mar. 2, 1875	231	79	7	382
	Mayo, Israel C. (See Davis, Frank E., assignor.)					
	Same..... (See Dowling, Thomas, assignor.)					
167, 772	Mayo, Matthias C., assignor to J. Gardner Weld, Boston, Mass. Carpenter's plane.	Sept. 14, 1875	364	116	8	468
161, 138	Mayo, William H., Menasha, Wis. Clothes-pin.	Mar. 23, 1875	836	272	7	488
6, 302	Mayor, Thomas, Providence, R. I. Roving-frame.	Feb. 23, 1875	965	318	7	338
165, 352	Same..... Speeder.	July 6, 1875	192	57	8	35
164, 407	Maze, Joseph A., Owingsville, Ky. Horse-detacher.	June 15, 1875	608	197	7	1031
165, 745	McAleer, George, Worcester, Mass. Folding rocking-chair.	July 20, 1875	602	185	8	116
166, 123	Same..... same.	July 27, 1875	924	304	8	120

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169, 015	McAleer, George, Worcester, Mass. Folding chair.....	Oct. 19, 1875	668	219	8	675
169, 016	Same..... same.....	Oct. 19, 1875	669	220	8	675
170, 873	McAleer, Philip, Washington, D. C. Paper-perforating machine.....	Dec. 7, 1875	192	66	8	976
171, 030	McAllister, William, Lawrence, Mass. Fire-escape.....	Dec. 14, 1875	352	117	8	1005
	McAnerney, James. (See Freeman, Barton, assignor.)					
161, 048	McArdle, James, assignor of one-half interest to Alvin C. Hamilton, Winona, Minn. Sod-cutter.....	Mar. 23, 1875	745	245	7	477
160, 110	McAuliffe, John, New York, N. Y. Method of softening umbrella-ribs.....	Feb. 23, 1875	843	277	7	320
170, 680	McBarnard, William, Clarksville, Iowa. Pump.....	Dec. 7, 1875	25	8	8	954
170, 874	McBean, John, Chicago, Ill. Stone pavement.....	Dec. 7, 1875	192	66	8	976
166, 397	McBride, Thomas, Philadelphia, Pa. Hydraulic car-brake.....	Aug. 3, 1875	198	59	8	227
169, 183	McBryde, Daniel S., Good Hope, Miss. Cotton-press.....	Oct. 26, 1875	843	275	8	707
	McBurney, Maria, administratrix. (See McBurney, William H.)					
164, 749	McBurney, William H., deceased, by Maria McBurney, administratrix, Sacramento, Cal. Hay, cotton, and wool press.....	June 22, 1875	865	{ 281 282 }	{ 7 }	1075
	McCabe, Bernard J. (See Lord & McCabe.)					
164, 014	McCabe, James, Woodbury, Tenn. Reversible plow.....	June 1, 1875	146	52	7	951
161, 425	McCabe, Thomas, Ottawa, Canada. Hose-carriage.....	Mar. 30, 1875	1123	{ 362 363 }	{ 7 }	532
	McCadden, Thomas P. (See Steel & McCadden.)					
170, 681	McCaffery, Thomas, San Francisco, Cal. Thill-coupling.....	Dec. 7, 1875	26	8	8	954
170, 007	McCaffrey, John, jr., assignor of one-third interest to Samuel M. Steadman, Lawrence, Mass. Stop-motion fork for looms.....	Nov. 16, 1875	681	214	8	839
162, 401	McCahan, George L., Baltimore, Md. Steam-engine governor.....	Apr. 20, 1875	757	246	7	687
168, 760	Same..... Feed-water heater.....	Oct. 11, 1875	425	139	8	633
160, 535	McCall, Abijah, Saratoga, and James T. Watkins and Jasper S. Scott, Santa Clara, Cal. Road-scraper.....	Mar. 9, 1875	265	90	7	395
161, 622	McCall, Charles H. and James H., Morristown, Ohio. Sheep-shearing chair.....	Apr. 6, 1875	29	12	7	573
162, 842	Same..... Device to protect workmen from water while washing sheep.....	May 4, 1875	96	31	7	759
	McCall, James H. (See McCall, Charles H. and James H.)					
164, 575	McCall, Mortimer, assignor of one-half interest to Job King, Buffalo, N. Y. Pencil-sharpener.....	June 15, 1875	697	227	7	1044
170, 095	McCall, William, San Francisco, Cal. Ore-roasting furnace.....	Nov. 16, 1875	765	242	8	850
	McCalla, James H. (See Collins & McCalla.)					
	McCallum, Alpheus, et al. (See Cass, James F., assignor.)					
	McCallum, Hugh. (See Heald, Alfred, assignor.)..... (Design.)					
	McCallum, Hugh, et al. (See Heald, Alfred, assignor.)..... (Design.)					
	McCallum, James, et al. (See Cass, James F., assignor.)					
	McCallum, William. (See Heald, Alfred, assignor.)..... (Design.)					
	McCallum, William, et al. (See Heald, Alfred, assignor.)..... (Design.)					
	McCallum, William A., et al. (See Dickerson, Samuel H., assignor.)					
	McCambridge, Richard. (See Moore, George R., assignor.)					
	McCamish, Albert. (See Taylor & McCamish.)					
	McCann, Charles. (See Hellen, William F., assignor.)					
161, 696	McCarter, James, Frankfort, Ind. Tongue-support for vehicles.....	Apr. 6, 1875	91	32	7	582
161, 345	McCarty, Harry C., and Edward Glenn, Renovo, Pa. Freight-car door.....	Mar. 30, 1875	1045	340	7	524
170, 636	McCarty, Michael, Pueblo, Colo. Portable hay-press.....	Nov. 30, 1875	1303	411	8	939
158, 645	McCarty, Peter, Fairfield, Iowa. Railway-rail-joint fastening.....	Jan. 12, 1875	277	93	7	63
162, 086	McCauley, George W., Pleasant Plains, Ark., and William L. Crowson, Memphis, Tenn. Cotton-cleaner.....	Apr. 13, 1875	440	146	7	641
162, 181	McCauley, Reuben A., Baltimore, Md. Pump.....	Apr. 20, 1875	549	180	7	662
163, 095	Same..... Sewage apparatus.....	May 11, 1875	351	{ 114 115 }	{ 7 }	801
171, 577	McCausland, John, Providence, R. I. Paper cop-tube.....	Dec. 28, 1875	908	297	8	1096
164, 196	McCausland, William I., Louisville, Ky. Fluting and polishing iron.....	June 8, 1875	324	114	7	987
161, 806	McChesney, Martin H., Pontiac, Mich. Key-board for musical instruments.....	Apr. 6, 1875	185	63	7	595
	McClain, Edwin C. (See McEy & McClain.)					
166, 881	McClain, Edwin C., Bloomington, Ill. Ironing-table.....	Aug. 17, 1875	677	210	8	312
165, 012	McClarty, John, Racine, Wis. Apparatus for manufacturing illuminating-gas from petroleum.....	June 29, 1875	1123	362	7	1115
160, 111	McClagherty, William H., Seguin, Tex. Cotton scraper and chopper.....	Feb. 23, 1875	843	278	7	320
162, 844	McClean, Oscar R., New Orleans, La. Bale-tie.....	May 4, 1875	98	32	7	760
	McCleary, James S. (See Humphreys & McCleary.)					
169, 365	McClellan, James M., Philadelphia, Pa. Wire fence.....	Nov. 2, 1875	45	13	8	741
161, 346	McClelland, Robert W., Cerro Gordo, Ill. Wagon-body.....	Mar. 30, 1875	1046	340	7	524
161, 347	Same..... Wagon-standard.....	Mar. 30, 1875	1047	341	7	524
161, 348	Same..... Fifth-wheel for carriages.....	Mar. 30, 1875	1047	341	7	524
162, 670	Same..... Body-loop.....	Apr. 27, 1875	1090	326	7	728
161, 623	McClelland, William, sr., Fowler, Ill. Draft-equalizer.....	Apr. 6, 1875	30	12	7	573
	McClenathan, Martin. (See Webster, Dorr & McClenathan.)					
163, 599	McClevy, Smith, Chicago, Ill. Swing.....	May 25, 1875	852	269	7	869
	McClintock, James R. (See Lee, Archibald K., assignor.)					
163, 222	McClintock, James R., New Orleans, La. Composition for paving and roofing.....	May 11, 1875	467	.....	7	815
163, 223	Same..... same.....	May 11, 1875	467	.....	7	815
165, 603	McClintock, William A., Pittsfield, Ill. Seed-drill.....	July 13, 1875	459	140	8	80
161, 534	McCloskey, John, New York, assignor of one-third interest to Deborah C. Folk, Brooklyn, N. Y. Sewing-machine for stitching button-holes, &c.....	Mar. 30, 1875	1228	{ 395 396 }	{ 7 }	547
168, 337	McCloskey, John, New York, N. Y. Mechanical movement.....	Oct. 5, 1875	18	7	8	567
168, 575	Same..... same.....	Oct. 11, 1875	260	85	8	608
161, 349	McClosky, John, Cornersville, Ind. Rotary blower.....	Mar. 30, 1875	1048	341	7	524
	McCloud, William. (See Moore & McCloud.)					
169, 462	McClung, Richard L., La Fayette, Tex. Cotton scraper, chopper, and cultivator.....	Nov. 2, 1875	128	40	8	752
167, 774	McClure, Jacob W., assignor of one-half interest to William H. Garrett, Saint Louis, Mo. Churn.....	Sept. 14, 1875	367	116	8	465
158, 597	McClure, Pattison F., Junction City, Kans. Car-coupling.....	Jan. 12, 1875	234	79	7	57
160, 833	McClure, Robert G., Jamestown, Ohio. Wardrobe-bedstead.....	Mar. 16, 1875	554	179	7	442
169, 651	McClurg, Joseph, Pittsburgh, Pa. Desk.....	Nov. 9, 1875	330	104	8	786
165, 847	McClymonds, James H., Winchester, Ky. Door-check.....	July 20, 1875	709	216	8	130
170, 875	Same..... Machine for setting carriage-bows.....	Dec. 7, 1875	193	66	8	976
160, 608	McColl, Mary J., Hobokus, N. J. Manufacture of sheet-wax for flowers.....	Mar. 9, 1875	327	110	7	405
	McCollum, John, deceased. (See Parr, Joseph, assignor.)					
	McCollum, Lydia A., executrix. (See Parr, Joseph, assignor.)					
	McCollum, Walter. (See Curtis, Mosely S., assignor.)					
	McComb, J. J., Liverpool, England. Iron tie for cotton-bales..... (Extension)	Jan. 28, 1875	.....	.....	7	303
161, 697	McConaughy, Thomas B., Newark, Del. Ore-separator.....	Apr. 6, 1875	92	32	7	582

Alphabetical list of patentees for the year 1875—Continued.

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168, 039	McConnell, George, Oconto, Wis. Sleigh.....	Sept. 21, 1875	610	196	8	509
	McConnell, George W. (See Thompson, Harry, assignor.)					
	McConnell, James H. (See Tanner, William, assignor.)					
160, 217	McConnell, Robert, Pittsburgh, Pa. Scroll-sawing machine.....	Feb. 23, 1875	935	307	7	333
162, 486	McConway, William, assignor to self, John J. Torley, John Heath, and William Dill-worthy, jr., Pittsburgh, Pa. Fastening for hasps.....	Apr. 27, 1875	859	276	7	708
	McCook, Alexander M. (See Chambers & McCook.)					
	McCord, B. R., et al. (See Donnellan, Charles E., assignor.)					
170, 008	McCormack, James, Greenfield, Ohio, and Sylvester R. Kelly, Baltimore, Md. Steam-pump.....	Nov. 16, 1875	682	214	8	839
	McCormick, C. H., et al. (See Baker, William R., assignor.)					
164, 013	McCormick, James, Peoria, Ill. Corn-harrow.....	June 1, 1875	146	52	7	951
171, 339	McCormick, James F., Philadelphia, Pa. Mechanical movement.....	Dec. 21, 1875	729	239	8	1062
171, 299	McCormick, John R., Georgetown, Tex. Gang-plow.....	Dec. 21, 1875	637	209	8	1050
164, 015	McCormick, Joseph J., assignor to Bentley C. Bibb, Baltimore, Md. Magazine fire-place stove.....	June 1, 1875	147	53	7	951
170, 388	McCormick, Leander J. Harvester.....	Nov. 23, 1875	1053	{ 330 331 }	{ 8 8 }	{ 897 897 }
	McCormick, L. J., et al. (See Baker, William R., assignor.)					
166, 020	McCormick, Robert H., and William R. Baker, Chicago, Ill.; said Baker assignor to said McCormick. Wrench.....	July 27, 1875	884	273	8	166
168, 271	McCormick, Robert H., Chicago, Ill. Harvester.....	Sept. 28, 1875	851	271	8	549
168, 040	McCormick, William H., assignor to self and George W. Seitz, Muncie, Ind. Combined gate-hinge and closing-rod.....	Sept. 21, 1875	611	196	8	509
162, 402	McCoy, Eugene, and Oliver M. Harper, Owatonna, Minn. Pump.....	Apr. 20, 1875	758	246	7	687
	McCoy, John. (See Roberts, Mathew H., assignor.)					
165, 746	McCoy, William H., Des Moines, Iowa. Sun-dial.....	July 20, 1875	603	185	8	339
	McCray, A. F. (See Cox, Daniel, assignor.)					
167, 002	McCray, William, Black Oak, Mo. Combined harrow and cultivator.....	Aug. 24, 1875	807	251	8	339
158, 958	McCrosen, William, assignor to S. C. Bachman, Philadelphia, Pa. Combined drill, countersink, and planer.....	Jan. 19, 1875	586	194	7	119
	Same. Bit for boring metals.....	Feb. 16, 1875	681	225	7	290
159, 948	McCrum, John S., et al. (See Dewitt, James, assignor.)					
	McCulloch, David D. L. (See Cole & McCulloch.)					
160, 112	McCulloch, James, Kingston, Pa. Dumping-cage for elevators.....	Feb. 23, 1875	815	278	7	320
	McCulloch, John. (See Linsley, McCulloch & Clement.)					
158, 428	McCullough, James, Aspinwall, Nebr. Ruffler.....	Jan. 5, 1875	65	23	7	18
162, 085	McCullough, Lewis H., Richmond, Ind., and Charles Anderson, Cincinnati, Ohio, assignors to National Fire Alarm Company, Richmond, Ind. Fire-alarm box.....	Apr. 13, 1875	439	146	7	640
158, 596	McCune, Joseph B., assignor to Richard M. Wantzer, Hamilton, Canada. Sewing-machine.....	Jan. 12, 1875	234	79	7	57
169, 716	McCune, William H., assignor to Pittsburgh Steel Casting Company, Pittsburgh, Pa. Plow.....	Nov. 9, 1875	396	124	8	794
158, 724	McCurdy, David, Ottawa, Ohio. Car-coupling.....	Jan. 12, 1875	345	117	7	72
162, 843	McCurdy, James, Lock Haven, Pa. Pantaloon-block.....	May 4, 1875	97	32	7	700
158, 855	McCurdy, John, Smicksburgh, Pa. Axle for vehicles.....	Jan. 19, 1875	484	162	7	157
164, 649	McDaniel, Delaplaine, Philadelphia, Pa. Roofing material.....	June 22, 1875	866	282	7	1075
164, 853	McDaniel, Francis, Philadelphia, Pa. Fountain-brush.....	June 22, 1875	961	311	7	187
159, 949	McDermott, Charles, Oakland Station, Ark. Iron wedge.....	Feb. 16, 1875	682	226	7	290
165, 244	McDermott, Edward, Minneapolis, Minn. Pump.....	July 6, 1875	95	28	8	22
163, 246	McDermott, Martin, Galveston, Tex. Pile-driver.....	May 11, 1875	469	152	7	816
	McDevitt, Bernard. (See Lake & McDevitt.)					
160, 341	McDevitt, Martin, Hampton, Va. Fruit-gatherer.....	Mar. 2, 1875	76	27	7	359
162, 671	Same. Thill-coupling.....	Apr. 27, 1875	1020	327	7	729
168, 166	McDonald, Alexander, Halifax, Canada. Pipe-tongs.....	Sept. 28, 1875	761	241	8	537
162, 845	McDonald, Allan L., Gloucester, Mass. Trawl-roller.....	May 4, 1875	99	32	7	760
167, 185	McDonald, Andrew Y., Dubuque, Iowa. Fence-post.....	Aug. 31, 1875	1060	311	8	373
	McDonald, Hiram, Shortsville, N. Y. Wood-bending machine..... (Extension)	Jan. 21, 1875			7	222
	McDonald, Hugh, et al. (See Morgan, Theophilus D., assignor.)					
158, 429	McDonald, Lucius F., Belfast, Me. Garter.....	Jan. 5, 1875	66	23	7	18
162, 935	McDonald, Thomas E., New Brunswick, N. J. Wringer.....	May 4, 1875	183	60	7	771
	McDonel, George H. (See Thornton, McDonel & Hale.)					
163, 389	McDonough, James W., Chicago, Ill. Reclining-chair.....	May 18, 1875	641	205	7	854
165, 454	McDonough, Thomas, assignor of one-fourth interest to E. K. Walbridge, Ottawa, Ill. Harvester-dropper.....	July 13, 1875	326	95	8	60
166, 213	McDonough, Thomas, Mont Clair, assignor of two-thirds interest to William F. Dodge, and George R. Dunn, Newark, N. J. Car-starter.....	Aug. 3, 1875	27	9	8	203
	McDougall, Lachan H. (See Richey & McDougall.)					
166, 933	McDowell, Alex., Lawrence, Mass. Heel-trimming machinery.....	Aug. 24, 1875	736	228	8	329
158, 725	McDowell, Malcom, Ravenswood, Ill. Metal plow-beam.....	Jan. 12, 1875	346	117	7	72
164, 854	McDowell, Philip L., Kenton, Ohio. Machine for cutting fats for rendering.....	June 22, 1875	962	{ 311 312 }	{ 7 7 }	{ 1087 1087 }
	McDowell, Samson. (See Redfern, Alfred, assignor.)..... (Design.)					
8, 216	McDowell, Samson, Philadelphia, Pa. Carpet..... (Design.)	Mar. 23, 1875			7	466
162, 487	McDowell, William L., Philadelphia, Pa. Grate for ranges and stoves.....	Apr. 27, 1875	860	276	7	708
170, 876	Same. Stand for water-coolers, &c.....	Dec. 7, 1875	194	67	8	977
171, 151	McElney, William B., assignor of one-half interest to Beccher Manufacturing Company, West Meriden, Conn. Die for forging carriage-shaft eyes.....	Dec. 14, 1875	474	155	8	1021
160, 450	McElrath, Andrew, New York, N. Y. Shoe-brush.....	Mar. 2, 1875	176	61	7	373
171, 400	McElroy, John H., and Robert Young, Pittsburgh, Pa. Method of treating natural gas.....	Dec. 21, 1875	729		8	1062
164, 855	McElroy, Josiah B., Charlestown, W. Va. Belt-fastener.....	June 22, 1875	965	312	7	1088
167, 680	McEntire, Richard S., Burlington, Iowa. Sofa-bedstead.....	Sept. 14, 1875	277	87	8	452
160, 273	McEwan, George, and Charles O. Gibson, Derby Line, Vt. Milk-cooler.....	Mar. 2, 1875	17	7	7	351
161, 624	McEwen, James, Chicago, Ill. Sewing-machine caster.....	Apr. 6, 1875	31	12	7	573
163, 224	McEy, Thomas F., Franklin, Ind. Door-sill.....	May 11, 1875	468	151	7	816
163, 225	McEy, Thomas F., and Edwin C. McClain, Franklin, Ind. Sad-iron.....	May 11, 1875	468	151	7	816
158, 959	McFadden, Catharine, Oswego, N. Y. Knitting-satchel.....	Jan. 19, 1875	587	195	7	119
164, 318	McFadden, Patrick, Philadelphia, Pa. Bridle-winker.....	June 8, 1875	454	150	7	1003
165, 848	Same. Cart-saddle.....	July 20, 1875	709	216	8	139
	McFadden, William C. (See Madden, Michael, assignor.)					
161, 254	McFarland, Nathaniel S., New York, N. Y. Coffee-pot.....	Mar. 23, 1875	946	308	7	503
163, 502	Same. Spout for coffee-pots.....	May 18, 1875	746	237	7	868
161, 555	McFarland, William, Trenton, N. J. Hot-air furnace.....	Mar. 30, 1875	1229	396	7	547
	McFarlane, James. (See Fatzinger, Alexander H., assignor.)					
	McFaul, William. (See Seddon & McFaul.)					

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170, 753	McGaffey, Ives W., Chicago, Ill. Nozzle for hose	Dec. 7, 1875	91	29	8	962
162, 488	McGahay, Henry, and James King, Cambridge, Mass. Curtain-fixture	Apr. 27, 1875	861	276	7	709
168, 761	McGann, Thomas F., Boston, Mass. Gas-shade supporter	Oct. 11, 1875	426	139	8	633
162, 672	McGarrah, Daniel E., Rosemond, Ill. Bale-band tightener	Apr. 27, 1875	1021	327	7	729
159, 594	McGarvey, Michael. (See Van Wormer & McGarvey)	(Design.)				
160, 113	McGavin, John, New York, N. Y. Grading apparatus	Feb. 9, 1875	339	112	7	239
	McGavin, John, New York, N. Y., assignor to Isaac S. Van Deusen, Passaic, N. J. Ap- paratus for stamping embroidery-patterns	Feb. 23, 1875	846	278	7	321
163, 600	McGee, J. L. (See Ewing, James M., assignor.)					
160, 929	McGeorge, Frank H., Corning, N. Y. Gas-burner	May 25, 1875	853	269	7	889
8, 258	McGhee, William T., Wheeling, Mo., assignor to self and James C. Gish and William W. Edgerton. Harrow	Mar. 16, 1875	633	207	7	453
8, 309	McGill, George W., New York, N. Y. Clip or fastener for suspending cards.. (Case A. Design)	Apr. 6, 1875			7	564
159, 595	Same..... same	May 4, 1875			7	742
162, 182	Same..... Corset-steel	Feb. 9, 1875	340	113	7	239
162, 183	Same..... Paper-fastener	Apr. 20, 1875	550	180	7	662
162, 184	Same..... Metallic paper-fastener	Apr. 20, 1875	550	180	7	662
162, 185	Same..... Metallic fastener	Apr. 20, 1875	551	181	7	662
160, 934	Same..... Suspending-ring or fastener	Apr. 20, 1875	552	181	7	662
	Same..... Pencil	Aug. 24, 1875	737	228	8	329
170, 069	McGill, James. (See Richmond, Ryan & McGill.)					
160, 834	McGill, John W., Brooklyn, N. Y. Metallic endless paper-fastener	Nov. 16, 1875	683	214	8	839
166, 794	McGill, William C., Washington, D. C. Sheet-metal box	Mar. 16, 1875	554	180	7	442
	Same..... Fare-box	Aug. 17, 1875	592	182	8	300
168, 762	McGillvary, William. (See Stevenson, William M., assignor.)					
168, 167	McGinnis, Leonidas H., Woodstock, Va. Harrow	Oct. 11, 1875	427	139	8	633
168, 041	McGlew, Patrick, Des Moines, Iowa. Whiffletree	Sept. 28, 1875	761	241	8	537
164, 319	McGlothlen, Charles L. (See McGlothlen, George H. and Charles L.)					
	McGlothlen, George H. and Charles L., Clariuda, Iowa. Car-coupling	Sept. 21, 1875	612	166	8	510
	McGookin, Dennis H., Philadelphia, Pa. Spike-machine	June 8, 1875	451	150	7	1003
165, 013	McGovern, George W. (See Cosby & McGovern.)					
164, 317	McGovern, Joseph, Modesto, Cal. Windmill	June 29, 1875	1124	363	7	1115
166, 285	McGowan, John, New York, N. Y. Skirt	June 8, 1875	453	149	7	10 2
167, 265	McGowan, Thomson, Meredith, Pa. Distillation of hydrocarbon oils	Aug. 3, 1875	94	29	8	212
	McGrann, Bernard, and John Solis, New York, N. Y. Combined cistern-valve and over- flow-pipe	Aug. 31, 1875	1067	333	8	382
6, 202	McGrath, Thomas F. (See Steventon & McGrath.)					
160, 933	McGraw, Henry, Detroit, Mich. Lubricator	(Reissue) ..	Jan. 5, 1875	184	64	7 35
6, 693	McGraw, William A., Baltimore, Md. Brush	Mar. 16, 1875	637	208	7	453
	McGregor, George, and George Voll, Cincinnati, Ohio, assignors, by mesne assignments, to Hopkins & Dickinson Manufacturing Company, New York, N. Y. Sash-lock. (Re- issue)	Oct. 11, 1875	485	158	8	641
170, 287	McGregor, John, Princeville, Ill. Corn-marker	Nov. 23, 1875	962	301	8	884
170, 096	McGregor, William H. (See Westcott & McGregor.)					
170, 682	McGrew, William H., and Charles A. Clark, Saint Louis, Mo. Self-closing pitcher	Nov. 16, 1875	766	243	8	850
160, 930	McGuire, Francis, Toronto, Canada. Boiler-feeder	Dec. 7, 1875	27		8	954
162, 403	McGuire, John, New Haven, Conn. Sewer-inlet trap	Mar. 16, 1875	634	207	7	453
171, 152	McGuire, Thomas D., Brooklyn, N. Y. Machinery for making cigar-molds	Apr. 20, 1875	759	246	7	687
159, 107	McHarg, John B., Rome, N. Y. Toy cartridge-exploder	Dec. 14, 1875	475	155	8	1021
163, 023	Same..... Toy gun	Jan. 26, 1875	745	245	7	148
168, 168	McHelm, James M., Carlisle, Ky. Ash-pan	May 11, 1875	283	92	7	792
165, 004	McHenry, John, Cincinnati, Ohio. Fire-place	Sept. 28, 1875	762	241	8	537
162, 404	McHugh, Hugh, New Bedford, Mass. Passe-partout base for gilding	July 13, 1875	459	140	8	80
161, 625	McInnes, John, Jersey City Heights, N. J. Liquid-measure	Apr. 20, 1875	759		7	687
168, 656	McInnes, John H., San Francisco, Cal. Slotted framing-square	Apr. 6, 1875	31	12	7	573
161, 140	McIntire, Richard B., East Boston, N. Y. Means for hanging rudders	Oct. 11, 1875	337	109	8	620
	McIntire, William C. (See Casilaer & McIntire.)	Mar. 23, 1875	837	273	7	488
	McIntosh, Charles. (See Nellis, James, assignor.)					
	McIntyre, John H., et al. (See Piehl, John F., assignor.)					
166, 541	McIntyre, Robert. (See Martin, Gratin, assignor.)					
161, 255	McKag, Merwin, and Walter J. Muncester, Cumberland, Md. Portable steam-engine	Aug. 10, 1875	345	106	8	256
	McKanna, Robert A., Ellison, Ill., assignor of two-thirds interest to John and George Dalton. Car-coupling	Mar. 23, 1875	946	308	7	503
	McKay, Angus, et al. (See McKervey, Hugh F., assignor.)					
	McKay, Gordon. (See Blake & McKay.)					
159, 339	McKay, Gordon, trustee. (See Dunham, Henry, jr., assignor)	(Reissue.)				
6, 535	McKay, Gordon, Cambridge, and Hadley P. Fairfield, Boston, Mass.; said Fairfield as- signor to said McKay. Machine for burnishing boots and shoes	Feb. 2, 1875	91	32	7	196
	McKay, Gordon, Cambridge, and Robert H. Mathies, Boston, Mass., assignor, by mesne assignments, to Gordon McKay, trustee. Sewing-machine	July 6, 1875	259	{ 77 78 79 }	8	43
162, 087	McKay, Gordon, Cambridge, Mass. Metallic fastening for the soles of boots and shoes	Apr. 13, 1875	440	147	7	641
166, 795	McKay, Gordon, Cambridge, Hadley P. Fairfield, Boston, and Charles W. Glidden, Lynn, assignors to James W. Brooks, trustee, Boston, Mass. Machine for attaching and trimming heels	Aug. 17, 1875	593	{ 183 184 }	8	300
167, 349	McKay, Gordon, Cambridge, Mass. Metallic strip for shoe-nails	Aug. 31, 1875	1141	359	8	393
169, 463	McKay, Gordon, Cambridge, and Hadley P. Fairfield, Boston, Mass. Machine for unit- ing the uppers and soles of boots and shoes	Nov. 2, 1875	128	41	8	752
171, 300	Same..... Boot and shoe nailing machine	Dec. 21, 1875	637	209	8	1050
163, 503	McKay, John, Newcastle-on-Tyne, England. Drilling apparatus	May 18, 1875	747	237	7	868
167, 003	McKay, William W., Ossian, Iowa. Automatic gate	Aug. 24, 1875	808	251	8	339
	McKee & Brothers. (See Reid, Peter W., assignor.)					
	McKee, James W. (See Hallam & McKee)	(Reissue.)				
171, 301	McKee, Joseph D. (See Byrom & Clewley, assignors.)					
162, 846	McKee, William J., Pittsburgh, Pa. Shoe-fastener	Dec. 21, 1875	639	209	8	1050
162, 513	McKeen, Jonathan L., Acworth, N. H. Road-scraper	May 4, 1875	99	32	7	760
	McKenna, William S., assignor of one-half interest to John C. Ridgway, Pittsburgh, Pa. Annealing-furnace	Oct. 5, 1875	176	57	8	589
162, 936	McKenney, Almeron, Berlin, Wis. Stump-extractor	May 4, 1875	184	61	7	771
162, 937	Same..... same	May 4, 1875	186	61	7	771

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167, 186	McKenney, James F., Amsterdam, N. Y. Steam-heater.....	Aug. 31, 1875	1001	311	8	373
167, 553	McKenney, Louis W., Jersey City, N. J. Propelling mechanism for canal-boats.....	Sept. 7, 1875	153	47	8	428
159, 950	McKenney, Samuel S., et al. (See Reeder, Albert, assignor.)					
	McKenzie, Alexander, assignor of one-half interest to William Earp, Philadelphia, Pa. Method of manufacturing carriage-shackles.....	Feb. 16, 1875	682	226	7	290
6, 397	McKenzie, Duncan, Brooklyn, N. Y. Baker's oven..... (Reissue).....	Apr. 20, 1875	826	266	7	696
169, 562	McKenzie, Hugh, Oronoco, Minn. Fence-post support.....	Nov. 2, 1875	222	73	8	765
171, 031	McKenzie, James A., Minneapolis, Minn. Dulcimer and similar musical instruments.....	Dec. 14, 1875	253	118	8	1005
163, 674	McKenzie, Kenneth, Hamilton, Canada. Apparatus for cutting out garments.....	May 25, 1875	911	290	7	897
169, 563	McKervey, Hugh F., assignor to self, Angus McKay, and Charles S. Ramsay, Cheboygan, Mich. Car-coupling.....	Nov. 2, 1875	223	73	8	765
168, 841	McKibben, John, Lima, Ohio. Halter and bridle.....	Oct. 19, 1875	508	167	8	653
	McKiernan, Christopher. (See King & McKiernan.)					
169, 824	McKim, George W., Martin's Ferry, Ohio. Metallic cask.....	Nov. 9, 1875	509	159	8	808
160, 451	McKinley, Walter, assignor to George Kiser, Tremont, Ohio. Lamp-burner.....	Mar. 2, 1875	176	61	7	374
170, 877	McKinley, William, Bellaire, Ohio. Reciprocating churn.....	Dec. 7, 1875	195	67	8	977
165, 014	McKinney, Henry D., Janesville, Wis. Toe-weight and quarter-boot attachment for horses.....	June 29, 1875	1125	363	7	1116
164, 016	McKinnon, Cameron, Midway, Ala. Lamp.....	June 1, 1875	150	53	7	951
162, 489	McKinnon, James J., San Francisco, Cal. Potato-digger.....	Apr. 27, 1875	862	277	7	709
	McKinnon, William, et al. (See Boyd, John, assignor.)					
170, 097	McKissock, Samuel, Allegheny, Pa. Carbureter.....	Nov. 16, 1875	767	243	8	850
168, 042	McKnight, Alexander C., Philadelphia, Pa. Screw-pegging machine.....	Sept. 21, 1875	613	197	8	510
	McKnight, Charles G., et al. (See Olmsted, Joseph, assignor.)					
171, 578	McKnight, William, Troy, Ohio. Gas-generator.....	Dec. 28, 1875	909	297 } 298 }	8	1096
171, 401	McKown, Alexander W., Honesdale, Pa. Wagon-spring.....	Dec. 21, 1875	730	239	8	1062
6, 203	McLanahan, J. King, Hollidaysburgh, Pa. Lubricating wheel and pulley..... (Reissue).....	Jan. 5, 1875	185	64	7	35
	McLane, Charles A. (See Pearson, Thomas T., assignor.)					
170, 683	McLaren, James, Albany, N. Y. Combination of lathes, planers, and drilling-machines.....	Dec. 7, 1875	27	8	8	954
171, 153	McLaughlin, Arthur, Cambridge, Mass. Child's-carriage-handle socket.....	Dec. 14, 1875	476	155	8	1021
8, 380	McLaughlin, Daniel, assignor to Belknap Manufacturing Company, Bridgeport, Conn. Hand-wheel of valves..... (Design).....	June 8, 1875			7	968
	McLaughlin, George T., et al. (See Crockett, Samuel J., assignor.)					
168, 657	McLaughlin, James, New York, N. Y. Compression-cock.....	Oct. 11, 1875	338	110	8	620
8, 686	McLaughlin, Sallie, assignor to Edward H. Godshalk, Philadelphia, Pa. Dress-trimming..... (Design).....	Oct. 5, 1875			8	560
166, 398	McLauthlin, George T., Boston, Mass. Steam-generator.....	Aug. 3, 1875	199	59, 60	8	227
	McLean, B. F. (See Hubbard, Horace J., assignor.)					
162, 847	McLean, Donald M., Gloucester, Mass. Pot and kettle.....	May 4, 1875	100	33	7	760
	McLean, John. (See Titus, Josiah B., assignor.)					
159, 697	McLean, William H., Moberly, Mo. Car-replacer.....	Feb. 9, 1875	430	144	7	252
	McLeod, Charles, et al. (See Batchelder, Edwin R., assignor.)					
	McLeod, Charles A. (See Bussey, Esek, assignor.)..... (Reissue).....					
170, 010	McLeod, Peter M., Sun Prairie, Wis. Corn-cutter.....	Nov. 16, 1875	684	214	8	839
8, 669	McLewee, Frederick, New York, N. Y. Illuminating-sign..... (Design).....	Sept. 28, 1875			8	521
159, 596	Same..... Illuminated sign.....	Feb. 9, 1875	340	113	7	240
167, 921	Same..... Chandelier.....	Sept. 21, 1875	505	161	8	494
166, 214	McMahel, James F., and Samuel Tracy, Oxford, Ohio. Organ-stop action.....	Aug. 3, 1875	27	9	8	203
	McMahon, Martin T., et al. (See Garrick, Thomas, assignor.)					
160, 274	McMains, Alexander C., San Francisco, Cal. Connection for bed-bottom springs.....	Mar. 2, 1875	18	7	7	351
170, 580	McManus, Henry, assignor to self and C. E. L. Holmes, New York, N. Y. Loom-picker.....	Nov. 30, 1875	1249	393	8	931
160, 931	McMaster, Joseph M., Rochester, N. Y. Sad-iron.....	Mar. 16, 1875	635	207	7	453
169, 184	McMeekin, Thomas G. W., and William W. Hunt, Cedartown, Ga. Cotton-press.....	Oct. 26, 1875	844	275	8	707
169, 185	Same..... Cotton-chopper.....	Oct. 26, 1875	845	275	8	707
	McMillan, Angus. (See Gribbin & McMillan.)					
159, 108	McMillan, Duncan D., La Crosse, Wis. Self-regulating gas-burner.....	Jan. 26, 1875	746	246	7	148
171, 236	McMillan, George, La Crosse, Wis. Gas-regulator.....	Dec. 21, 1875	579	190	8	1042
	McMillan, John H. (See Potter, Albert H., assignor.)					
164, 856	McMillan, William H., Philadelphia, Pa. Hydrant.....	June 22, 1875	966	312	7	1088
	McMillin, John W. (See Creekmore & McMillin.)					
	McMinn, William G. (See Kimber, Abraham, assignor.)					
	McMullen, George. (See Blackford & McMullen.)					
163, 675	McMurray, John P., Oregon, Mo. Sliding gate.....	May 25, 1875	912	290	7	897
171, 625	McMurray, Louis, Baltimore, Md. Soldering apparatus.....	Dec. 28, 1875	968	313	8	1103
164, 468	McMurray, Robert, Brooklyn, N. Y. Cylinder for paper-making machines.....	June 15, 1875	609	197	7	1031
163, 676	McMurtrie, William, and Benjamin Chambers, jr., Washington, D. C. Process of rendering artificial stone impervious to moisture and preventing efflorescence thereon.....	May 25, 1875	912		7	897
	McNab and Harlin Manufacturing Company. (See Hyde, James P., assignor.)					
159, 951	McNabb, James, assignor to self, Joseph Blakeley, and Sylvanus Cornell, Widder Station, Canada. Mechanism for trimming ships.....	Feb. 16, 1875	683	226	7	291
164, 017	McNabb, James, assignor to self and Sylvanus Cornell, Widder Station, Canada. Car-coupling.....	June 1, 1875	151	53	7	951
8, 249	McNair, David, assignor to the Lowell Manufacturing Company, Lowell, Mass. Car-pet..... (Design).....	Mar. 30, 1875			7	516
8, 250	Same..... same..... (Design).....	Mar. 30, 1875			7	516
8, 608	Same..... same..... (Design).....	Sept. 7, 1875			8	403
8, 609	Same..... same..... (Design).....	Sept. 7, 1875			8	403
164, 497	McNair, William L., Allegheny, Pa. Manufacture of metal tubing.....	June 15, 1875	632	204	7	1035
166, 399	McNair, William L., Allegheny, assignor to William Graff & Co., Pittsburgh, Pa. Furnace for heating tubes.....	Aug. 3, 1875	202	60	8	227
	McNamar, John H. (See Scheidler & McNamar.)					
159, 198	McNaughton, George, Brooklyn, N. Y., assignor of one-half interest to Gustav H. Roth, Boston, Mass. Steam-valve.....	Jan. 26, 1875	826	272	....	160
	McNeil, William H. (See Wilder, McNeil & Tyler.)					
	Same..... (See Wilder, McNeil, Wilder & Tyler.)					
	McNeill, George P. (See Woodward, George W., assignor.)					
	McNiece, William. (See Murray, John, assignor.)					
167, 458	McNitt, Martin, Mound Station, Ill. Cultivator.....	Sept. 7, 1875	69	21	8	416
167, 405	McNulty, Richard, Nashville, Tenn. Car-truck.....	Sept. 7, 1875	24	7	8	410
167, 406	Same..... same.....	Sept. 7, 1875	24	7	8	410
164, 857	McOmber, Sanford W., assignor of one-half interest to Johnson M. Burdge, North Manchester, Ind. Fruit-can.....	June 22, 1875	967	313	7	1088
169, 017	McOmber, Sanford W., assignor of one-half interest to Charles H. Winton, North Manchester, Ind. Tire-tightener.....	Oct. 19, 1875	669	220	8	675

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 004	McPhail, James, Ellis, Kans. Crown-bar for steam-boilers	Aug. 24, 1875	809	251	8	339
	McPherson, Deborah, <i>et al.</i> (See McPherson, John, assignor.)					
162, 673	McPherson, George, Chicago, Ill. Percolator	Apr. 27, 1875	1021	327	7	729
162, 295	McPherson, John, assignor to Deborah McPherson and J. Mather House, Houseville, N. Y. Harrow	Apr. 20, 1875	651	213	7	675
	McPherson, John R. (See Lugo, Orazio, assignor.)					
	Same..... (See Steventon & McGrath, assignors.)					
161, 807	McPherson, John R., Jersey City, N. J. Stock-car	Apr. 6, 1875	186	63	7	506
165, 849	Same..... same	July 20, 1875	710	216	8	130
165, 850	Same..... same	July 20, 1875	711	217	8	130
168, 043	Same..... same	Sept. 21, 1875	614	197	8	510
159, 952	McQuary, Thomas, Daviess County, Ky., assignor of one-half interest to Sam. J. Harris. Portable fence	Feb. 16, 1875	684	226	7	291
166, 124	McQueen, Benjamin F., Manack, Ala. Lantern for trapping insects	July 27, 1875	985	304	8	180
166, 539	McQuillin, John W., and John A. Knepper, Delta, Ohio. Washing-machine	Aug. 10, 1875	344	106	8	256
161, 256	McRae, Roderick, Fayetteville, N. C. Combined cotton-chopper and scraper	Mar. 23, 1875	947	309	7	503
158, 384	McSwain, Moses S., Pole Grove, Wis. Gate	Jan. 5, 1875	28	10	7	12
163, 326	McSweeney, James, Pittsfield, Mass. Saw-filing machine	May 18, 1875	585	188	7	847
170, 754	McVaw, Daniel, Gallatin, Tenn. Plowing and seeding machine	Dec. 7, 1875	92	29, 30	8	963
161, 426	McVeen, Samuel, and Benjamin K. Price, Cleveland, Ohio. Horseshoe-fastening	Mar. 30, 1875	1124	363	7	533
168, 514	McVicar, Malcolm, Potsdam, N. Y. Terrestrial globe	Oct. 5, 1875	177	57	8	589
166, 021	McWane, Charles P., Dublin, Va. Log-turner	July 27, 1875	885	273	8	166
162, 296	McWane, Thomas J., Versailles, Ill. Washing-machine	Apr. 20, 1875	652	213	7	675
163, 227	McWayne, Chandler, Colfax, Cal. Single-rail-railway car	May 11, 1875	470	152	7	816
163, 677	McWilliams, Henry H., Sacramento, Cal. Printer's galley	May 25, 1875	914	290	7	897
	McWilliams, Joseph, <i>et al.</i> (See McWilliams, Michael, assignor.)					
	McWilliams, Michael. (See Devine, Edward, assignor.)					
171, 402	McWilliams, Michael, assignor to self, Joseph McWilliams, and Edward Devine, Detroit, Mich. Machine for bending tubes, &c	Dec. 21, 1875	731	240	8	1062
169, 018	Meacham, James H., Petersburg, Va. Centrifugal water-wheel	Oct. 19, 1875	670	220	8	675
168, 515	Meacom, George, Beverly, Mass. Catamenial sack	Oct. 5, 1875	178	58	8	590
159, 833	Mead, Charles V., Chillicothe, Mo. Bank-check	Feb. 16, 1875	573	191	7	276
165, 015	Mead, Edwin D., Shortsville, N. Y. Grain-drill	June 29, 1875	1125	363	7	1116
169, 717	Mead, George A., Salem Centre, N. Y. Rail-joint	Nov. 9, 1875	397	124	8	794
	Mead, Henry A. (See Hawley & Mead.)					
168, 912	Mead, Joseph W., Dupont, Ind. Device for changing speed	Oct. 19, 1875	577	190	8	662
169, 019	Mead, Theodore H., New York, N. Y. Target	Oct. 19, 1875	670	220	8	675
163, 504	Meade, Baron A., Newark, N. J. Ventilating flue-stopper	May 18, 1875	748	238	7	868
	Meady, Albert C. (See Crosby, George H., assignor.)					
170, 878	Meals, Joseph D., assignor to self and Andrew J. and Thomas G. Jack, North Washington, Pa. Tongue-support	Dec. 7, 1875	196	67	8	977
6, 454	Mears, John H., Oshkosh, Wis., assignor, by mense assignments, to Reuben Hoffheins. Rake for harvesters	May 25, 1875	1064	336	7	917
	Same..... (Reissue)					
165, 942	Mears, Lemuel R., New York, N. Y. Waxing compound	July 27, 1875	812		8	156
	Mease, George R. (See Devoil & Mease.)					
168, 658	Meay, Samuel P., Kilbourne, Ohio. Clothes-drier	Oct. 11, 1875	339	110	8	620
170, 098	Medart, Martin, Belleville, Ill. Child's carriage	Nov. 16, 1875	768	243	8	850
171, 523	Medbery, Horace J., Henry A. Mann, jr., and Simeon H. Drake, Ballston Spa, N. Y. Steam drying-wheel	Dec. 28, 1875	859	281	8	1088
171, 524	Medbery, Horace J., Ballston Spa, N. Y. Machine for cutting paper collars	Dec. 28, 1875	860	281	8	1088
	Meddaugh, L. Grant. (See Snow, Loxor B., assignor.)					
	Meek, Alexander S. (See Schneider & Meek.)					
	Meeker, D. W. (See Meeker, John G., assignor.)					
168, 272	Meeker, John G., assignor of one-half interest to D. W. Meeker, Danbury, Conn. Machine for stretching hat-bodies	Sept. 28, 1875	852	271	8	549
	Meeker, Joseph R., <i>et al.</i> (See Higgins, Sylvester W., assignor.)					
	Meeker, Lorenzo. (See Fayette & Meeker.)					
161, 626	Meeks, John A., Berea, Ohio. Refrigerator	Apr. 6, 1875	32	13	7	573
6, 303	Mefford, David M., Toledo, Ohio, assignor to American Invention Company, Saint Louis, Mo. Saw-grinding machine	Feb. 23, 1875	967	318	7	338
	Same..... (Reissue)					
82, 429	Mefford, David M., Norwalk, Ohio. Preserving fruit	Feb. 25, 1875			7	610
159, 597	Mefford, David M., Toledo, Ohio, assignor to American Invention Company. Weather-board gage	Feb. 9, 1875	341	113	7	240
160, 609	Mefford, David M., assignor to American Invention Company, Toledo, Ohio. Dry-measure	Mar. 9, 1875	328	111	7	405
159, 598	Megee, Robert F., Washington, D. C., assignor of one-half interest to Alexander Hay, New York, N. Y. Combined oyster knife and nippers	Feb. 9, 1875	342	113	7	240
160, 932	Megill, Edward L., assignor to William G. Morgan, Brooklyn, N. Y. Automatic lighter for gas-burners	Mar. 16, 1875	636	207	7	453
161, 049	Megill, Edward L., Brooklyn, N. Y. Feed-guide for printing-presses	Mar. 23, 1875	746	246	7	477
166, 882	Megill, Joseph, Cecilton, Md. Scraper	Aug. 17, 1875	678	210	8	312
169, 825	Megill, Sebring C., Chicago, Ill. Dental and barber's chair	Nov. 9, 1875	509	159, 160	8	808
162, 567	Meharg, James M., assignor to Richard Patton, Montreal, Canada. Steam-trap	Apr. 27, 1875	926	297	7	717
164, 858	Mehling, George F., Detroit, Mich. Process of graining wood	June 22, 1875	968		7	1088
	Meier & Co., Adolphus. (See Osterspey, Peter, assignor.)					
169, 280	Meier, Edward D., Saint Louis, Mo. Hydraulic compress	Oct. 26, 1875	931	302	8	719
165, 747	Meigs, Charles D., jr., Indianapolis, Ind. School-slate	July 20, 1875	603	186	8	116
	Meigs, Henry L. (See Meigs, Montgomery C. and Henry L.)					
158, 960	Meigs, Joe V., Lowell, Mass. Method of lubricating cartridges	Jan. 19, 1875	587	195	7	120
160, 934	Same..... Chair	Mar. 16, 1875	638	208	7	453
160, 935	Same..... Stock for fire-arms	Mar. 16, 1875	639	208	7	454
163, 024	Same..... Machine for making and loading cartridges	May 11, 1875	284	92, 93	7	792
163, 228	Same..... Locomotive	May 11, 1875	471	153	7	816
167, 005	Same..... Machine for making and heading cartridge-cases	Aug. 24, 1875	810	251, 252	8	339
6, 373	Meigs, Montgomery C., Washington, D. C. Lens-attachment for gas-burners. (Reissue) ..	Apr. 13, 1875	492	162, 163	7	647
159, 199	Same..... same	Jan. 26, 1875	827	272	7	160
169, 366	Same..... Lens-attachment to gas-burners	Nov. 2, 1875	46	14	8	741
166, 125	Meigs, Montgomery C. and Henry L., Romney, Ind. Dumping-wagon	July 27, 1875	985	304	8	181
161, 892	Meikle, James W., Louisville, Ky. Elevator	Apr. 13, 1875	277	93	7	620
170, 637	Meili, Henry, Yellow Stone, Wis. Harrow	Nov. 30, 1875	1304	411	8	939
165, 851	Mein, William, Stratford, England. Steam-governor	July 20, 1875	713	217	8	130
166, 473	Meinberg, Franz, New York, N. Y. Shawl-holder	Aug. 10, 1875	293	88	8	248

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170, 755	Meinikheim, Bernard G., Newtown, and William D. Chase, New York, N. Y.; said Chase assignor to said Meinikheim. Basket.....	Dec. 7, 1875	93	30	8	963
159, 599	Meitzler, Charles, and G. Herman Haass, Rochester, N. Y. Float for suction-pipes of pumps.....	Feb. 9, 1875	342	14	7	240
170, 684	Melaye, Charles, New York, N. Y. Cane-gun.....	Dec. 7, 1875	28	9	8	954
169, 564	Melcher, Lewis A. (See Melcher, Michael A. and Lewis A.) Melcher, Michael A. and Lewis A., Constantine, Mich. Pattern-chart for drafting garments.....	Nov. 2, 1875	224	73, 74	8	765
	Melcher, William H. (See Crabtree & Melcher.) Melchers, Edward. (See Deymann & Melchers.)					
169, 826	Melhorn, Simon L., Hanover, Pa. School-seat.....	Nov. 9, 1875	510	160	8	808
164, 018	Melick, James W., White Cottage, Ohio. Washing-machine.....	June 1, 1875	151	54	7	951
170, 757	Melling, John W., Wigan, England. Safety and relief valve.....	Dec. 7, 1875	94	30, 31	8	963
160, 693	Mellinger, Benjamin, Mount Pleasant, Pa. Horse hay-rake.....	Mar. 9, 1875	402	135	7	415
165, 016	Mellinger, Christian K., assignor of two-thirds interest to Henry C. Shaffner and Lehman & Rigel, Harrisburgh, Pa. Carriage-seat.....	June 29, 1875	1126	363	7	1116
161, 536	Mellon, Davis M., Tremont, Pa. Sewing-machine attachment.....	Mar. 30, 1875	1231	396	7	548
6, 725	Mellon, John L., Pana, Ill. Overshoe..... (Reissue)	Nov. 2, 1875	280	90	8	772
165, 852	Mellor, Charles H., Philadelphia, Pa. Loose pulley for shaftings.....	July 20, 1875	715	217	8	130
	Meloon, David C., et al. (See Toppan, Daniel L., assignor.) Meloon, Hopkins H., et al. (See Toppan, Daniel L., assignor.)					
161, 698	Meloon, Jonathan C., Providence, R. I. Stop-cock.....	Apr. 6, 1875	92	32	7	582
6, 379	Melton, Reuben M., Criglersville, Va. Cultivator..... (Reissue)	Apr. 13, 1875	498	164	7	648
164, 385	Menaar, Nicholas A., Buffalo, N. Y. Tea-kettle.....	June 15, 1875	531	174	7	1022
158, 430	Mencke, Henry, assignor of one-half interest to Charles Vigneron, Providence, R. I. Mechanical toy.....	Jan. 5, 1875	66	23, 24	7	18
160, 452	Mendel, Moses, assignor to Adolph Schwarz, New York, N. Y. Cap.....	Mar. 2, 1875	177	61	7	374
	Mendenhall, B. (See Tandy, Mark, assignor.)					
158, 726	Mendenhall, Marmaduke H., Wabash, Ind. Reflector and sight-protector.....	Jan. 12, 1875	346	118	7	72
162, 298	Same..... Sight-protector.....	Apr. 20, 1875	655	213	7	675
171, 403	Same..... same.....	Dec. 21, 1875	731	240	8	1062
170, 581	Mendonsa, John F., Springfield, Ill. Lubricating compound.....	Nov. 30, 1875	1249		8	931
165, 353	Meneely, George R., West Troy, N. Y. Casting bronze.....	July 6, 1875	193	57	8	35
160, 610	Menegay, Jules, Brooklyn, N. Y. Watch-case spring.....	Mar. 9, 1875	329	111	7	405
158, 507	Menk, Peter L., Paris, Ill. Car-coupling.....	Jan. 5, 1875	139	46	7	28
165, 109	Mentzel, Henry D., Baltimore, Md. Tag-machine.....	June 29, 1875	1209	389	7	1127
166, 126	Mercer, George, Saint Louis, Mo. Scroll-sawing machine.....	July 27, 1875	986	305	8	181
164, 927	Mercer, William, Christiana, Pa. Turbine water-wheel.....	June 29, 1875	1054	339	7	1106
159, 340	Merchen, John G., Lowden, Iowa. Horse-power attachment.....	Feb. 2, 1875	93	32	7	197
161, 537	Merembeck, Benjamin E., Philadelphia, Pa. Child's rocker.....	Mar. 30, 1875	1232	396	7	548
160, 025	Meriam, Horace, Berlin, Wis. Car-coupling.....	Feb. 23, 1875	772	255	7	310
159, 954	Merick, Eldridge J., Rochester, N. Y. Broom-head.....	Feb. 16, 1875	685	227	7	291
	Meriden Britannia Company. (See Christesen, Rudolph, assignor.)..... (Design.) Same..... (See Hirschfeld, Henry W., assignor.)..... (Design.) Same..... (See Smith, William M., assignor.) Same..... same..... (Design.) Same..... (See Wilcox, Horace C., assignor.)					
162, 760	Merkel, Gumal. (See Richter & Merkel.)					
164, 469	Meroney, Thomas J., Salisbury, N. C. Plow.....	May 4, 1875	22	8	7	750
170, 099	Merrell, Isaac L., San Francisco, Cal. Paint compound.....	June 15, 1875	609		7	1032
165, 171	Same..... Boiler-cover.....	Nov. 16, 1875	769		8	850
168, 763	Merrell, Theodore, Dixon, Ill. Corn and cane harvester.....	July 6, 1875	29	8, 9	8	12
8, 231	Merriam, Alanson H., West Meriden, Conn. Punch-press.....	Oct. 11, 1875	428	140	8	633
	Merriam, Asaph, and Charles L. Little, West Meriden, Conn. Pedestal for stools. (Design).....	Mar. 30, 1875			7	516
169, 565	Merriam, Edward D. (See Osborn, Merriam & Doty.)					
169, 566	Merriam, Flavel G., Akron, Ohio. Pipe.....	Nov. 2, 1875	226	74	8	765
169, 827	Same..... same.....	Nov. 2, 1875	227	74	8	765
167, 554	Same..... Enamel for tobacco-pipes.....	Nov. 9, 1875	510	160	8	808
	Merriam, Levi P., London, England. Soldering-machine.....	Sept. 7, 1875	153	48	8	428
	Merriam, Russell B. (See Silva, Merriam & Sedgwick.) Merriam, W. A. (See Pettengill, Manasseh, assignor.) Merrick, Bennajah G. (See Merrick, Eldridge J., assignor.)					
162, 490	Merrick, Eldridge J., assignor to self and Bennajah G. Merrick, Rochester, N. Y. Portable broom-head.....	Apr. 27, 1875	862	277	7	709
164, 386	Merrick, Oscar M., Chillicothe, Ill. Wash-bench.....	June 15, 1875	531	174	7	1022
164, 387	Same..... Rotary churn.....	June 15, 1875	532	175	7	1022
164, 388	Same..... Lap-board.....	June 15, 1875	533	175	7	1022
	Merrihew, P. E. (See Smith, John, assignor.)					
170, 582	Merrill, Calvin J., Upper Alton, Ill., assignor to Henry E. Merrill, Akron, Ohio. Tile.....	Nov. 30, 1875	1250	393	8	931
164, 098	Merrill, Charles L., Evansville, Ind., assignor of one-half interest to Lorenzo D. Bartlett, Hudson, N. Y. Chain-pump.....	June 8, 1875	252	86	7	976
165, 017	Merrill, Chester C., Port Jervis, N. Y. Photographic vignetting-machine.....	June 29, 1875	1127	364	7	1116
	Merrill, Edward W. (See Merrill, Manning, assignor.)					
164, 859	Merrill, Frank M., Marysville, Cal. Governor for steam-engines.....	June 22, 1875	969	{ 313 314 }	7	1088
166, 935	Merrill, Freeman C., South Paris, Me. Side-hill-plow clevis.....	Aug. 24, 1875	738	229	8	329
	Merrill, Henry E. (See Merrill, Calvin J., assignor.)					
160, 782	Merrill, Herbert S., Cambridge, Mass. Paper-bag machine.....	Mar. 16, 1875	510	{ 165 166 }	7	436
159, 953	Merrill, Hollis W., Lynn, Mass. Sandpapering-machine.....	Feb. 16, 1875	684	227	7	291
6, 762	Merrill, Hollis W., and James W. Hoitt, Lynn, Mass., assignors to National Boot and Shoe Tip Company of Connecticut. Tip for boots and shoes..... (Reissue)	Nov. 23, 1875	1100	345	8	904
160, 835	Merrill, Hollis W., and James W. Hoitt, Lynn, Mass. Boot and shoe tip.....	Mar. 16, 1875	555	180	7	442
170, 100	Merrill, Hollis W., and James W. Hoitt, Lynn, Mass., assignors to National Boot and Shoe Tip Company. Process of preparing and coloring hides.....	Nov. 16, 1875	770		8	851
	Merrill, John C. (See Merrill, Luther and John C.) Merrill, John F., Cincinnati, Ohio. Fire-place.....	May 25, 1875	914	291	7	897
163, 678	Merrill, Joshua, et al. (See Merrill, Rufus S., assignor.) Same..... (See Moehring, Herman G., assignor.) Merrill, Josiah. (See Frost & Merrill.)					
164, 576	Merrill, Luther and John C., Turkey River Station, Iowa. Wire fence.....	June 15, 1875	698	227	7	1014
166, 286	Merrill, Manning, assignor to self and Edward W. Merrill, New York, N. Y. Manufacture of turn-buckles.....	Aug. 3, 1875	94	29	8	212
162, 939	Merrill, Norris H., Buchanan, Mich. Carpet-stretcher.....	May 4, 1875	188	62	7	772
	Merrill, Rufus S., et al. (See Moehring, Herman G., assignor.)					

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163, 505	Merrill, Rufus S., Boston, Mass., assignor to Herman G. Mochring, Philadelphia, Pa., and Rufus S., William B., and Joshua Merrill, Boston, Mass. Lamp.....	May 18, 1875	748	238	7	868
163, 679	Merrill, Seth W., Maynard, Mass. Window-blind.....	May 25, 1875	915	291	7	898
	Merrill, William B., et al. (See Merrill, Rufus S., assignor.)					
	Same..... (See Mochring, Herman G., assignor.)					
	Merrill, William E. (See Walton & Merrill.)					
162, 938	Merrill, William E., Cincinnati, Ohio. Head-light for steamboats.....	May 4, 1875	187	61	7	771
164, 690	Merriman, Alanson H., West Meriden, Conn. Clutch for power-press.....	June 22, 1875	813	265 266	7	1068
170, 101	Same..... Power-press.....	Nov. 16, 1875	771	244	8	851
161, 108	Merriman, Benjamin H., assignor of one-half interest to Christopher A. Scranton, New Haven, Conn. Whiffletree-coupling.....	Apr. 6, 1875	188	64	7	596
166, 711	Merriman, Francis E., Boston, Mass. Machine for splitting or dressing whalebone.....	Aug. 17, 1875	518	159	8	289
	Merriman, William F. (See Woods, Hiram, assignor.)					
8, 761	Merritt, Charles, South Weymouth, Mass. Shoe-upper front..... (Design)	Oct. 26, 1875			8	689
	Merritt, D., et al. (See Olsson, Axel, assignor.)					
	Merritt, Daniel. (See Coe & Merritt.)					
159, 341	Merritt, Samuel F., Springfield, Mass. Safety-pin.....	Feb. 2, 1875	94	32	7	197
171, 525	Merritt, William J., Bardolph, Ill. Flour-bolt.....	Dec. 28, 1875	861	282	8	1039
161, 141	Merritt, Wyly, assignor to self and M. T. Castlebury, Atlanta, Ga. Bedstead-fastening.....	Mar. 23, 1875	838	273	7	488
8, 217	Mersereau, William T., Orange, N. J. Stair-rod..... (Design)	Mar. 23, 1875			7	466
167, 407	Mershon, Ralph S., Zanesville, Ohio. Watch-regulator.....	Sept. 7, 1875	25	7	8	110
167, 922	Mertz, John H., Paso Robles, Cal. Tire-upsetting machine.....	Sept. 21, 1875	506	161	8	494
	Merwin, Hulbert & Co. (See Hopkins, Charles W., assignor.)					
	Same..... (Reissue.)					
	Messenger, Joseph, et al. (See Barnard, Alanson, assignor.)					
163, 794	Messer, Louis, New York, N. Y. Fastening for pocket-books.....	May 25, 1875	1013	321	7	911
165, 110	Same..... Clasp for pocket-books.....	June 29, 1875	1210	389	7	1127
166, 400	Same..... Spring-catch for boxes.....	Aug. 3, 1875	302	60	8	227
169, 464	Messinger, Edwin D., Chicago, Ill. Paper bag for brooms.....	Nov. 2, 1875	130	41	8	753
170, 756	Messinger, William T., Boston, Mass. Steam-boiler injector.....	Dec. 7, 1875	94	30	8	963
160, 275	Messmer, Ferdinand, Saint Louis, Mo. Faucet.....	Mar. 2, 1875	18	7	7	351
	Metallic Seam Company. (See Keith & Reed, assignors.)					
164, 577	Metcalf, John S., Indianapolis, Ind. Grain-elevator.....	June 15, 1875	699	227 228	7	1044
	Metcalf, Martin. (See Weeks & Metcalfe.)					
	Metcalf, Paul & Co. (See Trethewey, Samuel, assignor.)					
167, 006	Metcalfe, Henry, Springfield, Mass. Means of attaching magazines to fire-arms.....	Aug. 24, 1875	813	252	8	340
	Metcalfe, James C. (See Leman & Metcalfe.)					
	Metropolitan Washing Machine Company. (See Johnson, Josee, assignor.)					
161, 627	Metz, Christian, Pawtucket, R. I. Game apparatus.....	Apr. 6, 1875	33	13	7	574
161, 050	Metz, George H., Wyandotte, Kans. Sash-fastener.....	Mar. 23, 1875	747	246	7	478
170, 102	Metz, John W., Georgetown, D. C. Middlings-purifier.....	Nov. 16, 1875	772	244	8	851
8, 364	Metz, Nathan, New York, N. Y. Fan..... (Design)	June 1, 1875			7	926
171, 237	Metzger, George F., and Jacob P. Kohler, West Fayette, N. Y. Clover-separator.....	Dec. 21, 1875	580	190	8	1042
168, 099	Metzker, Reuben H., Genoa, Ohio. Well-boring machine.....	Sept. 28, 1875	694	219	8	527
168, 273	Meucci, Antonio, Clifton, assignor to Giuseppe Tagliabue, East Chester, N. Y. Method of testing milk.....	Sept. 28, 1875	852	271	8	550
	Meyer, Adolph C., et al. (See Pitt, William, assignor.)					
160, 936	Meyer, Adolph C., Baltimore, Md. Bottling-faucet.....	Mar. 16, 1875	639	208	7	454
163, 877	Meyer, Arthur, New York, N. Y. Insect-powder injector.....	June 1, 1875	36	12	7	935
159, 600	Meyer, August, Port Washington, Wis. Churn.....	Feb. 9, 1875	343	114	7	240
162, 674	Meyer, Bernhard H., New York, N. Y. Machine for bunching and wrapping cigars.....	Apr. 27, 1875	1023	327	7	729
8, 021	Meyer, Charles T. and Victor E., Bergen, N. J., assignors to Edward C. Sampson, New York, N. Y. Oil-cloth..... (Design)	Jan. 26, 1875			7	133
8, 022	Same..... (Design)	Jan. 26, 1875			7	133
8, 023	Same..... (Design)	Jan. 26, 1875			7	133
8, 024	Same..... (Design)	Jan. 26, 1875			7	133
8, 050	Same..... (Design)	Feb. 9, 1875			7	223
8, 188	Same..... (Design)	Mar. 2, 1875			7	345
8, 189	Same..... (Design)	Mar. 2, 1875			7	345
8, 190	Same..... (Design)	Mar. 2, 1875			7	345
8, 270	Same..... (Design)	Apr. 13, 1875			7	610
8, 271	Same..... (Design)	Apr. 13, 1875			7	610
8, 422	Same..... (Design)	June 22, 1875			7	1057
8, 423	Same..... (Design)	June 22, 1875			7	1057
8, 424	Same..... (Design)	June 22, 1875			7	1057
8, 425	Same..... (Design)	June 22, 1875			7	1057
8, 529	Same..... (Design)	July 27, 1875			8	148
8, 530	Same..... (Design)	July 27, 1875			8	148
8, 531	Same..... (Design)	July 27, 1875			8	149
8, 532	Same..... (Design)	July 27, 1875			8	149
8, 533	Same..... (Design)	July 27, 1875			8	149
8, 534	Same..... (Design)	July 27, 1875			8	149
8, 773	Same..... (Design)	Nov. 9, 1875			8	776
8, 774	Same..... (Design)	Nov. 9, 1875			8	776
8, 775	Same..... (Design)	Nov. 9, 1875			8	776
8, 805	Meyer, Charles T. and Victor E., Bergen, N. J. Floor oil-cloth..... (Design)	Nov. 23, 1875			8	862
8, 806	Same..... (Design)	Nov. 23, 1875			8	862
8, 807	Same..... (Design)	Nov. 23, 1875			8	862
8, 856	Meyer, Charles T., and Victor E., Bergen, N. J., assignors to Edward C. Sampson, New York, N. Y. Oil-cloth..... (Design)	Dec. 21, 1875			8	1034
8, 857	Same..... (Design)	Dec. 21, 1875			8	1034
8, 858	Same..... (Design)	Dec. 21, 1875			8	1034
8, 859	Same..... (Design)	Dec. 21, 1875			8	1034
162, 568	Meyer, Gustavus, assignor to Julius Franke, Quincy, Ill. Box-scraper.....	Apr. 27, 1875	927	298	7	717
166, 540	Meyer, Gustavus, assignor of one-half interest to Julius Franke, Quincy, Ill. Box-scraper.....	Aug. 10, 1875	345	106	8	256
167, 681	Same..... Device for pitching barrels.....	Sept. 14, 1875	277	87, 88	8	452
	Meyer, Henry. (See Grimm, Richard, assignor.)					
158, 961	Meyer, Henry, New York, N. Y. Glue-cup.....	Jan. 19, 1875	588	195	7	120
	Meyer, Henry W. (See Brown & Meyer.)					
171, 404	Meyer, Jacques, New York, N. Y. Horse-collar.....	Dec. 21, 1875	733	240	8	1063
166, 215	Meyer, Julius, Philadelphia, Pa. Basket.....	Aug. 3, 1875	29	10	8	203
164, 650	Meyer, Peter, Iowa City, Iowa. Sash-fastener.....	June 22, 1875	867	282	7	1075
	Meyer, Victor E. (See Meyer, Charles T. and Victor E.)..... (Design)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume		Official Gazette.	
			Spec.	Drig.	Vol.	Page.
164, 578	Meyer, William, Oneida, N. Y. Glove	Jan. 15, 1875	700	228	7	1045
161, 809	Meyer, William, and Henry Freiburg, Quincy, Ill. Boot and shoe	Apr. 6, 1875	189	64	7	596
164, 860	Same	June 22, 1875	971	314	7	1088
166, 621	Same	Aug. 10, 1875	418	129	8	266
171, 032	Meyers, Frederick J., Covington, Ky. Corn-popper	Dec. 14, 1875	254	112	8	1005
165, 853	Meyers, John B., New Orleans, La. Liquid-mixer	July 20, 1875	716	218	8	131
169, 020	Michaels, Joseph P., New York, N. Y. Toy	Oct. 19, 1875	672	221	8	675
164, 651	Michalet, François, and Pascal Bourget, Lyons, France. Embroidering-machine	June 22, 1875	868	283	7	1076
169, 281	Michel, Anton J., Saint Louis, Mo. Billiard and other table-levelers	Oct. 26, 1875	933	303	8	719
	Michel, Charles. (See Leseur & Michel.)					
160, 694	Michel, Jacob, New York, N. Y. Invalid-bedstead	Mar. 9, 1875	402	135	7	415
161, 051	Same	Mar. 23, 1875	748	246	7	478
165, 354	Michels, Peter, Brooklyn, N. Y. Strainer for pots	July 6, 1875	194	58	8	35
	Michigan Stove Company. (See Anthony, Benjamin M., assignor.) (Design.)					
166, 622	Mickle, Belton, Holly Springs, Miss. Car-coupling	Aug. 10, 1875	419	129	8	266
160, 937	Mickle, John G., and Fountain F. Deatring, Foster ville, Tenn. Cotton-chopper	Mar. 16, 1875	640	209	7	454
161, 142	Middaugh, Alvin, Scio, N. Y. Milk-testing process	Mar. 23, 1875	838	273	7	489
166, 127	Middleditch, John, New York, N. Y. Plow	July 27, 1875	987	305	8	181
166, 712	Middleton, Henry, Charleston, S. C. Telegraph-transmitter	Aug. 17, 1875	520	159 160	8	289
	Middleton, John, et al. (See Brittain, Richard J., assignor.)					
160, 218	Middleton, John W., Philadelphia, Pa. Steam-engine	Feb. 23, 1875	937	307	7	333
169, 021	Middleton, Leonard, and James B. Carey, Victor, Iowa. Railway-switch	Oct. 19, 1875	673	221 222	8	675
161, 257	Middleton, Nathan, assignor of one-half interest to Stephen Morris, Philadelphia, Pa. Air and water trap	Mar. 23, 1875	948	309	7	503
	Middleton, William A., et al. (See Morrow, William F., assignor.)					
	Same. (See Walters, Charles D., assignor.)					
166, 287	Mieg, Charles T., Paris, France. Method of fixing and developing colors on fabrics	Aug. 3, 1875	95	29	8	212
168, 659	Mielke, Herman, Watertown, Wis. Grain-separator	Oct. 11, 1875	339	110	8	620
164, 928	Mihan, Patrick, Cambridgeport, Mass. Ventilating balls, &c	June 29, 1875	1055	340	7	1106
165, 245	Same	July 6, 1875	96	28	8	22
168, 169	Same	Sept. 28, 1875	762	241	8	537
169, 914	Same	Nov. 16, 1875	605	188	8	828
171, 033	Same	Dec. 14, 1875	255	118	8	1005
166, 022	Mihills, Uriah D., Fond du Lac, Wis. Clothes-pin	July 27, 1875	885	274	8	107
161, 143	Mikesell, George W., Huntington, Ind. Washing-machine	Mar. 23, 1875	839	273	7	489
171, 526	Milchsack, Henry T., Nazareth, Pa. Sash-holder	Dec. 28, 1875	862	282	8	1089
167, 850	Mildren, Edward J., Johnstown, Pa. Machine for making tuyeres	Sept. 21, 1875	448	142	8	485
165, 246	Miles, David, assignor to self and William H. Squarey, Kingston, Pa. Flux for welding iron and steel	July 6, 1875	97		8	22
165, 019	Miles, Henry, Springdale, Iowa. Wire-stretcher	June 29, 1875	1128	364	7	1116
162, 088	Miles, James W., Hubbardston, Mich. Circular-saw mill	Apr. 13, 1875	441	147	7	641
166, 542	Miles, Samuel A., Rochester, N. Y. Brush	Aug. 10, 1875	347	107	8	256
164, 579	Miles, Stephen S., Rome, N. Y. Manufacture of pruning-shears	June 15, 1875	700	228	7	1045
159, 434	Miles, William A., Copake Iron Works, N. Y. Casting car-wheels	Feb. 2, 1875	174	59	7	208
162, 186	Same	Apr. 20, 1875	552	181	7	662
159, 435	Milgate, George C., assignor to self, Calvin A. Beebe, and Lawrence Kinehan, Council Bluffs, Iowa. Stove	Feb. 2, 1875	175	59, 60	7	209
	Milholland D. W., et al. (See Dodd, Robert J., assignor.)					
164, 389	Mill, Edward, Cleveland, Ohio. Paper bag	June 15, 1875	534	175	7	1022
164, 580	Mill, Richard, Island of Jersey, England. Circulation in steam-generators	June 15, 1875	701	228	7	1045
168, 044	Miller, Adam, Holborn, England. Type-setting machine	Sept. 21, 1875	617	198	8	510
160, 114	Miller, A., Ringtown, Pa. Molding-machine	Feb. 23, 1875	847	279	7	321
166, 883	Miller, Abraham S., assignor of one-half interest to Frank P. Wilber, Republic, Ohio. Ladder	Aug. 17, 1875	679	210	8	312
	Miller & Co., Edward. (See Perkins, Orson N., assignor.)					
	Same. (See Perkins, Russell B., assignor.)					
167, 007	Miller, Andrew, Gunter sville, Ala. Farm-fence	Aug. 24, 1875	814	252	8	340
168, 274	Same	Sept. 28, 1875	854	272	8	550
	Miller, A. R. (See Rykert, Alvira G., assignor.)					
160, 453	Miller, Asher M., assignor of one-half interest to John B. Jacobs, Sturgis, Mich. Bag-fastener	Mar. 2, 1875	178	61	7	374
169, 718	Miller, Basil, Coshocton, Ohio. Bridle-bit	Nov. 9, 1875	398	125	8	795
158, 727	Miller, Benjamin F., and William J. Reeves, assignors of one-half interest to James M. Morris and Edward A. Jones, Gatesville, Tex. Cotton-seed planter	Jan. 12, 1875	347	118	7	73
	Miller Brothers. (See Cost, John P., assignor.)					
165, 854	Miller, Cassius M., Phelps, N. Y. Carriage for portable engines	July 20, 1875	716	218	8	131
	Miller, Charles. (See Craig, Lee D., assignor.)					
160, 454	Miller, Charles, Boonville, Mo. Pruning implement	Mar. 2, 1875	178	62	7	374
162, 089	Miller, Charles, Fremont, Ohio. Buggy-top	Apr. 13, 1875	442	147	7	641
170, 486	Miller, Charles A., Urbana, Ohio. Self-closing hinge	Nov. 30, 1875	1159	365	8	920
166, 623	Miller, Charles E., Indianapolis, Ind. Combined letter-box and milk-receptacle	Aug. 10, 1875	419	129	8	266
165, 355	Miller, Charles G., assignor to Stanley Rule and Level Company, New Britain, Conn. Tonguing and grooving planes	July 6, 1875	194	58	8	35
165, 356	Miller, Charles G., and Leonard Bailey, New Britain, Conn.; said Miller assignor to said Bailey. Dado-plane	July 6, 1875	195	58	8	35
159, 699	Miller, Charles H., assignor of one-half interest to William Massing and Edgar Haight, Buffalo, N. Y. Wood pavement	Feb. 9, 1875	431	144	7	252
171, 034	Miller, Charles H., assignor of one-half interest to William Massing, Buffalo, N. Y. Curtain-fixture	Dec. 14, 1875	256	119	8	1005
165, 111	Miller, Charles H., Buffalo, N. Y. Water-sprinkling nozzle	June 29, 1875	1211	390	7	1128
171, 154	Same	Dec. 14, 1875	476	156	8	1021
	Miller, Charles J. (See Steel & Austin, assignors.)					
163, 229	Miller, Clemens and Peter, Marietta, Ohio. Shoe-stretcher	May 11, 1875	474	154	7	816
170, 288	Miller, Daniel, Marietta, Ohio. Combined toilet-case and towel-roller	Nov. 23, 1875	963	301	8	884
167, 008	Miller, Daniel K., Philadelphia, Pa. Permutation-lock	Aug. 24, 1875	814	253	8	340
	Miller, David. (See Streat & Miller.)					
168, 546	Miller, David, Carrollton, Md. Drag	Oct. 5, 1875	179	58	8	590
166, 796	Miller, David J., Santa Fé, N. Mex. Calendar	Aug. 17, 1875	597	184	8	301
168, 660	Miller, Francis, Albany, assignor of one-half interest to East New York Boot, Shoe, and Leather Manufacturing Company, New York, N. Y. Device for driving sewing-machines	Oct. 11, 1875	340	111	8	621
6, 662	Miller, Frederick C., Cincinnati, Ohio. Cigar-mold	Sept. 28, 1875	894	285	8	555
8, 334	Miller, Fred. J., Brooklyn, N. Y. Fireman's trumpet	May 18, 1875			7	837

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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8, 413	Miller, George. (See Knight, James, assignor.)					
	Miller, George G., Philadelphia, Pa. Comb..... (Design) ..	June 22, 1875			7	1056
	Miller, George H. (See Fenn, Robert, assignor.)					
	Miller, George W. (See Miller, William H. and George W.)					
	Same..... (See Smith, George H., assignor)..... (Reissue.)					
169, 367	Miller, George W., Meriden, Conn. Tool-handle.....	Nov. 2, 1875	47	14	8	741
170, 759	Miller, George W., Constitution, Pa. Rein-holder.....	Dec. 7, 1875	96	31	8	963
8, 570	Miller, Herman, assignor to Devoe Manufacturing Company, New York, N. Y. Handle for cans, &c..... (Design) ..	Aug. 17, 1875			8	281
	Miller, Herrman. (See Seiber, Charles F., assignor.)					
161, 259	Miller, Hiram H., John F. Rogers, and Christian Force, Buncetown, Mo. Car-coupling.	Mar. 23, 1875	951	309	7	504
165, 749	Miller, Horace H., Lyndon, Vt. Drag-saw.....	July 20, 1875	605	186	8	117
	Miller, Jacob. (See Miller, Lewis and Jacob)..... (Reissue.)					
	Miller, James. (See Reynolds & Miller.)					
168, 661	Miller, James, Boston, Mass. Piano and organ ottoman.....	Oct. 11, 1875	341	111	8	621
	Miller, J. E., et al. (See Kenny, Arthur, assignor.)					
164, 020	Miller, Joel, Baltimore, Md. Automatic car-coupling.....	June 1, 1875	153	54	7	951
165, 680	Miller, John, Philadelphia, Pa. Leather-dressing.....	July 20, 1875	546		8	108
158, 962	Miller, John, jr., Syracuse, N. Y. Nut-lock washer.....	Jan. 19, 1875	589	195	7	120
163, 080	Miller, John A., Paducah, Ky. Watch-regulator.....	May 25, 1875	916	291	7	898
164, 470	Miller, John A., Oshkosh, Wis. Saw-sharpening machine.....	June 15, 1875	610	197	7	1032
8, 290	Miller, John E., Pittsburgh, Pa. Beer-mug..... (Design) ..	Apr. 27, 1875			7	701
8, 291	Same..... Goblet..... (Design) ..	Apr. 27, 1875			7	701
170, 758	Miller, John G., Fredericksburgh, Va. Clevis.....	Dec. 7, 1875	95	31	8	963
	Miller, John T. (See Tebow, Theodore, assignor.)					
161, 258	Miller, Joseph A., Providence, R. I. Steam-generator.....	Mar. 23, 1875	949	309	7	503
162, 247	Same..... Mincing-machine.....	Apr. 20, 1875	610	199	7	669
162, 248	Same..... Mashing-machine.....	Apr. 20, 1875	610	199	7	669
167, 251	Same..... Hose-reel.....	Sept. 21, 1875	450	143	8	485
170, 685	Same..... Packing-box for fruit and eggs.....	Dec. 7, 1875	29	9	8	954
	Miller, Joseph E., et al. (See Miller, William H., assignor.)					
	Miller, Joseph H. (See Snyder, Benjamin, assignor.)					
159, 109	Miller, La Fayette K., Austin, Tex. Cotton-harvester.....	Jan. 26, 1875	747	246	7	149
164, 581	Miller, Leonard H., Crawfordsville, Ind., assignor of one-half interest to Frank Seaman, Savannah, Ga. Process of producing plates for printing.....	June 15, 1875	702		7	1045
163, 390	Miller, Lewis, Akron, Ohio. Crank-wheel.....	May 18, 1875	642	205	7	854
6, 485	Miller, Lewis and Jacob, Canton, Ohio, assignors to C. Aultman & Co. Harvester. (Reissue) ..	June 15, 1875	747	244	7	1051
169, 719	Miller, Martin D., assignor to self and James T. Pierson, Oswego, Kaus. Governor and cut-off for steam-engines.....	Nov. 9, 1875	399	125	8	795
160, 939	Miller, Miles M., Moline, Ill. Sawing-machine.....	Mar. 16, 1875	643	209	7	454
171, 579	Miller, Moses, East Orange Township, N. J. Machine for gathering stones.....	Dec. 28, 1875	910	298	8	1096
169, 282	Miller, Niles M., Evansville, Ind. Sawing-machine.....	Oct. 26, 1875	933	303	8	719
	Miller, Peter. (See Miller, Clemens and Peter.)					
	Miller, Phillip. (See Gregersen, Peter, assignor.)					
165, 748	Miller, Richard, and James D. Hillson, Stephansville, Wis. Farm-gate.....	July 20, 1875	604	186	8	116
162, 090	Miller, Sam. H., assignor to self and Jesse E. Folk, Brooklyn, N. Y. Lantern.....	Apr. 13, 1875	443	148	7	641
162, 569	Miller, Thomas, Boston, Mass. Piano-stool.....	Apr. 27, 1875	928	298	7	717
161, 628	Miller, Thomas L., Philadelphia, Pa. Shoe-sewing machine.....	Apr. 6, 1875	34	13	7	574
168, 045	Same..... Channel opener and molder for boots and shoes.....	Sept. 21, 1875	619	198	8	510
168, 338	Miller, Warren P., New York, N. Y. Saw.....	Oct. 5, 1875	19	7	8	567
164, 582	Miller, Wesley, assignor to Joseph Banigan, New York, N. Y. Doll.....	June 15, 1875	703	229	7	1045
	Miller, W. H., et al. (See Kenney, Arthur, assignor.)					
	Miller, William, et al. (See Galloway, George, assignor.)					
167, 111	Miller, William, Boston, assignor to self and Augustus Seaver, Milford, Mass. Bobbin-winder for sewing-machines.....	Aug. 24, 1875	909	284	8	353
167, 682	Miller, William, assignor to Charles A. Shaw, Boston, Mass. Fare-register.....	Sept. 14, 1875	278	88	8	452
170, 103	Miller, William, Boston, assignor to self and Henry M. Wiswall, Watertown, Mass. Music-leaf turner.....	Nov. 16, 1875	778	245	8	851
164, 019	Miller, William A., Paterson, N. J. Slate-frame.....	June 1, 1875	152	54	7	951
161, 427	Miller, William B., and William Powell, Cleveland, Ohio. Beer-faucet.....	Mar. 30, 1875	1125	363	7	533
169, 465	Miller, William D., Pittsburgh, Pa. Recoil-check for gun-stocks.....	Nov. 2, 1875	131	42	8	753
160, 059	Miller, William H., West Meriden, Conn. Die for making the handles of pocket-cutlery.	Feb. 23, 1875	803	264	7	314
164, 320	Miller, William H. and George W., Meriden, Conn. Die for manufacturing bolsters for pocket-knives.....	June 8, 1875	456	151	7	1003
169, 022	Miller, William H., assignor of part interest to Kenney & McPartland and Joseph E. Miller, New York, N. Y. Button-gaiter.....	Oct. 19, 1875	674	222	8	676
158, 856	Miller, William R., Baltimore, Md. Insulator for musical instruments.....	Jan. 19, 1875	484	162	7	107
159, 342	Same..... Piano insulator.....	Feb. 2, 1875	94	32	7	197
	Miller, William T. (See Baer, Daniel W., assignor.)					
	Miller's Falls Company. (See Stockbridge, Charles H.)..... (Reissue.)					
	Miller's Falls Manufacturing Company. (See Rose, Clemens B., assignor)..... (Reissue.)					
160, 783	Millet, John W., assignor to Louisa B. Pettyjohn, Johnstown, N. Y. Clothes-pin machine.	Mar. 16, 1875	513	166	7	436
161, 144	Millet, John W., assignor of one-half interest to Louisa B. Pettyjohn, Johnstown, N. Y. Machine for making chair-rounds.....	Mar. 23, 1875	840	274	7	489
166, 128	Millhiser, John L., assignor of two-thirds interest to Joel S. Edwards and Randolph F. Marshall, Marshalltown, Iowa. Sack-holder.....	July 27, 1875	988	305	8	181
168, 100	Milligan, John C., South Orange, N. J. Sheet-metal tube.....	Sept. 28, 1875	695	219	8	527
168, 662	Milligan, John C., South Orange, N. J., assignor to Lalance and Grosjean Manufacturing Company, New York, N. Y. Pan.....	Oct. 11, 1875	342	111	8	621
	Milliken, John. (See Milliken, William H. and John)..... (Disclaimer.)					
	Same..... same..... (Extension.)					
163, 681	Milliken, William H., Sacramento, Cal. Traction-engine.....	May 25, 1875	917	291	7	898
	Milliken, William H., Sacramento, Cal., and John Milliken, Rockland, Me. Combined paper-folding machine and printing-press..... (Extension.)	Feb. 25, 1875			7	515
	Same..... Paper-folding machine..... (Extension.)	Feb. 25, 1875			7	515
31, 578	Milliken, William H. and John, Manchester, N. H. Paper-folding machine. (Disclaimer filed).....	Feb. 19, 1875			7	515
171, 405	Milliman, Lewis J., West Troy, N. Y. Monument.....	Dec. 21, 1875	734	241	8	1063
162, 297	Millinger, Christian K., assignor of one-half interest to Jacob Reinoehl and Lehman & Reigel, Harrisburgh, Pa. Jump-seat for carriages.....	Apr. 20, 1875	653	213	7	675
165, 018	Millmann, Henry J., Milwaukee, Wis. Case for exhibiting yarn.....	June 29, 1875	1128	364	7	1116
167, 110	Millner, George W., Charlottetown, Prince Edward Island. Pipe and bolt vise.....	Aug. 24, 1875	909	283	8	353
171, 481	Millner, Jackson C., Danville, Va. Tobacco-curer.....	Dec. 28, 1875	819	268	8	1083

Alphabetical list of patentees for the year 1875—Continued.

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6, 297	Millot, James. (See Millot, Theophilus and James)..... (Reissue.)					
171, 155	Millot, Theophilus and James, New York, N. Y. Flower-maker's grass-cutting machine. (Reissue)	Feb. 16, 1875	740	246	7	298
165, 112	Mills, Andrew J., Scott, assignor of one-half interest to R. Frank Smith, Seneca Falls, N. Y. Stove-pipe shelf.	Dec. 14, 1875	477	156	8	1021
159, 201	Mills, Chauncey W., Rochester, N. Y. Pump-governor.....	June 29, 1875	1212	390	7	1128
166, 023	Mills, Christopher S., Sterling, assignor of one-half interest to Leonard B. Starkweather, Chicago, Ill. Picture-exhibitor.....	Jan. 26, 1875	829	273	7	160
158, 646	Mills, Clark W., Mont Clair, N. J. Grain-elevator.....	July 27, 1875	886	274	8	167
170, 289	Mills, Edwin, Somerville, Mass. Water-closet valve.....	Jan. 12, 1875	277	93	7	63
164, 021	Mills, F. C., et al. (See Blakeslee, John R., assignor.)					
167, 617	Mills, Francis E., Virginia City, Nev. Method of concentrating tailings from quartz-mills.	Nov. 23, 1875	964	302	8	884
160, 940	Mills, Harvey T. (See Mathewson & Mills.)					
163, 938	Mills, Henry D., Otsego, Mich. Hoe.....	June 1, 1875	153	54	7	952
171, 156	Mills, Hiram R., Port Huron, Mich. Camp-bed.....	Sept. 14, 1875	223	70	8	444
	Mills, Isaac, Hamilton, Canada. Railway-rail-joint protector.....	Mar. 16, 1875	644	210	7	454
	Mills, Isaac, jr., Pittsburgh, Pa. Cement roof.....	June 1, 1875	83	28	7	942
	Mills, James, assignor to self and Philip Combs, Wilmington, Del. Dumping-wagon.....	Dec. 14, 1875	478	156	8	1021
	Mills, James G. (See Lakey & Mills.)					
	Same..... (See Moore & Mills.)					
6, 531	Mills, James R. (See Davis & Mills.)					
161, 538	Mills, John H., Boston, Mass. System of steam and water piping for buildings. (Reissue).....	Aug. 10, 1875	482	147	8	275
159, 343	Mills, Samuel, New Castle, Ohio. Roofing-tile.....	Mar. 30, 1875	1232	397	7	548
6, 235	Mills, Stephen D., Kingston, N. Y. Stay for the bottoms of pantaloons.....	Feb. 2, 1875	95	33	7	197
161, 810	Mills, William J. B., Philadelphia, Pa. Form for fitting shoe-uppers..... (Reissue).....	Jan. 19, 1875	635	211	7	126
170, 961	Mills, John H., Williamsport, Pa. Machine for relishing tenons and cutting wedges.	Apr. 6, 1875	190	64	7	596
6, 668	Mills, William, Middletown, N. Y. Butcher's saw.....	Nov. 23, 1875	870	272	8	871
	Same..... Cross-cut-saw handle.....	Dec. 14, 1875	289	97	8	997
8, 323	Millward, Frank, assignor, by mesne assignments, to Edward Boyd, trustee, Cincinnati, Ohio. High and low water indicator..... (Reissue).....	Sept. 28, 1875	900	287	8	556
159, 523	Milne, James, Philadelphia, Pa. Wainscoting..... (Design).....	May 11, 1875			7	783
159, 698	Milne, John O., Minneapolis, Minn. Cultivator.....	Feb. 9, 1875	287	93	7	231
160, 938	Same..... Bag-tie.....	Feb. 9, 1875	431	144	7	252
163, 391	Milroy, John, North Briton, and James W. Butler, Willesden, England. Construction of piers.....	Mar. 16, 1875	641	209	7	454
6, 519	Milsom, George, assignor of two-thirds interest to Henry Spendelow and F. W. Bartlett, Buffalo, N. Y. Ozone-machine.....	May 18, 1875	643	206	7	854
160, 026	Mindeleff, Demitry, assignor to self and Thomson H. Alexander, Washington, D. C. Process of treating ores..... (Reissue).....	June 29, 1875	1249		7	1134
166, 624	Minderle, Damian, and George Maschmeyer, Saint Louis, Mo. Washing-machine.....	Feb. 23, 1875	773	255	7	310
168, 339	Miner, Solomon C., Chillicothe, Ohio. Machine for compressing grain-shocks.....	Aug. 10, 1875	420	130	8	266
167, 775	Miner, Albert A. (See Crane & Miner.)					
161, 539	Miner, Russell H., Cleveland, Ohio. Paper-hanging machine.....	Oct. 5, 1875	19	8	8	567
162, 299	Miner, Shepherd B., Saint Peter, Minn. Snow-plow.....	Sept. 14, 1875	367	117	8	465
160, 941	Minge, William H. H., Mobile, Ala. Screw-press.....	Mar. 30, 1875	1233	397	7	548
168, 170	Mingeon, Achille F., Wolcottville, Conn. Curry-comb.....	Apr. 20, 1875	656	214	7	675
	Minich, Daniel, Philadelphia, Pa. Automatic fire-plug or hydrant.....	Mar. 16, 1875	644	210	7	454
	Minich, Daniel, assignor of one-half interest to Osborn Conrad, Philadelphia, Pa. Boring-machine.....	Sept. 28, 1875	763	242	8	537
169, 115	Minick, Jacob, Floris, Iowa. Earth-auger.....	Oct. 26, 1875	788	255	8	636
170, 290	Minneapolis Manufacturing Company. (See Macomber, Wyman C., assignor.)					
160, 836	Minor, Charles M., Bridgeport, Conn. Well-curb.....	Nov. 23, 1875	966	302	8	884
167, 776	Minor, John O., Bedford, Iowa, assignor of nine-tenths interest to P. H. Oxley, John P. Bell, Barson Fordyce, A. J. Littleir, Simon Wright, J. T. King, P. D. Curran, W. A. Webb, and D. Griffith. Plow.....	Mar. 16, 1875	555	180	7	442
6, 538	Minor, John W., Middleborough, Mass. Three-wheeled dray.....	Sept. 14, 1875	368	117	8	465
8, 877	Minot, Hiram P., assignor, by mesne assignments, to F. A. Bowen, Chicago, Ill. Ore-separator..... (Reissue).....	July 13, 1875	509	156	8	87
164, 861	Minshall, Richard, Pittsburgh, Pa. Picture-frame.....	Dec. 28, 1875			8	1076
165, 855	Minton, Stephen F., Prairie Plain, assignor of one-half interest to Henry D. Starr, Texas, Tex. Speed-measure.....	June 22, 1875	972	314	7	1088
166, 543	Minton, Thomas W., Stoke-upon-Trent, England. Oven for firing pottery.....	July 20, 1875	718	218 } 219 }	8	131
164, 653	Missimer, Jacob G., Trenton, N. J. Sleeve-button.....	Aug. 10, 1875	348	107	8	256
160, 456	Misso, Rocco, and Bishop J. Warner, Macon, Miss. Car-coupling.....	June 22, 1875	870	283	7	1076
159, 601	Mitchell, Alexander, Wilkesbarre, Pa. Locomotive spark-arrester.....	Mar. 2, 1875	179	62	7	374
159, 200	Mitchell, Austin V., La Salle County, Ill. Feed-rack.....	Feb. 9, 1875	344	114	7	241
161, 260	Mitchell, Frederick B., Truro, England. Stopper and discharge for bottles.....	Jan. 26, 1875	828	272	7	160
162, 570	Mitchell, Frederick N., El Paso, Ill. Agricultural boiler.....	Mar. 23, 1875	752	310	7	504
166, 288	Mitchell, Hosea B., Boston, Mass. Umbrella.....	Apr. 27, 1875	929	298	7	717
169, 720	Mitchell, James C., Lancaster, N. H. Gas-generator.....	Aug. 3, 1875	96	29, 30	8	212
158, 858	Same..... Car-coupling.....	Nov. 9, 1875	400	125	8	795
	Mitchell, James H., San Francisco, Cal. Gridiron.....	Jan. 19, 1875	486	163	7	107
171, 238	Mitchell, James J., administrator. (See Yaw & Mitchell.)					
171, 239	Mitchell, James L., Pueblo, Colo. Sleeping-car.....	Dec. 21, 1875	581	191	8	1043
170, 879	Same..... same.....	Dec. 21, 1875	582	191	8	1043
170, 104	Mitchell, James M., Dunlap, and Lewis B. Kennedy, Keokuk, Iowa. Brick-machine.....	Dec. 7, 1875	196	67, 68	8	977
171, 157	Mitchell, John, Philadelphia, Pa. Shutter-bolt.....	Nov. 16, 1875	774	245	8	851
159, 436	Same..... Mode of manufacturing piston-springs.....	Dec. 14, 1875	478	156	8	1021
	Mitchell, John D., Dry Creek, Ala. Cotton-chopper.....	Feb. 2, 1875	176	60	7	209
	Mitchell, Joseph. (See Krelwitz, Edmund F., assignor.)					
	Mitchell, Joseph L., et al. (See Dorr, Warren, assignor.)					
165, 605	Mitchell, Joseph P., New Bedford, assignor to William A. Brown, Lynn, Mass. Boot and shoe crimping machine.....	July 13, 1875	460	141	8	80
163, 878	Mitchell, Joseph R., Haywood, Cal. Cutter-holder for metal-lathes.....	June 1, 1875	37	12	7	935
160, 695	Mitchell, Nelson C., Indianapolis, Ind. Bee-hive.....	Mar. 9, 1875	403	135	7	415
158, 963	Mitchell, Noah W., Southsea, England. Apparatus for branding and counting corks.....	Jan. 19, 1875	590	196	7	120
	Mitchell, Robert H., deceased. (See Yaw & Mitchell.)					
	Mitchell, Thomas A. (See Jacobs, George T., assignor.)					
	Mitchell, Thomas L. (See Lantz & Mitchell.)					
	Mitchell, William. (See Bechler, John A., assignor.)					
160, 455	Mitchell, William F., assignor of two-thirds interest to Henry W. French and Alfred R. Payne, Lynn, Mass. Lap-board.....	Mar. 2, 1875	179	62	7	374
158, 857	Mitchell, William S., Washington, D. C. Bridle.....	Jan. 19, 1875	485	163	7	107
	Mittendorff, Charles. (See Schmandt, Charles, assignor)..... (Reissue.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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166, 797	Mix, Eugene M. and James E., Westfield, N. Y. Adjustable face-plate for locks.....	Aug. 17, 1875	598	184	8	301
163, 230	Mix, Frank W., assignor to Eagle Lock Company, Terrysville, Conn. Hasp for trunk-locks.....	May 11, 1875	475	154	7	816
164, 652	Same..... Bag-lock.....	June 22, 1875	869	283	7	1076
165, 357	Mix, Garry L., Yalesville, Conn. Water-cooler.....	July 6, 1875	196	58, 59	8	35
160, 219	Mix, James E. (See Mix, Eugene M. and James E.)					
158, 964	Mix, Newell P., Avenue, and William E. Jacobs, Columbus, Ohio; said Jacobs assignor to said Mix. Wind-wheel.....	Feb. 23, 1875	937	307	7	333
161, 428	Mizell, Josiah, and John Revell, Colerain, N. C. Gin-saw sharpener.....	Jan. 19, 1875	590	196	7	120
163, 506	Moat, William J., et al. (See Morrison, Josiah H., assignor.)					
161, 145	Mobley, George H., Nevada, Mo. Bee-hive.....	Mar. 30, 1875	1125	363	7	534
163, 506	Mock, Isidor, Brooklyn, N. Y. Cement pavement.....	May 18, 1875	749	238	7	868
161, 145	Moder, Frank C., Hortonville, Wis. Plaster-sower.....	Mar. 23, 1875	840	274	7	489
159, 700	Moecker, Herman. (See Sunderman, John H., assignor.)					
159, 700	Mochring, Herman G., et al. (See Merrill, Rufus S., assignor.)					
159, 701	Mochring, Herman G., Philadelphia, Pa., assignor of one-half interest to Rufus S., William B., and Joshua Merrill, Boston, Mass. Lamp.....	Feb. 9, 1875	432	145	7	252
163, 507	Same..... Lamp-burner.....	Feb. 9, 1875	434	145	7	252
163, 508	Same..... Wick-raiser.....	May 18, 1875	750	238	7	868
164, 862	Same..... Lamp-burner.....	May 18, 1875	751	239	7	868
164, 862	Moeller, August, Hartford, Conn. Stringing pianos.....	June 22, 1875	973	{ 314 } 315	7	1088
167, 009	Moeller, Peter K. (See Friedlaender & Moeller.)					
159, 035	Moeslein, Valentine, Waterloo, Ill. Spring-power.....	Aug. 24, 1875	816	253	8	340
159, 834	Moestue, Adolph C., Burlington, Wis. Photograph-burnisher.....	Jan. 26, 1875	683	224	7	139
167, 010	Moffatt, Richard R., Brooklyn, N. Y. Construction of ordnance.....	Feb. 16, 1875	574	191	7	276
171, 626	Moffet, John, Pamrapo, N. J. Globe-valve.....	Aug. 24, 1875	817	253	8	340
158, 385	Moffitt, Alexander, Washington, D. C. Horseshoe.....	Dec. 28, 1875	969	314	8	1104
159, 702	Moffitt, John R., Chelsea, Mass. Machine for trimming boot and shoe heel counters.....	Jan. 5, 1875	29	10	7	13
159, 835	Same..... Machine for making counters for boots and shoes.....	Feb. 9, 1875	434	{ 145 } 146	7	253
169, 721	Same..... Apparatus for shaping counter-stiffeners for boots and shoes.....	Feb. 16, 1875	575	191	7	276
170, 182	Mole, John G., assignor of one-half interest to Byron Huff, Sarpy Centre, Nebr. Corn-planter.....	Nov. 9, 1875	400	126	8	795
162, 091	Molesworth, William, New York, N. Y. Syringe.....	Nov. 23, 1875	870	272	8	871
168, 842	Moliere, James W., Detroit, Mich. Electro-therapeutic bath.....	Apr. 13, 1875	444	148	7	641
8, 068	Moll, Charles F., and Joseph H. Altheide, Quincy, Ill. Air-pump.....	Oct. 19, 1875	508	167	8	653
158, 803	Moll, Max, New York, N. Y. Cigar-box..... (Design)	Feb. 16, 1875			7	261
162, 675	Moloney, Maurice F., et al. (See Irvin, Thomas W., assignor.)					
161, 510	Moneuse, Elie, New York, N. Y. Vegetable-slicer.....	Jan. 19, 1875	437	146	7	101
169, 023	Monitor Plow Works. (See Ferguson, Sam. T., assignor.)					
171, 035	Monk, William G., Brooklyn, N. Y. Composition for tiles.....	Apr. 27, 1875	1024		7	729
159, 437	Monnett, John P., Bucyrus, Ohio. Harvester-rake.....	Mar. 30, 1875	1234	397	7	548
8, 776	Same..... Farm-fence.....	Oct. 19, 1875	675	222	8	676
167, 011	Monnier, Auguste, Sacramento City, Cal. Watch-cleaning fluid.....	Dec. 14, 1875	257		8	1005
160, 837	Monroe, Ansel W., Rahway, N. J. Doll.....	Feb. 2, 1875	178	60	7	209
161, 146	Monroe, George O., Newark, N. J. Satchel-handle tip..... (Design)	Nov. 9, 1875			8	776
159, 438	Same..... Tip for satchel and bag handles..... (Design)	Nov. 9, 1875			8	777
171, 302	Same..... Handle attachment for valises.....	Aug. 24, 1875	817	254	8	340
170, 445	Monroe, James B., Newburgh, N. Y. Hand-sled.....	Mar. 16, 1875	556	180	7	442
170, 880	Monson, Charles, New Haven, Conn. Water-power.....	Mar. 23, 1875	841	274	7	489
162, 571	Montabetti, Vincenzo, Milan, Italy, assignor to L. G. Marini, Washington, D. C. Umbrella-tip retainer.....	Feb. 2, 1875	178	61	7	209
158, 508	Montfort, Richardson, Butler, Ga. Bale tie.....	Dec. 21, 1875	639	209	8	1050
170, 881	Montgomery, Francis A., Eaton Rapids, Mich. Well-auger.....	Nov. 30, 1875	1120	353	8	914
162, 571	Montgomery, Joseph V., Toledo, Ohio. Kitchen-ventilator.....	Dec. 7, 1875	197	68	8	977
158, 508	Montgomery, William, Chicago, Ill. Ash-sifter.....	Apr. 27, 1875	929	298	7	717
170, 881	Montignani, John O., Albany, N. Y. Brush and mop holder.....	Jan. 5, 1875	140	47	7	28
167, 459	Mood, Lynfred. (See Clinton & Mood.)					
170, 291	Moody, Alexander, Chicago, Ill. Pie-plate stand.....	Dec. 7, 1875	197	68	8	977
160, 457	Moody, David B., et al. (See Ludwig, John C., assignor.)					
168, 913	Moody, Henry C., Oswego, N. Y. Child's carriage.....	Sept. 7, 1875	70	21	8	416
162, 249	Same..... Carriage-curtain.....	Nov. 23, 1875	967	302	8	884
168, 764	Moody, Hiram, et al. (See Laird, Peter B., assignor.)					
171, 482	Moomaw, Mark B., Catawba, Va. Water-wheel chute.....	Mar. 2, 1875	180	62	7	374
166, 401	Moon, Andrew, San Francisco, Cal. Steam-boiler indicator.....	Oct. 19, 1875	578	190	8	662
170, 487	Moon, Charles R., Wolcottville, Ind. Neck-yoke.....	Apr. 20, 1875	611	199	7	669
163, 510	Moon, Sanford P. (See Sanford, Edwin L., assignor.)					
161, 052	Mooney, George, assignor to Providence Gas Burner Company, Providence, R. I. Gas-heater.....	Oct. 11, 1875	428	140	8	633
161, 429	Mooney, John, Providence, R. I. Fruit-picker.....	Dec. 28, 1875	819	269	8	1083
163, 509	Mooney, Joseph E., assignor to T. F. Eigelberger & Co., Baltimore, Md. Hydrant.....	Aug. 3, 1875	203	61	8	227
164, 023	Moor, George, La Fayette, Oreg. Sulky-plow.....	Nov. 30, 1875	1160	365	8	920
170, 583	Moore, Albert G., Uniontown, Pa. Corn-row marker.....	May 18, 1875	754	{ 239 } 240	7	869
161, 261	Moore, Andrew N., Trenton, Ky. Farm-fence.....	Mar. 23, 1875	952	310	7	504
169, 024	Moore, Benjamin T., Isleworth, England. Ship's log.....	Oct. 19, 1875	675	223	8	616
159, 110	Moore, Calvin, and Charles H. Campfield, San Francisco, Cal. Ore-concentrator.....	Jan. 26, 1875	748	246	7	149
161, 052	Moore, Charles P. (See Palmer, Joseph, assignor.)					
161, 429	Moore, Daniel, assignor to Joseph Goldmark, Brooklyn, N. Y. Time-lock.....	Mar. 23, 1875	749	246	7	478
163, 509	Same..... Hatch closing and indicating apparatus.....	Mar. 30, 1875	1126	364	7	534
164, 023	Moore, Daniel, assignor to Samuel I. Thursby, Brooklyn, N. Y. Self-closing hatchway.....	May 18, 1875	753	239	7	869
170, 583	Moore, Daniel and Edwin, Brooklyn, assignors to selves and Richard D. Alliger, New York, N. Y. Hoe.....	June 1, 1875	155	55	7	952
170, 882	Moore, Edward I., Niles, Ohio. Tire-tightener.....	Nov. 30, 1875	1250	394	8	932
164, 197	Moore, Edwin. (See Moore, Daniel and Edwin.)					
162, 491	Moore, Enos B., Bell's Mills, Ala. Cultivator.....	Dec. 7, 1875	198	68	8	977
6, 732	Moore, Franklin W., Erieville, N. Y. Milk-cooler.....	June 8, 1875	336	115	7	987
158, 598	Moore, George A., and William McCloud, Columbus, Ohio. Compound for removing incrustation in steam-boilers.....	Apr. 27, 1875	864		7	709
	Moore, George F. (See Moore, Stephen and George F.)					
	Moore, George R., Philadelphia, Pa., assignor, by mesne assignments, to John S. Perry, Albany, N. Y. Heating-stove..... (Reissue)	Nov. 9, 1875	568	177	8	515
	Moore, George R., Philadelphia, Pa. Culinary vessel.....	Jan. 12, 1875	235	79	7	57

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161, 977	Moore, George R., assignor of one-half interest to Richard McCambridge, Philadelphia, Pa. Water-closet valve.....	Apr. 13, 1875	350	117	7	629
163, 943	Moore, George R., Philadelphia, Pa. Furnace-grate.....	July 27, 1875	813	249	8	156
171, 483	Same..... Stove-grate.....	Dec. 28, 1875	820	269	8	1083
161, 629	Moore, George W., Newark, N. J. Machine for rowing-exercise.....	Apr. 6, 1875	35	13	7	574
170, 760	Moore, Gideon E., Jersey City, N. J., assignor to Passaic Zinc Company. Distilling zinc from its ores.....	Dec. 7, 1875	97	.....	8	963
158, 859	Moore, Gilpin, Moline, Ill. Gang-plow.....	Jan. 19, 1875	487	164	7	107
164, 929	Moore, Gilpin, Rock Island, Ill. Sulky-plow.....	June 29, 1875	1056	340	7	1106
164, 022	Moore, Gilpin, and George Curkendall, assignors to Deere & Co., Moline, Ill. Plow-iron.....	June 1, 1875	154	55	7	932
163, 682	Moore, Hartwell R., Erie, Pa. Reed-organ attachment.....	May 25, 1875	918	292	7	898
171, 527	Same..... same.....	Dec. 28, 1875	8 3	{ 282 283 }	8	1089
161, 699	Moore, Henry A., Brooklyn, N. Y. Chair-seat.....	Apr. 6, 1875	93	33	7	582
158, 431	Moore, Henry E. (See White, Albert E., assignor.)					
158, 432	Moore, Hiram, Green Lake Township, Wis. Corn-planter.....	Jan. 5, 1875	67	24	7	19
158, 432	Same..... Grass-seed sower.....	Jan. 5, 1875	68	24	7	19
	Moore, J. A., et al. (See Kline, Jacob, assignor.)..... (Reissue.)					
	Moore, J. Addison, et al. (See Kline, Jacob, assignor.)					
	Moore, James A. (See Wallis, John N. and Theodore, assignors.)					
171, 158	Moore, James A., Kewanna, Ind. Swinging gate.....	Dec. 14, 1875	479	157	8	1021
	Moore, James C., et al. (See Gordon, William J., assignor.)					
	Moore, James C. (See Martin & Moore.)					
170, 883	Moore, James C., Philadelphia, Pa. Cuspadore.....	Dec. 7, 1875	199	69	8	977
	Moore, James D. (See Hiron & Moore.)					
	Same..... (See Stickle, Parker & Moore.)					
158, 647	Moore, James G., Lisbon, N. H. Machine for making excelsior.....	Jan. 12, 1875	278	93	7	63
164, 099	Moore, James L., assignor of one-third interest to Edwin B. Munson, Stratford, Conn. Paper box.....	June 8, 1875	253	87	7	976
168, 340	Moore, James P., Cleveland, Ohio. Package for ethylene.....	Oct. 5, 1875	20	8	8	567
159, 766	Moore, John C., Madison, Ind., assignor of one-half interest to Henry B. Gibson, Cincinnati, Ohio. Car-starter.....	Feb. 16, 1875	511	171	7	268
166, 129	Moore, John, Brooklyn, N. Y. Reversible latch.....	July 27, 1875	989	{ 305 306 }	8	181
167, 266	Same..... Knob-rose.....	Aug. 31, 1875	1068	333	8	382
	Moore, John A. (See Young & Davis, assignors.)					
167, 852	Moore, John A., Providence, R. I. Stove.....	Sept. 21, 1875	451	143	8	486
167, 460	Moore, John H., Fisherville, N. H. Loom-shuttle binder.....	Sept. 7, 1875	70	22	8	416
170, 011	Same..... Let-off mechanism for looms.....	Nov. 16, 1875	685	215	8	839
160, 536	Moore, John R., and James G. Mills, Chicago, Ill. Machine for patching railway-rails.....	Mar. 9, 1875	266	90	7	395
160, 537	Moore, Jonas, Chicago, Ill. Overalls.....	Mar. 9, 1875	297	91	7	396
160, 538	Same..... Bricklayer's vest.....	Mar. 9, 1875	268	91	7	396
165, 020	Moore, Jonathan, jr., Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Stove-grate.....	June 29, 1875	1129	364	7	1116
159, 439	Moore, Joseph, San Francisco, Cal. Joint for sheet-metal pipes.....	Feb. 2, 1875	179	61	7	209
161, 053	Moore, Myron E., Auburn, Me. Ironing-board.....	Mar. 23, 1875	750	247	7	478
170, 884	Moore, Nelson A., Kensington, Conn. Smoke-drum and water-heater.....	Dec. 7, 1875	200	69	8	977
171, 303	Moore, Peter C., La Fayette, Ohio. Corn-stalk knife.....	Dec. 21, 1875	640	210	8	1050
166, 024	Moore, Richard H., Groesbeck, Ohio. Railway-signal.....	July 27, 1875	887	274	8	167
6, 374	Moore, Samuel C., Boston, Mass., assignor, by mesne assignments, to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Lamp..... (Reissue.)	Apr. 13, 1875	493	163	7	647
160, 342	Moore, Samuel H., Chicago, Ill. Corn-sheller.....	Mar. 2, 1875	77	27	7	359
	Moore, Sidney. (See Kent & Moore.)					
	Moore, Stephen. (See Rogers, Homer, assignor.)					
161, 811	Moore, Stephen and George F., assignors to Stephen Moore and Homer Rogers, Sudbury, Mass. Mechanism for feeding heel-stiffeners or counter-blanks.....	Apr. 6, 1875	192	65	7	596
163, 231	Moore, Stephen, assignor to self and Homer Rogers, South Sudbury, Mass. Machine for dividing counter or heel-stiffener blanks.....	May 11, 1875	476	154	7	816
159, 036	Moore, Theodore F., Oswego, assignor of two-thirds interest to Luther S. Wright and Robert B. Linderman, Groton, N. Y. Sleigh.....	Jan. 26, 1875	683	225	7	140
162, 250	Moore, Thomas T., assignor of one-half interest to David E. Bradley, Chicago, Ill. Fire-shield.....	Apr. 20, 1875	612	199	7	669
169, 466	Moore, Thomas T., and David E. Bradley, Chicago, Ill.; said Moore assignor to said Bradley. Fire-shield.....	Nov. 2, 1875	131	42	8	753
163, 939	Moore, Thomas W., Plainfield, N. J. Combined table and desk.....	June 1, 1875	84	28	7	942
	Moore, William, et al. (See Hooker, John, assignor.)					
171, 489	Moore, William N., deceased, by William A. Strong, jr., administrator, Joliet, Ill. Cooper's barrel-heater.....	Dec. 28, 1875	825	271	8	1024
158, 728	Moorwood, Thomas P., Sheffield, Great Britain. Ingot-mold.....	Jan. 12, 1875	348	118	7	73
165, 606	Morahan, Bernard, Brooklyn, N. Y. Mouth-piece for tobacco-pouches.....	July 13, 1875	461	141	8	81
171, 580	Same..... Frying-pan.....	Dec. 28, 1875	911	298	8	1096
166, 884	Moran, Thomas, New York, N. Y. Shade-holder.....	Aug. 17, 1875	680	211	8	312
166, 544	Morand, Augustus, Germantown, Pa. Brick-machine.....	Aug. 10, 1875	348	107	8	256
168, 765	Same..... Method of drying and burning brick, &c.....	Oct. 11, 1875	430	.....	8	634
170, 761	Same..... Brick-machine.....	Dec. 7, 1875	100	31	8	963
171, 627	Same..... Brick-kiln.....	Dec. 28, 1875	970	314	8	1104
167, 853	Morand, William, Troy, N. Y. Turn-button for stove-doors.....	Sept. 21, 1875	452	143	8	486
170, 488	Morehouse, Charles L., Cleveland, Ohio. Oil-press.....	Nov. 30, 1875	1160	366	8	920
	Morell, James F. (See Brooks & Morell.)					
6, 420	Morey, David, Watsonville, Cal. Straw-feeding attachment for furnaces..... (Reissue.)	May 4, 1875	252	81	7	780
171, 159	Morey, John D., Philadelphia, Pa. Shaft coupling for vehicles.....	Dec. 14, 1875	480	157	8	1021
161, 893	Morey, Seth J., Clayton, Ill. Washing-machine.....	Apr. 13, 1875	278	94	7	620
163, 601	Morgan, Charles F., Cleveland, Ohio. Game and other boards.....	May 25, 1875	853	269	7	889
169, 652	Morgan, Charles G., Bristol Station, Ill. Liquid-measure.....	Nov. 9, 1875	330	104	8	786
163, 511	Morgan, Charles H., Worcester, Mass. Water-pressure crane.....	May 18, 1875	755	240	7	869
	Morgan, David, et al. (See Morgan, Theophilus D., assignor.)					
159, 276	Morgan, Dayton S., and Thomas Motley, assignors to Dayton S. Morgan, Brockport, N. Y. Harvester-rake.....	Feb. 2, 1875	30	10, 11	7	188
159, 277	Same..... Mowing-machine.....	Feb. 2, 1875	31	11, 12	7	189
168, 046	Morgan, Edmond, assignor to self and L. Lovell Lawrence, Dublin, Ind. Corn-planter.....	Sept. 21, 1875	620	198	8	511
169, 283	Morgan, Edmond, assignor to self and Wayne Agricultural Company, Dublin, Ind. Feeding mechanism for grain-drills.....	Oct. 26, 1875	935	303	8	719
	Morgan, Elias F. (See Lester, John H., assignor.)					
	Morgan, Elias M. (See Reutchler & Morgan.)					
160, 611	Morgan, Elias M., assignor to Henry Reutchler, Belleville, Ill. Seed-dropper.....	Mar. 9, 1875	330	111	7	405

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
165, 750	Morgan, Elijah C., Valdosta, Ga. Corn-sheller.....	July 20, 1875	606	186	8	117
	Morgan, George C. (See Clemens & Morgan.)					
171, 408	Morgan, George H., Uhricksville, Ohio. Type-wheel.....	Dec. 21, 1875	736	{ 241 242 }	8	1063
6, 682	Morgan, Gerry, and Jacob R. Foster, Andover, N. H.; said Foster assignor to said Morgan. Machine for making wedges..... (Reissue)	Oct. 5, 1875	226	74	8	596
	Morgan, Henry C. (See Starr, Eben T., assignor.)					
	Morgan, Horace A. (See Phillips, Moreau, assignor.)					
167, 461	Morgan, James, Pittsburgh, Pa. Machine for punching boiler-plates.....	Sept. 7, 1875	71	22	8	416
171, 407	Morgan, James, New Orleans, La. Gas-meter.....	Dec. 21, 1875	735	241	8	1063
163, 392	Morgan, John L., Savannah, Ga. Sugar skimmer and cooler.....	May 18, 1875	644	206	7	855
158, 509	Morgan, John S., Hazleton, Ind. Feathering paddle-wheel.....	Jan. 5, 1875	140	47	7	28
8, 703	Morgan, Joseph S., Brooklyn, N. Y. Advertising-desk..... (Design)	Oct. 5, 1875			8	561
162, 692	Morgan, Lewis B., West Liberty, W. Va. Wagon-brake.....	Apr. 13, 1875	446	148	7	641
164, 198	Morgan, Lyman, Port Washington, Wis. Method of casting.....	June 8, 1875	337	115	7	988
163, 795	Morgan, Theophilus D., assignor to self and David Morgan, Pittsburgh, and Hugh McDonald, Allegheny, Pa. Metallurgic furnace.....	May 25, 1875	1014	321	7	911
	Morgan, Thomas R., et al. (See Gracey, Robert, assignor.)					
159, 524	Morgan, William F., assignor to Ames Iron Works, Oswego, N. Y. Doors for feeding straw to furnaces.....	Feb. 9, 1875	287	93	7	231
	Morgan, William G. (See Megill, Edward L., assignor.)					
	Morgan, W. G. (See Wilkinson, Lewis, assignor.)					
158, 804	Morrell, James A., New York, N. Y. Meat-cutting apparatus.....	Jan. 19, 1875	438	146	7	101
158, 805	Same..... same.....	Jan. 19, 1875	439	146	7	101
6, 775	Morrell, John H., New York, N. Y. Water-trap supply and connection..... (Reissue)	Nov. 30, 1875	1325	419	8	942
165, 247	Same..... Floodway for warehouses.....	July 6, 1875	97	29	8	22
168, 405	Same..... Water-trap supply and connection.....	Oct. 5, 1875	77	27	8	576
168, 517	Same..... Floodway for warehouses.....	Oct. 5, 1875	180	58	8	590
169, 722	Same..... Water-supply and vent for traps.....	Nov. 9, 1875	401	126	8	795
159, 111	Morrell, Sidney B., Racine, Wis. Ironing-board.....	Jan. 20, 1875	750	246	7	149
	Morrill, Ozro. (See Reece, John, assignor.)					
166, 289	Morris, Abraham, New York, N. Y. Bed-lounge.....	Aug. 3, 1875	97	30	8	213
161, 978	Morris, Demey C., New Sharon, Iowa. Car-coupling.....	Apr. 13, 1875	351	118	7	629
164, 583	Morris, Eli, New Haven, Conn. Grinding-machine.....	June 15, 1875	704	229	7	1045
	Morris, James M., et al. (See Miller & Reeves, assignors.)					
	Morris, Moritz, et al. (See Smith, Albert C., assignor.)					
	Morris, Stephen. (See Middleton, Nathan, assignor.)					
	Morris, Tasker & Co. (See Munzinger, Peter, assignor.)					
167, 267	Morris, Thomas M., assignor to self and Freeman Alger, Wabash, Ind. Washing-machine.....	Aug. 31, 1875	1069	333	8	382
	Morris, William F. (See Heald, George W., assignor.)					
	Morrison, Alonzo A. (See Whitlatch, Isaac J., assignor.)					
163, 513	Morrison, Andrew J., Troy, N. Y. Combined car-ventilator and water-cooler.....	May 18, 1875	757	{ 240 241 }	7	869
	Morrison, C. M., et al. (See Brewer, Russell, assignor.)					
164, 187	Morrison, Elbridge G., Haverhill, Mass., assignor to self and Elijah Morrison, Raymond, N. H. Dough-mixer.....	Apr. 20, 1875	553	{ 181 182 }	7	662
	Morrison, Elijah. (See Morrison, Elbridge G., assignor.)					
	Morrison, George H. (See Carver, James W., assignor.)					
163, 512	Morrison, Josiah H., assignor to self, William J. Moat, Charles H. Gould, and William D. Vartell, Portsmouth, N. H. Barrel.....	May 18, 1875	756	240	7	869
	Morrison, Louis M. (See Babcock & Morrison.)					
163, 025	Morrison, Samuel G., Williamsport, Pa. Emery-wheel.....	May 11, 1875	290	94	7	792
163, 879	Same..... Saw for sawing stone.....	June 1, 1875	38	12	7	935
163, 880	Same..... Mode of applying emery to metal surfaces.....	June 1, 1875	38	12	7	935
158, 386	Morrison, William H., Indianapolis, Ind. Reservoir for water-works.....	Jan. 5, 1875	30	10, 11	7	13
167, 012	Morrissey, John H., Indianapolis, Ind. Wrench.....	Aug. 24, 1875	818	254	8	340
159, 202	Morrow, William F., assignor of two-thirds interest to William A. Middleton, Newville, Pa., and James M. Mason, Washington, D. C. Lifting-jack.....	Jan. 26, 1875	830	273	7	160
168, 275	Morse, Albert F., Sharon, Mass. Shaft-tug.....	Sept. 28, 1875	855	272	8	550
160, 696	Morse, Andrew J., Boston, Mass. Attaching hose to hose-coupling.....	Mar. 9, 1875	404	135	7	415
166, 130	Same..... Hose-coupling.....	July 27, 1875	990	306	8	181
170, 686	Morse, Ben., Ithaca, N. Y. Ticket.....	Dec. 7, 1875	30	9	8	954
6, 348	Morse, Cyrus B., Rhinebeck, N. Y. Ring spinning-frame..... (Reissue)	Mar. 23, 1875	1015	330	7	512
161, 812	Morse, Edmund L., assignor of one-half interest to Jos. W. Branch, Saint Louis, Mo. Press for cotton-bales.....	Apr. 6, 1875	193	65	7	596
163, 327	Morse, Edward, assignor of one-half interest to Joseph A. Lovejoy, Stoneham, Mass. Bathing apparatus.....	May 18, 1875	587	188	7	847
169, 567	Morse, Enoch R., Boston, Mass. Burglar-proof safe.....	Nov. 2, 1875	228	75	8	765
166, 025	Morse, George F., assignor to self and Joseph F. Tobin, New York, N. Y. Toy.....	July 27, 1875	889	274	8	167
	Morse, Henry C., et al. (See Spencer, Albert H., assignor.)					
	Same..... (See Stewart, Alexander W., assignor.)					
165, 493	Morse, James O., Englewood, N. J. Stop-valve.....	July 13, 1875	361	106	8	65
	Morse, L. W., jr. (See Coffin, John E., assignor.)					
	Morse, Oscar F. (See Stevens & Morse.)					
159, 602	Morse, William H., East New York, N. Y. Shoe-blackening case.....	Feb. 9, 1875	345	114	7	240
165, 113	Morsell, Samuel T. G., Washington, D. C. Metallic roofing.....	June 29, 1875	1212	390	7	1128
	Mortimer, Henry. (See Kirkwood & Mortimer.)					
8, 865	Mortimer, John D. D., Chicago, Ill. Pack of playing-cards..... (Design)	Dec. 21, 1875			8	1034
	Morton, Frank H., et al. (See Whitney, Edwin K., assignor.)					
	Morton, George M., et al. (See Whitney, Edwin K., assignor.)					
168, 171	Morton, John S., Philadelphia, Pa., assignor to Dempsey Wicker Covered Glassware Company. Device for attaching faucets.....	Sept. 28, 1875	764	242	8	537
166, 026	Moschcowitz, Herman, New York, N. Y. Air-brake and car-starter.....	July 27, 1875	889	275	8	167
161, 262	Moseley, Charles S., assignor of one-tenth interest to National Watch Company, Elgin, Ill. Stem-winding watch.....	Mar. 23, 1875	953	{ 310 311 }	7	504
	Moseley, Jacob H. (See Hearson & Moseley.)					
160, 539	Moses, James, Trenton, N. J. Dish of pottery-ware.....	Mar. 9, 1875	268	91	7	396
169, 653	Moses, Lucius W., Indianapolis, Ind. Toe-weight.....	Nov. 9, 1875	332	105	8	786
165, 494	Moses, William S., Lebanon, N. H. Knock-down bureau and wash-stand.....	July 13, 1875	362	107	8	65
166, 798	Same..... Knock-down bedstead.....	Aug. 17, 1875	599	185	8	301
171, 036	Moses, William S., San Francisco, Cal. Tilting drawer.....	Dec. 14, 1875	257	119	8	1005
169, 186	Mosher, Charles D., Chicago, Ill. Photograph-album.....	Oct. 26, 1875	845	276	8	707
	Mosher, George A. (See Jermain, Louis, assignor.)					
168, 663	Mosher, Samuel E., Chillicothe, Ohio. Lifting-jack.....	Oct. 11, 1875	343	111	8	621

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162, 940	Mosman, Daniel F., Chelsea, Mass. Apparatus for heating feed-water.....	May 4, 1875	188	62	7	772
	Moss, George J. (See Moss, James T. and George J.)					
167, 350	Moss, Henry, Baltimore, Md. Clothes-line fastener.....	Aug. 31, 1875	1141	359	8	393
164, 654	Moss, James T. and George J., Ashborough, Ind. Flooring-clamp.....	June 22, 1875	871	284	7	1076
167, 462	Mossop, George, Philadelphia, Pa. Balanced valve.....	Sept. 7, 1875	72	22	8	416
	Mote, Orrin S. (See Perry & Mote.)					
	Motley, Thomas. (See Morgan & Motley.)					
163, 096	Mott, A. M., et al. (See Illingworth, Benjamin, assignor.)					
	Mott, Henry, assignor to self and John C. Callbreath, Pottsville, Iowa. Leather-punching machine.....	May 11, 1875	352	115	7	801
	Mott Iron Works, J. L. (See Burrows, William, assignor.) (Design.)					
	Mott Iron Works, J. L. (See Gates, Charles C., assignor.)					
	Same..... (See Moore, Jonathan, jr., assignor.)					
	Same..... (See Tweeddale, William, assignor.)					
	Mott, J. D., administrator. (See Hermance, Charles W.)					
	Mott, Jordan L. (See Burrows, William, assignor.)					
	Same..... same..... (Reissue.)					
169, 828	Mott, Robert, and Charles Carroll, New Orleans, La. Account-book.....	Nov. 9, 1875	512	160	8	808
161, 813	Mott, Thomas H., New York, N. Y. Calendar movement of clocks.....	Apr. 6, 1875	193	65	7	597
	Moul, Homer, et al. (See Sweet, Daniel F., assignor.)					
171, 160	Moulton, George W., assignor of one-half interest to J. M. Ellis, Bridgeport, Conn. Chuck.....	Dec. 14, 1875	481	157	8	1022
168, 276	Moulton, Lewis A., Old Town, Me. Book-holder.....	Sept. 28, 1875	856	272	8	550
164, 654	Moulton, Nathaniel W., New York, N. Y. Game-table.....	June 22, 1875	779	255	7	1064
169, 568	Moulton, Oliver H., Alexander M. Damon, (deceased,) Laura S. Damon, administratrix, Albany, Vt., and Israel L. G. Rice, Cambridge, said Rice assignor to Charles E. Rice and Retire H. Parker, Boston, Mass. Warper.....	Nov. 2, 1875	229	75	8	765
169, 368	Mountney, William B., Chicago, Ill. Water-meter.....	Nov. 2, 1875	48	14	8	741
	Moury, John B. (See Cook, Joseph H., assignor.)					
161, 430	Mowbray, George M., North Adams, Mass. Priming for electric fuse.....	Mar. 30, 1875	1127		7	534
161, 431	Same..... Priming for electric fuse, &c.....	Mar. 30, 1875	1128		7	534
161, 432	Same..... Priming for electric blasting, &c.....	Mar. 30, 1875	1128		7	534
162, 676	Same..... Frictional electrical machine.....	Apr. 27, 1875	1024	328	7	729
158, 648	Mower, Henry, Camden, assignor of one-half interest to Miles Blodgett, Sandy Creek, N. Y. Compound for unhairing hides and skins.....	Jan. 12, 1875	279		7	63
169, 829	Mowrer, Martin L., Dayton, Ohio. Tool-grinding machine.....	Nov. 9, 1875	512	161	8	808
163, 881	Mowry, Aaron J., and Henry Chance, Burgoon, Ohio. Weed-turner.....	June 1, 1875	39	13	7	935
	Mowry, Asabel J. (See Wilcoxson, David J., assignor.)					
168, 767	Mowry, Liscom, Minneapolis, Minn. Mode of packing flour.....	Oct. 11, 1875	432	140	8	634
171, 409	Moyer, Alexander L., Sherman, Tex. Ventilator.....	Dec. 21, 1875	737	242	8	1063
165, 681	Moyer, Jacob W., Danville, Pa. Rock-drilling machine.....	July 20, 1875	547	167	8	108
170, 489	Moyers, Harold S., assignor to self and Thomas L. Moyers, Wytheville, Va. Farm-gate.....	Nov. 30, 1875	1162	366	8	920
	Moyers, Thomas L. (See Moyers, Harold S., assignor.)					
159, 935	Muchin, Matthew, Riga, Russia. Steam-governor.....	Feb. 16, 1875	686	{ 227 } { 228 }	7	291
	Mudge, Carson, et al. (See Bell, A. John, assignor.) (Reissue.)					
166, 714	Mudgett, Joseph H., Camanche, Iowa. Washing-machine.....	Aug. 17, 1875	523	160	8	290
159, 112	Mueller, Andrew, Boston, Mass. Scarf.....	Jan. 26, 1875	750	247	7	149
	Muench, Robert L. (See Singer, Jacob, assignor.) (Reissue.)					
171, 406	Muir, Daniel H., Racine, Wis. Well-drilling apparatus.....	Dec. 21, 1875	734	241	8	1063
163, 097	Muir, Thomas, Glasgow, Scotland. Machine for washing printer's rollers.....	May 11, 1875	353	115	7	801
169, 025	Muir, William, Montreal, Canada. Hatchway-guard.....	Oct. 19, 1875	679	{ 223 } { 224 }	8	676
169, 026	Same..... Self-closing hatchway.....	Oct. 19, 1875	680	224	8	676
	Muir, William K., et al. (See Dick, Andrew, assignor.) (Reissue.)					
167, 618	Mulberry, James C., Grand Rapids, Mich., assignor of one-half interest to Frances A. Barnes. Planer-chuck.....	Sept. 14, 1875	224	70	8	445
	Mulford, Hale & Cottle. (See Cottle, Shubael, assignor.)					
	Same..... (See Stetter, George, assignor.)					
	Mulford, John E. (See Babson & Mulford.)					
	Mulholland, Henry. (See Stacy, George, assignor.)					
165, 856	Mulholland Henry, et al. (See Stacy, George, assignor.)	July 20, 1875	719	219	8	131
	Mullane, Patrick, Davenport, Iowa. Sack-holder.....					
	Mullendorff, Eugen. (See Gresbeck & Mullendorff.)					
8, 742	Müller, Hermann. (See Koch & Müller.)					
8, 789	Müller, Hermann J., New York, N. Y. Clock-case..... (Design).....	Oct. 19, 1875			8	645
	Same..... same..... (Design).....	Nov. 9, 1875			8	777
160, 220	Muller, Peter, Cleveland, Ohio. Garden-sprinkler.....	Feb. 23, 1875	938	308	7	334
8, 537	Muller, William F., New York, N. Y. Clock-case..... (Design).....	Aug. 3, 1875			8	194
	Muller's Sons, Nicholas. (See Kitschelt, Charles, assignor.) (Design).....					
158, 965	Mullett, Alfred B., Washington, D. C. Warming and ventilating apparatus.....	Jan. 19, 1875	591	196	7	120
158, 966	Same..... Construction of prisons.....	Jan. 19, 1875	592	{ 196 } { 197 }	7	120
168, 277	Same..... Fire-proof roof.....	Sept. 28, 1875	856	272	8	550
159, 956	Mullett, Alfred B., and Franz Schumann, Washington, D. C. Construction of jetties for improving river-channels.....	Feb. 16, 1875	687	228	7	291
160, 784	Mulligan, Charles H., Brooklyn, N. Y. Composition for coating burial-caskets.....	Mar. 16, 1875	514		7	436
166, 216	Mullowny, John F., Pittsburgh, and Thomas S. Shaw, Connellsville, Pa. Gage-cock.....	Aug. 3, 1875	29	10	8	203
163, 514	Mumler, William H., Boston, Mass. Process of producing gelatine relief-plates for printing.....	May 18, 1875	758		7	869
	Muncaster, Walter J. (See McKaig & Muncaster.)					
	Mundell & Co., John, et al. (See White, Hugh, assignor.)					
158, 967	Mundy, Joseph S., Newark, N. J. Friction-drum.....	Jan. 19, 1875	593	197	7	120
159, 344	Munger, Charles W., Peru, Ill. Chimney-top.....	Feb. 2, 1875	95	33	7	197
170, 183	Munger, John W., Portland, Me. Detergent composition.....	Nov. 23, 1875	871		8	871
161, 700	Munger, Wallace T., assignor to P. and F. Corbin, New Britain, Conn. Reversible latch.....	Apr. 6, 1875	94	33	7	582
161, 541	Munn, William B., Camden, N. J. Machine for making lightning-rods.....	Mar. 30, 1875	1235	397	7	548
160, 343	Munroe, Isaac, Peabody, Mass. Shovel.....	Mar. 2, 1875	78	27	7	360
165, 248	Munschaer, George J., Buffalo, N. Y. Coal-vase and fire-iron standard.....	July 6, 1875	93	29	8	22
165, 021	Munson, Aden K., Marysville, Kans. Grain-tally.....	June 29, 1875	1129	365	7	1116
	Munson, Edwin B. (See Moore, James L., assignor.)					
	Same..... (See Reber, James L., assignor.) (Reissue.)					
167, 777	Munson, Frank, and Lewis E. Dick, Buchanan, Mich. Heating-drum.....	Sept. 14, 1875	369	117	8	465
	Munson, Shubal. (See Steel & Munson.)					

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169, 654	Munson, William, assignor of one-third interest to S. D. Kingsley, Scranton, Pa. Toothed roller for coal breakers or crackers.	Nov. 9, 1875	333	105	8	786
169, 723	Muntz, George H. M., Handsworth, England. Machine for making tubing.	Nov. 9, 1875	402	127	8	795
158, 433	Munzinger, Peter, assignor to Morris, Tasker & Co., Philadelphia, Pa. Gas-condenser.	Jan. 5, 1875	69	24	7	19
166, 131	Same. Mouth-piece for gas-retorts.	July 27, 1875	992	306	8	182
167, 555	Same. Dip-pipe of hydraulic gas-mains.	Sept. 7, 1875	154	48	8	428
170, 292	Same. Photometer.	Nov. 23, 1875	967	302	8	884
8, 262	Murch, Chauncey M., Cincinnati, Ohio. Reflector. (Design).	Apr. 13, 1875	.....	.....	7	610
167, 187	Same. same	Aug. 31, 1875	1002	312	8	373
167, 188	Same. same	Aug. 31, 1875	1003	312	8	373
168, 768	Same. Running-gear for vehicles.	Oct. 11, 1875	432	141	8	634
165, 114	Murch, Thompson H., et al. (See Batchelder, Edwin R., assignor.)	June 29, 1875	1213	390	7	1128
162, 572	Murdoch, Richard, Baltimore, Md. Scale and balance stand.	Apr. 27, 1875	930	299	7	717
167, 463	Murdock, Charles F., Detroit, Mich. Car-starter.	Sept. 7, 1875	73	22	8	416
160, 540	Same. Stop-cock.	.....	.....	.....	.....	.....
166, 799	Murdock, John, assignor of one-half interest to Ziba Nickerson, Carver, Mass. Attachment for sinks.	Mar. 9, 1875	269	91	7	396
164, 864	Murdock, John, Carver, Mass. Casting pulleys.	Aug. 17, 1875	599	185	8	301
166, 885	Murdock, John G., Cincinnati, Ohio. Hydrant.	June 22, 1875	974	315	7	1089
166, 886	Murfey, Eliza D., New York, N. Y. Bearing-surface for spindles.	Aug. 17, 1875	681	211	8	312
168, 172	Same. Preparation for bearing-surfaces for spindles.	Aug. 17, 1875	681	.....	8	312
163, 328	Murgatroyd, Thomas, assignor to self and Ferdinand Schoen, Saint Joseph, Mo. Car-starter.	Sept. 28, 1875	765	242	8	537
160, 221	Murkland, John W. (See Rice & Murkland.)	.....	.....	.....	.....	.....
163, 328	Murkland, John W., Lowell, Mass. Meat and vegetable slicer.	Feb. 23, 1875	939	308	7	334
170, 885	Murkland, William, deceased, by John Davis, administrator, Lowell, Mass. Loom. (Extension).	Feb. 4, 1875	.....	.....	7	303
163, 328	Murphy, Alexander A., and Charles C. Hearle, Montreal, Canada. Fire-extinguisher.	May 18, 1875	588	188	7	848
170, 885	Murphy, B. D., et al. (See Ludwig, John C., assignor.)	.....	.....	.....	.....	.....
163, 098	Murphy, Benjamin R., assignor to Charles A. Wade and Samuel Q. A. Burche, Parkersburgh, W. Va. Loom for weaving blinds.	Dec. 7, 1875	200	69, 70	8	977
159, 767	Murphy, Francis, Streator, Ill. Ventilating apparatus for coal-mines.	May 11, 1875	354	{ 115 } { 116 }	7	801
159, 203	Murphy, George M. (See Jacobsen & Murphy.)	.....	.....	.....	.....	.....
159, 345	Murphy, James S. (See Mayes & Murphy.)	.....	.....	.....	.....	.....
161, 433	Murphy, Jeremiah H., Opelika, Ala. Can-opener.	Feb. 16, 1875	513	171	7	268
164, 863	Murphy, John, Fond du Lac, Wis. Movable front for buildings.	Jan. 26, 1875	831	273	7	160
161, 054	Murphy, John, New York, N. Y. Process of introducing antiseptics into rubber hose.	Feb. 2, 1875	96	33	7	197
169, 655	Murphy, John H., Worcester, Mass. Coal-hod.	Mar. 30, 1875	1129	364	7	534
168, 518	Murphy, John W., Baltimore, Md. Device for increasing traction of locomotives.	June 22, 1875	974	315	7	1089
170, 446	Murphy, Patrick. (See O'Sullivan & Murphy.)	.....	.....	.....	.....	.....
170, 886	Murphy, Peter, Jersey City, N. J. Stereoscope.	Mar. 23, 1875	751	247	7	478
162, 573	Murphy, Thomas, Detroit, Mich. Grate-bar.	Nov. 9, 1875	333	{ 105 } { 106 }	8	786
6, 763	Murphy, Thomas H., New Orleans, La. Bale-tie.	Oct. 5, 1875	180	58	8	590
171, 411	Same. Device for baling cotton.	Nov. 30, 1875	1121	353	8	914
162, 574	Same. Mat for pressing oil.	Dec. 7, 1875	203	70	8	978
167, 556	Murphy, William, New York, N. Y. Hod-elevator.	Apr. 27, 1875	931	299	7	718
8, 746	Murr, Lewis. (See Ward, Frank O., assignor.)	.....	.....	.....	.....	.....
160, 942	Murray, Edgar, New York, assignor to Charles W. Dunlap, Brooklyn, N. Y. Skate. (Reissue).	Nov. 23, 1875	1101	346	8	904
8, 051	Murray, Erastus H., Saint Paul, Minn. Cooking apparatus.	Dec. 21, 1875	738	242	8	1063
163, 026	Murray, Henry S., Andes, N. Y. Milk-cooler.	Apr. 27, 1875	932	299	7	718
171, 411	Murray Iron Works Company. (See Peters, Daniel, assignor.) (Reissue.)	.....	.....	.....	.....	.....
167, 556	Murray, John, Coudersport, Pa. Assignor of one-half interest to William McNiece, Philadelphia, Pa. Combined miter, level, and plumb.	Sept. 7, 1875	155	48	8	428
160, 942	Murray, John, and John A. C. J. Smith, Philadelphia, Pa. Toy money-box. (Design).	Oct. 19, 1875	.....	.....	8	645
8, 051	Murray, Marsena M., Cincinnati, Ohio. Farm-box.	Mar. 16, 1875	645	210	7	454
163, 026	Murray, Michael D., Zalmon Gilbert, and Lot Ostrom, Johnstown, N. Y.; said Ostrom assignor to said Murray and Gilbert. Glove-box. (Case A. Design).	Feb. 9, 1875	.....	.....	7	223
171, 410	Murray, Orrin. (See Doeg, Issachar W., assignor.)	.....	.....	.....	.....	.....
168, 341	Murray, Thomas W., assignor of one-half interest to Henry Van Derbeck, New York, N. Y. Bottle-stopper.	May 11, 1875	290	94	7	792
159, 346	Same. same.	Dec. 21, 1875	738	242	8	1963
165, 857	Murray, Worthington. (See Stone & Murray.)	.....	.....	.....	.....	.....
170, 447	Muse, Daniel S., et al. (See Thrash, Isaac T., assignor.)	.....	.....	.....	.....	.....
171, 528	Musgrove, Thomas C., Philadelphia, Pa. Boot and shoe heel.	Oct. 5, 1875	20	8	8	567
169, 830	Musgrove, William, New York, N. Y. Portable cover for plants.	Feb. 2, 1875	97	33	7	197
160, 276	Musick, Lewis E., Wellsville, Mo. Car-coupling.	July 20, 1875	720	219	8	131
161, 979	Muskov, Charles, New York, N. Y. Caloric engine.	Nov. 30, 1875	1122	353	8	915
163, 796	Musser, Frank P., Beaver Falls, Pa. Attaching book-supports to arm-chairs.	Dec. 28, 1875	864	283	8	1089
159, 604	Mussgiller, Friedrich C., and Robert W. Schedler, Jersey City Heights, N. J. Treating beer and other liquids.	Nov. 9, 1875	513	.....	8	808
158, 387	Muther, Lorenzo, and Emil Hentschel, assignors to B. W. Phillips and Amos B. Keith, Chicago, Ill. Sewing-machine caster.	Mar. 2, 1875	19	8	7	351
164, 471	Myers, Addison P., Prattsville, N. Y. Milk-cooler.	Apr. 13, 1875	352	118	7	629
159, 603	Myers, Andrew G., Dayton, Ohio. Stuffing-box.	May 25, 1875	1015	322	7	911
168, 843	Myers, Charles K., Pekin, Ill. Harvester.	Feb. 9, 1875	346	115	7	240
167, 923	Myers, Christian, Marysville, Cal. Gang-plow.	Jan. 5, 1875	31	11	7	13
162, 405	Myers, Christian, assignor of one-half interest to George B. Hornish, Marysville, Cal. Plow.	June 15, 1875	611	198	7	1032
6, 749	Myers, Edward. (See Smith & Myers.)	.....	.....	.....	.....	.....
158, 860	Myers, Francis M., Windsor, Mo. Washing-machine.	Feb. 9, 1875	346	115	7	240
165, 358	Myers, George, Philadelphia, Pa. Clothes-drier.	Oct. 19, 1875	511	167	8	653
165, 359	Myers, George A., Brooklyn, N. Y. Blind-slat adjuster.	Sept. 21, 1875	506	161	8	494
158, 388	Myers, Jacob H. (See Gordon, Myers, Telford & Hubbard.)	.....	.....	.....	.....	.....
162, 405	Same. (See Gordon, Myers, Telford & Myers.)	.....	.....	.....	.....	.....
158, 860	Myers, Jacob H., Rochester, N. Y., assignor to Hubbard Harvester Company, Minneapolis, Minn. Harvester-rake.	Apr. 20, 1875	760	247	7	688
165, 358	Myers, James H., Montreal, Canada, assignor to Oliver H. Keep, New York, N. Y. Shirt.	Nov. 16, 1875	830	261	8	858
165, 359	Myers, James H., and Samuel Spicer, Goodrich, Mich. Hame attachment.	Jan. 19, 1875	488	164	7	107
165, 359	Myers, John, Freeport, Ill. Washing-machine.	July 6, 1875	197	59	8	36
165, 359	Myers, John, Cedar Falls, Iowa. Washing-machine.	July 6, 1875	197	59	8	36
165, 359	Myers, R. Westbrook, New York, N. Y. Tilting chair.	Jan. 5, 1875	32	11	7	13

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 943	Myers, R. Westerbrook, New York, N. Y. Tilting-chair.....	Mar. 16, 1875	646	211	7	455
166, 402	Same..... Stool.....	Aug. 3, 1875	204	61	8	227
	Myers, Samuel. (See Coleman & Myers.)					
160, 612	Myers, Samuel C., Pana, Ill. Wagon end-gate.....	Mar. 9, 1875	331	111	7	405
170, 887	Myers, William H., Oregon, Wis. Door-spring.....	Dec. 7, 1875	203	70	8	978
163, 099	Myerson, Thomas, London, England. Process of treating blood for the manufacture of manure.....	May 11, 1875	356	.....	7	801
167, 854	Nader, John, Madison, Wis. Drain for gas-mains.....	Sept. 21, 1875	453	143	8	486
167, 013	Nadermann, Henry, Newport, Ky. Fruit and jelly press.....	Aug. 24, 1875	819	254	8	340
	Nagle, P. W., et al. (See Wemyss, Alexander, assignor.)..... (Design.)					
	Naglee, Henry M. (See Chaize, Louis, assignor.)					
160, 027	Napier, Henry, New York, N. Y., assignor to James Napier, East Orange, N. J. Hydro-carbon furnace.....	Feb. 23, 1875	774	235	7	310
	Napier, James. (See Napier, Henry, assignor.)					
167, 351	Naramore, Joseph W., Ansonia, Conn. Protector for gas-jets.....	Aug. 31, 1875	1142	359	8	393
168, 101	Nash, Adkins, Logansport, Ind. Grain-drier.....	Sept. 28, 1875	696	220	8	528
161, 434	Nash, Alonzo P., Weymouth, Mass. Cording material for boots and shoes.....	Mar. 30, 1875	1130	364	7	534
165, 751	Nash, Frank W., Plano, assignor of one-fourth interest to William Fraser, Sandwich, Ill. Car-coupling.....	July 20, 1875	607	187	8	117
168, 519	Nash, Henry H., Baltimore, Md. Life-preserving stool.....	Oct. 5, 1875	181	59	8	590
165, 682	Nash, Nathan E., Westerly, R. I. Reversible valve-gear.....	July 20, 1875	548	167	8	108
168, 914	Same..... Governor for steam-engines.....	Oct. 19, 1875	579	191	8	662
168, 576	Nash, Thomas T., Philadelphia, Pa. Cutter and cutter-holder.....	Oct. 11, 1875	261	85	8	608
168, 577	Same..... Manufacture of screw-thread cutters.....	Oct. 11, 1875	261	55	8	608
	Nash, William. (See Kempshall, Eleazer, assignor.)					
167, 189	Nason, Charles F., Auburn, Me. Landing-net.....	Aug. 31, 1875	1003	312	8	373
	Nathan & Dreyfus. (See Dreyfus, Isidore, assignor.)					
	National Ballot-Box Company. (See Brooks, Franklin W., assignor.)					
	National Boot and Shoe Tip Company. (See Merrill & Hoitt, assignors.)					
	Same..... same..... (Reissue.)					
	National Fire-Alarm Company. (See McCullough & Anderson, assignors.)					
	National Manufacturing Company. (See Bigelow, Jonah H., assignor.)					
	National Needle Company. (See Berry, John, assignor.)					
	National Tube Works Company. (See Flagler & Brown, assignors.)					
	Same..... (See Flagler & Dodge, assignors.)					
	Same..... (See Matheson, George, assignor.)					
	National Watch Company. (See Moseley, Charles S., assignor.)					
	National Woolen Loom Stop Motion Company. (See Isherwood & Nuttall, assignors.) (Reissue.)					
168, 520	Nativel, Theodore C., San José, Cal. Chimney-stack.....	Oct. 5, 1875	182	59	8	590
169, 029	Nauen, Otto, New York, N. Y. Needle-case.....	Oct. 19, 1875	683	225	8	676
164, 024	Naughten, James, Cincinnati, Ohio. Sewer-trap.....	June 1, 1875	155	55	7	952
165, 607	Same..... Door-check.....	July 13, 1875	462	141	8	81
166, 290	Nauman, Edward, Uniontown, Ohio. Cultivator.....	Aug. 3, 1875	98	30	8	213
169, 027	Naumann, Gustav A., Saint Louis, Mo. Joiner's clamp.....	Oct. 19, 1875	682	224	8	676
	Naves, Benjamin W. (See Hastings & Naves)					
8, 777	Nax, Leonhard, and Franz A. Kuhn, Philadelphia, Pa. Tobacco-pipe..... (Design) ..	Nov. 9, 1875	.....	.....	8	776
169, 915	Nay, Moses C., East Boston, Mass. Dust-guard for carriage-wheels.....	Nov. 16, 1875	605	188	8	828
162, 093	Naylor, George W., and Howard T. Jefferis, Philadelphia, Pa. Carpet-rag looper.....	Apr. 13, 1875	446	148	7	641
165, 752	Naylor, James, jr., and Edward Brooks, Rochester, N. Y. Bolt-works for safe and vault doors.....	July 20, 1875	608	187	8	117
167, 190	Naylor, James, jr., and John Greenwood, Rochester, N. Y. Machine for trussing and squaring barrels.....	Aug. 31, 1875	1004	312	8	373
164, 199	Neal, Jacob, Moulton, Iowa. Moth-trap.....	June 8, 1875	337	115	7	988
169, 569	Neal, Thomas H., Philadelphia, Pa. Car-coach.....	Nov. 2, 1875	230	75	8	765
162, 678	Neal, Thomas H., assignor of one-half interest to Marcus F. Richardson, Philadelphia, Pa. Means for transmitting the power of stationary engines through the medium of compressed air.....	Apr. 27, 1875	1032	329	7	730
162, 677	Neale, Robert, Brooklyn, N. Y. Plate-printing press.....	Apr. 27, 1875	1028	328 } 329 }	7	729
165, 495	Neamann, Henry, Central City, Colo. Boring and mortising machine.....	July 13, 1875	363	107	8	65
	Needham & Son, E. P. (See Pain, Robert W., assignor.)					
164, 655	Neeley, John W., Petrolia, Pa. Hydrocarbon burner.....	June 22, 1875	780	255	7	1064
	Neer, William E. (See Denio & Neer.)					
164, 584	Neff, David, Indianapolis, Ind. Weather-board gage.....	June 15, 1875	705	229	7	1045
	Neff, Elijah. (See Corey & Neff.)					
	Neff, Peter. (See Fales & Neff.)					
160, 785	Neff, Peter, Gambier, Ohio. Waste-gas burner.....	Mar. 16, 1875	514	166	7	436
160, 786	Same..... Manufacture of lamp-black.....	Mar. 16, 1875	515	166	7	437
160, 787	Same..... Gas-burner for the manufacture of lamp-black.....	Mar. 16, 1875	516	166	7	437
160, 788	Same..... Manufacture of lamp-black.....	Mar. 16, 1875	516	167	7	437
160, 789	Same..... Gas-burner for the manufacture of lamp-black.....	Mar. 16, 1875	518	167	7	437
162, 492	Same..... Apparatus for manufacture of lamp-black.....	Apr. 27, 1875	864	277	7	709
162, 679	Same..... Lamp-black apparatus.....	Apr. 27, 1875	1033	330	7	730
163, 027	Same..... Apparatus for making lamp-black.....	May 11, 1875	291	94	7	793
166, 936	Same..... Lamp-black apparatus.....	Aug. 24, 1875	739	229	8	329
159, 440	Neff, Peter, Gambier, and Levi S. Fales, Cincinnati, assignors to the Kokosing Oil Company, Ohio. Apparatus for the manufacture of carbon or lamp-black.....	Feb. 2, 1875	180	61	7	209
166, 713	Negley, Edward C. and Robert H., and John T. Cunningham, Pittsburgh, Pa. Apparatus for the manufacture of ice.....	Aug. 17, 1875	522	160	8	289
	Negley, Robert H. (See Negley & Cunningham.)					
167, 014	Neider, Frederick A., Madison, Ind. Buckle-loop.....	Aug. 24, 1875	819	254	8	341
	Neidich, Charles. (See Noland & Neidich.)					
159, 037	Neil, John, Chicago, Ill. Chain-pump bucket.....	Jan. 26, 1875	684	225	7	140
	Neilson, Charles H., et al. (See White, William H., assignor.)					
168, 173	Neibach, Joseph B., Utica, N. Y. Cradle.....	Sept. 28, 1875	765	242	8	538
171, 412	Neigh, Charles, sr., Hope, Ind. Buck-board.....	Dec. 21, 1875	739	243	8	1064
159, 703	Nellis, Aaron J., Pittsburgh, Pa. Machine for painting bale-ties.....	Feb. 9, 1875	436	146	7	253
159, 704	Same..... Bale-tie.....	Feb. 9, 1875	437	146	7	253
159, 204	Nellis, James, assignor to self and Charles McIntosh, Ypsilanti, Mich. Shaft-support.....	Jan. 26, 1875	832	273	7	161
161, 986	Nelson, George, Livingston, assignor of one-half interest to Henry C. Pedigo, Woodville, Tex. Wheel for vehicles.....	Apr. 13, 1875	353	118	7	629
161, 814	Nelson, Henry G., Prairieville, Mich. Fly or insect trap.....	Apr. 6, 1875	195	66	7	597
163, 797	Nelson, James, Sunderland, England. Device for rounding the ends of bolts.....	May 25, 1875	1015	322	7	911
	Nelson, John. (See Burson & Nelson.)					

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167, 352	Nelson, John. (See Gram & Nelson.)					
	Nelson, John, Red Wing, Minn. Apparatus for burning hydrocarbons	Aug. 31, 1875	1142	359	8	393
	Nelson, Nels J. (See Peterson, Andrew A., assignor.)					
171, 413	Nelson, Nels P., assignor of one-half interest to Anson S., Seth, and Thomas Piper, Chicago, Ill. Ice-tongs	Dec. 21, 1875	740	243	8	1064
	Nelson, Theodore. (See Cilley, Wright & Nelson.)					
169, 724	Nelson, William C., Sacramento, Cal. Windmill	Nov. 9, 1875	404	127 } 128 }	8	795
169, 831	Nesmith, J. Wellington, Golden, Colo. Spark-arrester	Nov. 9, 1875	514	161	8	809
162, 941	Nessie, John P., Newark, N. J. Street-railway rail	May 4, 1875	190	62	7	772
168, 769	Same..... Fruit-drier	Oct. 11, 1875	433	141	8	634
	Nettleton, Horace A. (See Johnson & Nettleton.)					
163, 232	Neupert, Anthony, Buffalo, N. Y. Soap-press	May 11, 1875	477	154	7	817
162, 300	Neustadter, David, San Francisco, Cal. Fastening for pockets	Apr. 20, 1875	656	214	7	675
159, 347	Nevin, David, assignor to self, Robert Nevin, and J. Oscar Stewart, Georgetown, Colo. Ore-separator	Feb. 2, 1875	97	34	7	197
167, 191	Nevin, David, assignor to self, Robert A. Nevin, and James O. Stewart, Georgetown, Colo. Ore-sizing machine	Aug. 31, 1875	1006	313	8	373
	Nevin, Robert A., et al. (See Nevin, David, assignor.)					
160, 725	Nevins, William, Titusville, Pa. Seed-planter	Nov. 9, 1875	405	128	8	796
	New England Awl and Needle Company. (See Mann & Boardman, assignors.)					
	New England Casket Company. (See Field, Franklin A., assignor)..... (Design.)					
	New England Glass Company. (See Hatch, George E., assignor)..... (Design.)					
	New Haven Clock Company. (See Jerome, Luther E., assignor)..... (Design.)					
	New Haven Folding Chair Company. (See Dann, Isaac N., assignor.)					
	Same..... (See Whitmore, George E., assignor.)					
6, 683	New, Tobias, New York, N. Y. Tank for asphaltic cement	Oct. 5, 1875	226	74	8	596
6, 684	Same..... same	Oct. 5, 1875	227	74	8	596
	New York Car Spring Company. (See Clooney, Benjamin A., assignor.)					
	New York Manufacturing Leather Company. (See Kuelles, Charles H., assignor.)					
	New York Screw Company. (See Cummings, Allan, assignor)..... (Reissue.)					
	New York Steam Engine Company. (See Hoffman, William H., assignor.)					
	Newark Tea Tray Company. (See Brownell, Clark, assignor)..... (Reissue.)					
	Same..... (See Weber, Charles W., assignor)..... (Reissue.)					
160, 697	Newberger, Henry, Fort Wayne, Ind. Lemon-presser	Mar. 9, 1875	406	136	7	416
	Newberry, Thomas. (See Verbryck & Newberry.)					
	Newberry, William, et al. (See Jerrold, John E., assignor.)					
169, 467	Newbrough, John B., New York, N. Y. Exercising apparatus	Nov. 2, 1875	132	42	8	753
170, 012	Newbrough, John B., New York, N. Y., assignor to Samuel S. White, Philadelphia, Pa. Dentist's chair	Nov. 16, 1875	685	215	8	839
171, 240	Newbrough, John B., New York, N. Y. Bottling mineral-water, &c	Dec. 21, 1875	584	192	8	1043
158, 434	Newcomb, David L., Kenton, Ohio. Lining wells	Jan. 5, 1875	70	25	7	19
167, 353	Same..... Earth-auger	Aug. 31, 1875	1143	360	8	393
167, 354	Same..... Shaft-coupling	Aug. 31, 1875	1144	360	8	393
168, 174	Newcomb, Nathan L., Cleveland, Ohio. Furnace	Sept. 28, 1875	765	243	8	538
166, 800	Newcomer, Emory S., Oregon, Ill. Letter-box	Aug. 17, 1875	600	185	8	301
162, 681	Newell, John A., Kalamazoo, Mich. Mechanical movement	Apr. 27, 1875	1035	330	7	730
161, 815	Newell, William H., Philadelphia, Pa. Injector	Apr. 6, 1875	196	66	7	597
161, 263	Newhall, Allen, Jersey City, N. J. Band-saw	Mar. 23, 1875	955	311	7	504
	Newhall, George B. (See Reynolds & Newhall.)					
	Newhouse, Casey. (See Dennen & Newhouse.)					
	Newland, Adoniram D., et al. (See Sinclair, James A., assignor.)					
	Newlon, William R., et al. (See Roberts, Mark L., assignor.)					
150, 038	Newman, Carlton, San Francisco, Cal. Demijohn	Jan. 26, 1875	684	225	7	140
161, 264	Same..... Demijohn-case	Mar. 23, 1875	955	311	7	504
167, 409	Same..... Process of treating rattan	Sept. 7, 1875	29	8	8	410
162, 680	Newman, Jared R., Franklin, Pa. Spring bed-bottom	Apr. 27, 1875	1635	330	7	730
170, 293	Same..... Reclining rocking-chair	Nov. 23, 1875	968	303	8	885
166, 132	Newman, Lane L., Cleveland, Ohio, and Augustus Van Orsdale, Pine Grove, Pa. Condenser and heater	July 27, 1875	993	306	8	182
167, 112	Newman, Martin, Unadilla, N. Y. Ironing-table	Aug. 24, 1875	911	284	8	353
	Newman, Susan A., et al. (See Peacock, George H., assignor.)					
165, 944	Newman, Thomas, and William H. Kneal, Cleveland, Ohio. Faucet	July 27, 1875	814	250	8	156
	Newport, Eliza E., et al. (See Burr, Melbourne C., assignor.)					
161, 816	Newsam, George A., Brooklyn, N. Y. Combined fruit-press, filter, and funnel	Apr. 6, 1875	197	66	7	597
164, 865	Newsham, William L., Philadelphia, Pa. Valve-gear	June 22, 1875	977	316	7	1089
168, 915	Newsom, Daniel A., Hatcher's Station, Ga. Car-coupling	Oct. 19, 1875	580	191	8	663
160, 115	Newsom, Isaac V., Eatonton, Ga. Animal-trap	Feb. 23, 1875	848	279	7	321
	Newton, Dexter F. (See Randall & Newton.)					
170, 184	Newton, George S., Waupun, and Frederick Zollner, Randolph, Wis. Peat-cutter	Nov. 23, 1875	871	272	8	871
	Newton, Isaac E. (See Stever, Jeremiah, assignor.)					
164, 655	Newton, Madison, Kentland, Ind. Washing-machine	June 22, 1875	871	284	7	1076
165, 115	Same..... Check-row attachment for corn-planters	June 29, 1875	1214	391	7	1128
170, 105	Newton, Mary, Eau Claire, Wis., assignor of one-half interest to James Barnett, Oronoco, Minn. Fluting-iron	Nov. 16, 1875	774	245	8	851
166, 474	Newton, Stephen S., Binghamton, N. Y. Nursery-chair seat	Aug. 10, 1875	294	88	8	248
167, 113	Same..... Lamp	Aug. 24, 1875	911	284	8	353
169, 187	Same..... Oiler	Oct. 26, 1875	846	276	8	708
171, 304	Same..... Bottle-stopper	Dec. 21, 1875	641	210	8	1050
171, 305	Same..... Extinguishing fires in buildings	Dec. 21, 1875	642	210	8	1050
171, 628	Same..... Fire-extinguisher	Dec. 28, 1875	971	310	8	1104
168, 278	Newton, William H., Madison, Wis. Dredging apparatus	Sept. 28, 1875	857	273	8	550
8, 132	Ney, Elemir J., Dracut, Mass., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	Feb. 23, 1875			7	302
8, 133	Same..... same	Feb. 23, 1875			7	302
8, 134	Same..... same	Feb. 23, 1875			7	302
8, 135	Same..... same	Feb. 23, 1875			7	302
8, 136	Same..... same	Feb. 23, 1875			7	302
8, 137	Same..... same	Feb. 23, 1875			7	302
8, 138	Same..... same	Feb. 23, 1875			7	302
8, 139	Same..... same	Feb. 23, 1875			7	302
8, 140	Same..... same	Feb. 23, 1875			7	302
8, 141	Same..... same	Feb. 23, 1875			7	302
8, 142	Same..... same	Feb. 23, 1875			7	302
8, 143	Same..... same	Feb. 23, 1875			7	302

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8, 144	Ney, Elemir J., Dracut, Mass., assignor to Hartford Carpet Company, Hartford, Conn. Carpet	Feb. 23, 1875			7	302
8, 145	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 146	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 147	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 148	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 149	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 150	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 151	Same..... same..... (Design)	Feb. 23, 1875			7	302
8, 535	Same..... same..... (Design)	July 27, 1875			8	149
8, 536	Same..... same..... (Design)	July 27, 1875			8	149
8, 537	Same..... same..... (Design)	July 27, 1875			8	149
8, 538	Same..... same..... (Design)	July 27, 1875			8	149
8, 539	Same..... same..... (Design)	July 27, 1875			8	149
8, 540	Same..... same..... (Design)	July 27, 1875			8	149
8, 541	Same..... same..... (Design)	July 27, 1875			8	149
8, 542	Same..... same..... (Design)	July 27, 1875			8	149
8, 543	Same..... same..... (Design)	July 27, 1875			8	149
8, 544	Same..... same..... (Design)	July 27, 1875			8	149
8, 545	Same..... same..... (Design)	July 27, 1875			8	149
8, 687	Same..... same..... (Design)	Oct. 5, 1875			8	560
169, 656	Ney, John, jr., Ellice, assignor to self and Aaron Ely, Berlin, Canada. Machine for catching Colorado bugs	Nov. 9, 1875	335	106	8	786
170, 185	Neynaber, Adolphus F. W. and William F. A., New York, N. Y. Pill-coating machine.	Nov. 23, 1875	872	273	8	871
162, 094	Neynaber, William F. A. (See Neynaber, Adolphus F. W. and William F. A.)					
	Nichol, Thomas M., Sparta, Ill. Gang-plow	Apr. 13, 1875	447	149	7	642
	Nicholas Muller's Sons. (See Kitchelt, Charles, assignor)..... (Design.)					
159, 705	Nicholls, D. P., et al. (See Thomas & Parker, assignors.)					
	Nicholls, Reuben, Philadelphia, Pa. Organ pneumatic action	Feb. 9, 1875	438	147	7	253
166, 887	Nichols, Albert T., Williamsport, Pa. Sawing-machine	Aug. 17, 1875	682	211	8	312
	Nichols, B. S., et al. (See Woodbury, Leander S., assignor.)					
170, 584	Nichols, Charles B., Troy, Pa. Grain-separator	Nov. 30, 1875	1251	394	8	932
162, 683	Nichols, G. Clarke, Binghamton, N. Y. Clamp for cement-pipes	Apr. 27, 1875	1037	331	7	730
169, 570	Nichols, George, Brooklyn, N. Y. Blind-slat adjuster	Nov. 2, 1875	231	76	8	766
169, 028	Nichols, George E., Memphis, Tenn. Combined desk and baggage-check box	Oct. 19, 1875	682	224	8	676
158, 863	Nichols, Gorton W., Chicago, Ill. Pneumatic dental plugger	Jan. 19, 1875	491	165	7	107
162, 251	Nichols, Henry S., Lynn, Mass. Interfering-pad for horses	Apr. 20, 1875	613	200	7	670
169, 468	Nichols, James H., Boston, Mass. Tailor's pattern	Nov. 2, 1875	133	42, 43	8	753
	Nichols, John A. (See Piper & Nichols.)					
161, 265	Nichols, John G., New Eureka, Kans. Sewing-machine shuttle	Mar. 23, 1875	956	311	7	504
168, 521	Nichols, John M., Nashua, N. H. Wax-thread sewing-machine	Oct. 5, 1875	183	59	8	590
	Nichols, Norris, et al. (See Horton, William H., assignor.)					
170, 962	Nichols, Oldin, Medford, Mass. Prepared leather	Dec. 14, 1875	290	98	8	997
166, 625	Nichols, Reuben E., Philadelphia, Pa. Permanent way for railways	Aug. 10, 1875	420	130	8	266
164, 200	Nichols, Robert C., Boston, Mass. Fastenings for wearing-apparel	June 8, 1875	338	116	7	988
	Nichols, S. B., et al. (See Thomas & Parker, assignors.)					
162, 682	Nichols, William H., assignor to Bevin Brothers Manufacturing Company, East Hampton, Conn. Revolving chime-bell	Apr. 27, 1875	1036	330	7	730
158, 861	Nichols, William T., Chicago, Ill. Road-scraper	Jan. 19, 1875	489	{ 164 165 }	{ 7 7 }	{ 107 107 }
	Nicholson File Company. (See Nicholson, William T., assignor.)					
	Nicholson, Francis P., et al. (See Marshall, Charles G., assignor.)					
	Nicholson, Francis P. (See Noble, Charles, assignor.)					
	Nicholson, Francis P., et al. (See Vedder & Heister, assignors)..... (Design.)					
160, 458	Nicholson, Granville, Brooklyn, N. Y. Window-ventilator	Mar. 2, 1875	181	63	7	374
171, 241	Nicholson, John, jr., Pittsburgh, Pa. Glass-furnace	Dec. 21, 1875	584	192	8	1043
158, 862	Nicholson, John, jr., assignor to Ragot De Monthureux Gas Company, Pittsburgh, Pa. Reverberating furnace	Jan. 19, 1875	490	165	7	107
164, 656	Nicholson, William T., assignor to Nicholson File Company, Providence, R. I. Apparatus for tempering files	June 22, 1875	781	256	7	1064
	Nickel, Charles. (See Hipp, Wehagen & Nickel.)					
169, 832	Nickelson, Samuel, Gallatin, Tenn. Barber's shears	Nov. 9, 1875	515	161	8	809
6, 486	Nickerson, Albert E., and Levi C. Streeter, Allegheny Township, Pa. Means for pumping wells	June 15, 1875	749	244	7	1051
	Same..... same..... (Reissue)	Apr. 20, 1875	763	247	7	688
162, 406	Same..... same.....	June 22, 1875	872	284	7	1076
164, 656	Same..... same.....	Sept. 14, 1875	279	88	8	453
167, 683	Nickerson, Maranda R., and Nathan M. Tripp, South Wareham, Mass. Baby-walker					
	Nickerson, Ziba. (See Murdock, John, assignor.)					
165, 116	Niedermair, George, assignor of one-half interest to Charles Kopp, Chicago, Ill. Lamp-chimney	June 29, 1875	1215	391	7	1128
161, 266	Niehaus, Friedrich W., Saint Louis, Mo. Piano-forte agraffe	Mar. 23, 1875	957	312	7	504
166, 291	Nielsen, Christen, South Brooklyn, N. Y. Vehicle-spring	Aug. 3, 1875	98	30	8	213
158, 968	Nielsen, Waldemar B., Malmo, Sweden. Machine for cutting splints for matches	Jan. 19, 1875	594	197	7	121
158, 969	Niermann, Henry, and Frederick Schleeter, Saint Louis, Mo. Washing-machine	Jan. 26, 1875	595	198	7	121
	Niles, Samuel D., et al. (See Bonney, William A., assignor.)					
166, 475	Niles, William F., Leominster, Mass. Process of manufacturing articles from horn and hoof	Aug. 10, 1875	295		8	248
164, 866	Nilson, Nils, Minneapolis, Minn. Car-coupling	June 22, 1875	978	316	7	1089
	Niman, James A., et al. (See Stevens, William K., assignor.)					
	Ninan, John B., et al. (See Stevens, William K., assignor.)					
160, 944	Nittinger, August, jr., Philadelphia, Pa. Meat-chopper	Mar. 16, 1875	647	211	7	455
163, 798	Nittinger, Henry E., assignor of one-half interest to Samuel Nittinger, Philadelphia, Pa. Carriage-jack	May 25, 1875	1017	322	7	911
	Nittinger, Samuel. (See Nittinger, Henry E., assignor.)					
163, 602	Noack, Oswald, Baltimore, Md. Crimping-machine	May 25, 1875	854	269	7	889
	Noble, Charles, et al. (See Marshall, Charles G., assignor.)					
	Same..... (See Vedder & Heister, assignors)..... (Design.)					
160, 222	Noble, Charles, assignor to Charles Noble, M. D., Charles Noble, and Francis P. Nicholson, Philadelphia, Pa. Heating-stove	Feb. 23, 1875	940	309	7	334
	Noble, Edmond D. (See Wilson & Noble.)					
170, 888	Noble, John C., assignor to self and Mary Loveland, Brooklyn, N. Y. Kitchen utensil	Dec. 7, 1875	204	71	8	978
	Noble, O. L., et al. (See Prosser, Treat T., assignor.)					
	Noble, Oscar L. (See Orcutt, William D., assignor.)					
	Noble, Oscar L., et al. (See Prosser, Treat T., assignor.)					
158, 510	Nobles, Milton V., deceased, by John C. Clark, administrator, and assignor to Elmira Steam Engine Company, Elmira, N. Y. Reciprocating steam-engine	Jan. 5, 1875	141	47	7	28

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Nodine, Alonzo, <i>et al.</i> (See Nodine, Frederick J., assignor.)					
	Nodine, Charles, <i>et al.</i> (See Nodine, Frederick J., assignor.)					
160, 344	Nodine, Frederick J., assignor to Charles, Alonzo, and Robert H. Nodine, Brooklyn, N. Y. Rubber-covered snaffle-bit.....	Mar. 2, 1875	78	27	7	360
	Nodine, Robert H., <i>et al.</i> (See Nodine, Frederick J., assignor.)					
169, 030	Nodde, George G., New Berlin, Ohio. Sash-fastener.....	Oct. 19, 1875	684	225	8	677
162, 407	Noe, Andrew J., Mitchell, Ind. Lard and cheese press.....	Apr. 20, 1875	763	247	7	688
166, 801	Noe, Charles L., Bergen Point, N. J. Traverse-motion.....	Aug. 17, 1875	601	186	8	301
159, 605	Noell, Chesley T., assignor to self and Uriel Griffith, Clarksville, Mo. Hay-gatherer.....	Feb. 9, 1875	347	115	7	241
	Nogel, Edwin C., <i>et al.</i> (See Raw, John W., assignor.)					
	Nolan, George. (See Bobet, Adolph L., assignor.)					
159, 205	Nolan, Patrick W., New York, N. Y. Folding chair.....	Jan. 26, 1875	833	274	7	161
163, 233	Noland, John, and Charles Neidich, Oil City, Pa. Coffee-pot and tea-pot.....	May 11, 1875	477	155	7	817
171, 306	Nolin, Ernest J., Chicago, Ill. Envelope.....	Dec. 21, 1875	644	211	8	1051
171, 307	Nolton, Lyman, Hillsdale, Mich. Carpet-stretcher.....	Dec. 21, 1875	644	211	8	1051
159, 706	Noonan, Burnett J., Charleston, Mo. Nut-lock.....	Feb. 9, 1875	439	147	7	253
163, 393	Noonan, Edward, La Salle, Ill. Truck for brick-yards.....	May 18, 1875	645	206	7	855
166, 133	Noonan, Timothy, Boston, Mass. Spring-bottom for chairs.....	July 27, 1875	994	307	8	182
163, 940	Norcross, Joseph W., East Boston, Mass. Mast and sail of vessels.....	June 1, 1875	85	29	7	942
163, 941	Same. Construction of vessels.....	June 1, 1875	86	29	7	943
8, 152	Nordmann, Henry, New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet..... (Design).....	Feb. 23, 1875			7	302
8, 153	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 154	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 155	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 156	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 157	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 158	Same. same..... (Design).....	Feb. 23, 1875			7	302
8, 159	Same. same..... (Design).....	Feb. 23, 1875			7	302
164, 585	Nordstrom, Gustavus V., and George S. Hutchings, Boston, Mass. Organ-valve.....	June 15, 1875	706	230	7	1045
162, 408	Nordyke, Addison H., Richmond, Ind. Bolting-reel..... (Design).....	Apr. 20, 1875	764	247	7	688
	Norman, Henry. (See Haebnel & Norman)					
6, 283	Norman, James, North Springfield, Mo. Tool for dressing millstones..... (Reissue).....	Feb. 9, 1875	475	159	7	259
170, 889	Norman, Leslie R., Saint Louis, Mo. Indicator-lock..... (Design).....	Dec. 7, 1875	205	71	8	978
169, 369	Norris, Albion K., Chicago, Ill. Carrying-jack.....	Nov. 2, 1875	49	15	8	741
165, 360	Norris, Charles F., and Peter J. Hickey, New York, N. Y. Bung for barrels.....	July 6, 1875	198	59	8	36
167, 015	Norris, Daniel W., and Newell E. Woods, Elgin, Ill.; said Norris assignor to Frank Woods, Pittsburgh, Pa. Wringer.....	Aug. 24, 1875	820	255	8	341
169, 833	Norris, Frederick, and Clayton E. Sweet, Wappinger's Falls, N. Y. Truss.....	Nov. 9, 1875	515	161	8	809
	Norris, George S. (See Gray, John J., assignor.)					
158, 511	Norris, John B., Baltimore, Md. Carpet-sweeper.....	Jan. 5, 1875	142	48	7	29
164, 201	Norris, John B., Marcus M. Bowers, and William C. Dimmock, Richmond, Va. Plow.....	June 8, 1875	338	116	7	988
165, 361	Norris, Robert, assignor of one-half interest to Cornwall and Wallace Kirkpatrick, Anna, Ill. Lamp-chimney.....	July 6, 1875	199	60	8	36
	Norris, William R. (See Howes, Orson G., assignor)..... (Reissue).....					
	North & Co., O. B. (See Dudley, Charles, assignor.)					
	North and Judd Manufacturing Company. (See Judd, Lorin F., assignor.)					
164, 757	North, Charles H., Somerville, Mass. Cooler and condenser or heater.....	June 22, 1875	872	284	7	1076
165, 172	Same. Fertilizer.....	July 6, 1875	30		8	12
	North, F. H. (See Pillard, Oliver E., assignor.)					
162, 409	North, John, Southington, Conn. Steam-pump.....	Apr. 20, 1875	765	248	7	688
161, 630	North, William C., Cleveland, Ohio. Ventilating-faucet.....	Apr. 6, 1875	36	14	7	574
169, 284	Same. Faucet.....	Oct. 26, 1875	936	304	8	719
8, 704	Northrup, Frank, assignor to self and Robert A. Little, Detroit, Mich. Provision-safe..... (Design).....	Oct. 5, 1875			8	561
170, 638	Northrup, Henry S., Quasqueton, Iowa. Pearl-barley mill.....	Nov. 30, 1875	1304	412	8	939
	Northrup, Stiles S. (See Thorson, Lewis E., assignor.)					
163, 683	Norton, Arthur C., Monona, Iowa. Clamp for grinding watch-crystals.....	May 25, 1875	919	292	7	898
166, 134	Norton, Charles, Philadelphia, Pa. Punching-machine.....	July 27, 1875	994	307	8	182
	Norton, Edward M., <i>et al.</i> (See Roberts, Edward J., assignor.)					
163, 394	Norton, Edwin, Chicago, Ill. Spice-box.....	May 18, 1875	645	206	7	855
163, 395	Same. Packing cigars.....	May 18, 1875	646	207	7	855
164, 472	Norton, Jabez E., assignor to Taylor and Farley Organ Company, Worcester, Mass. Organ-reed.....	June 15, 1875	612	198	7	1032
164, 867	Norton, James, Middlebury, Vt. Wrench.....	June 22, 1875	979	316	7	1089
163, 799	Norton, James L., London, assignor to Gerald Hopper, Camberwell, England. Loom.....	May 25, 1875	1017	322 } 323 }	7	911
166, 292	Norton, Lorenzo B., New Haven, Conn. Reed-organ stop-action.....	Aug. 3, 1875	99	31	8	213
160, 838	Norton, Mason S., assignor to Jesse E. Harriman, Bangor, Me. Machine for sawing laths.....	Mar. 16, 1875	557	181	7	442
164, 930	Norton, Otis, New Britain, Conn. Manufacture of shears.....	June 29, 1875	1058	340	7	1107
	Norwalk Lock Company. (See Elwell, Henry H., assignor.)					
167, 192	Norwood, Granville M., Beverly, Mass. Solution for cleaning gold, silver, &c.....	Aug. 31, 1875	1006		8	374
161, 701	Norwood, John E., Boston, Mass. Bench-plane.....	Apr. 6, 1875	95	33	7	583
	Notbohm, Edward C. (See Notbohm, Harman F., assignor.)					
167, 619	Notbohm, Harman F., assignor of one-half interest to Edward C. Notbohm, Milwaukee, Wis. Middlings-purifier.....	Sept. 14, 1875	225	70	8	445
163, 234	Noteman, Barton P., Olathe, Kans. Spring bed-bottom.....	May 11, 1875	478	155	7	817
165, 117	Nott, Aaron B., assignor of part interest to D. and William J. Frawley, G. H. Bowen, and William Rounselle, Fairhaven, Mass. Combined fork and skimmer.....	June 29, 1875	1215	391	7	1128
	Nottingham, Thomas J. (See Frisbee, John L., assignor.)					
160, 459	Nottingham, T. J., Cincinnati, Ohio. Gage-cock.....	Mar. 2, 1875	182	63	7	374
	Novelty Paper Box Company. (See Heyl & Brehner, assignors)..... (Reissue).....					
169, 188	Novinsky, Joseph, assignor of one-half interest to Mathias Swehla, Chicago, Ill. Tray for beer-glasses, &c.....	Oct. 26, 1875	847	276	8	708
162, 410	Nowotny, Franz S. W., Dresden, Saxony. Locomotive running-gear.....	Apr. 20, 1875	766	249	7	688
	Noxon, B. Davis. (See Otto, Carl C. F., assignor.)					
	Noyes, Baxter B. (See Stratton & Noyes.)					
162, 301	Noyes, George E., Washington, D. C. Ore-crusher.....	Apr. 20, 1875	657	214	7	675
	Noyes, J. W., <i>et al.</i> (See Bell, A. John, assignor)..... (Reissue).....					
161, 817	Noyes, La Verne W., Springville, Iowa. Farm-gate.....	Apr. 6, 1875	197	66	7	597
	Noyes, Person. (See Kidder, Moses W., assignor.)					
167, 778	Noyes, Warren, Gorham, N. H. Cartridge-loading device.....	Sept. 14, 1875	369	117	8	465
171, 037	Nugent, Edward, Brooklyn, N. Y. Screw-threading machine.....	Dec. 14, 1875	258	119	8	1005

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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166, 715	Nugent, Richard C., assignor of two-thirds interest to William R. Spickler and Henry H. Hendrick, Dayton, Ohio. Machine for turning flanges on boiler-heads	Aug. 17, 1875	524	160	8	290
166, 716	Nugent, Richard C., assignor of one-half interest to George W. Hoglen and Charles E. Pease, Dayton, Ohio. Screw-cutting die	Aug. 17, 1875	525	161	8	290
158, 729	Numeyer, Henry, Millerstown, Pa. Hand fire-engine	Jan. 12, 1875	349	118	7	73
165, 249	Nunn, Lucien L. (See King & Nunn.)					
	Nunnelee, James D. L., Centreville, Tenn., and Wellington H. Kirksey, Booneville, Miss. Hame	July 6, 1875	99	29	8	22
166, 027	Nutsford, William G., and William Glasgow, Chicago, Ill. Rotary hair-brush	July 27, 1875	890	275	8	167
168, 175	Nutt, John A. (See Anniu & Nutt.)					
	Nutt, Joseph, Danbury, Conn. Hat-pouncing roll	Sept. 28, 1875	766	243	8	538
	Nuttall, Isaac. (See Stevenson & Nuttall.)					
	Nuttall, William. (See Isherwood & Nuttall.) (Reissue.)					
161, 631	Nutting, George E., and Joseph C. Githens, New York, N. Y. Steam rock-drill	Apr. 6, 1875	37	14	7	574
162, 302	Same. Tripod for steam rock-drills	Apr. 20, 1875	658	214	7	675
167, 464	Nutting, Rufus, Wheaton, Ill. Fly-trap	Sept. 7, 1875	74	23	8	416
169, 916	Same. Lantern	Nov. 16, 1875	606	188	8	828
	Nuttman, James E. (See Cook, Thomas, assignor.)					
	Nye, Anselm T., jr. (See Hancock, Thomas, assignor.)					
169, 726	Nye, Asa, jr., Boston, Mass. Feed-bag for horses	Nov. 9, 1875	407	129	8	796
165, 683	Nye, Charles H., New York, N. Y., and Edward Zapf, assignors to Henry Nye, Cincinnati, Ohio. Conductor's punch	July 20, 1875	549	167	8	108
	Nye, Francis C. (See Foster, John T., assignor.)					
	Nye, Henry. (See Nye & Zapf, assignors.)					
163, 396	Nye, Jacob B. and John W. B., Swatara Post Office, Pa. Feed-cutter	May 18, 1875	646	207	7	855
	Nye, John W. B. (See Nye, Jacob B. and John W. B.)					
170, 762	Nye, Joseph W., Lynn, Mass. Seat for bath-tubs	Dec. 7, 1875	101	32	8	964
6, 678	Nye, Sherman R., Winchendon, Mass. Horse-rake	Oct. 5, 1875	222	72	8	595
6, 679	Nye, Sherman R., assignor to self and Andrew B. Barnard, Winchendon, Mass. Horse-rake	Oct. 5, 1875	223	72, 73	8	595
165, 173	Nye, William L., Boston, Mass. Machine for stringing tags	July 6, 1875	31	9	8	12
167, 684	Nystrom, John W., Philadelphia, Pa. Burning hydrocarbon	Sept. 14, 1875	280	88	8	453
169, 917	Same. Eye-piece for telescopes	Nov. 16, 1875	608	188	8	829
	Oak, Alexander. (See Wieterhold & Oak.)					
159, 113	Oakes, Hildebrand H., Mineral Hill, Nev. Quicksilver-strainer	Jan. 26, 1875	751	247	7	149
166, 217	Oakley, John M., assignor of one-half interest to John Keating, Brooklyn, N. Y. Washing-machine	Aug. 3, 1875	30	10	8	203
164, 321	Oatman, Charles D., New York, N. Y. Folding chair	June 8, 1875	457	151	7	1003
6, 225	Obenchain, Washington, Logansport, Ind. Balanced slide-valve	Jan. 12, 1875	396	134	7	79
168, 406	Ober, Franklin S., Washington, D. C., assignor to self and Walton Brothers, New York, N. Y. Ratchet-wrench	Oct. 5, 1875	78	27	8	576
	Ober, Granville R., et al. (See Arms, John L., assignor.)					
165, 684	Ober, Reuben H., Garrettsville, Ohio. Chair-spring attachment	July 20, 1875	550	168	8	108
158, 730	Oberndorf, Abraham, jr., and Ernest Frank, Baltimore, Md. Fire-escape ladder	Jan. 12, 1875	350	119	7	73
	O'Brien Brothers Manufacturing Company. (See O'Brien, William S., assignor.) (Reissue.)					
171, 242	O'Brien, James H., Pittsburgh, Pa. Horse-detaching apparatus	Dec. 21, 1875	586	192	8	1043
167, 779	O'Brien, Joseph, Kalamazoo, Mich. Artificial leg	Sept. 14, 1875	370	118	8	466
	O'Brien, Keran. (See Higgins, Charles M., assignor.)					
161, 147	O'Brien, Michael, San Francisco, Cal. Grain-separator	Mar. 23, 1875	842	274	7	489
160, 613	O'Brien, Patrick L., New York, N. Y. Stencil-cutter	Mar. 9, 1875	331	112	7	405
6, 606	O'Brien, William S., Kewanee, Ill., assignor to O'Brien Brothers Manufacturing Company. Harrow	Aug. 24, 1875	945	295	8	358
165, 406	O'Bryan, Terrence, Barnard, Mo. Machine for cutting corn-stalks	July 13, 1875	364	107	8	66
160, 045	Ockershausen, George P., New York, N. Y. Sugar-cutting machine	Mar. 16, 1875	648	211	7	455
166, 403	Same. Sugar-sawing machine	Aug. 3, 1875	204	61	8	227
167, 268	O'Connor, Deming L., Covels, Cal. Baling-press	Aug. 21, 1875	1070	333	8	383
164, 322	O'Dell, Abiel, Liverpool, Ohio. Washing-machine	June 8, 1875	458	151	7	1003
163, 515	Odell, Albert P., Oil City, Pa. Oil-car	May 18, 1875	760	241	7	870
169, 460	Odell, Henry, Peekskill, N. Y. Motor	Mar. 2, 1875	182	63	7	374
160, 461	Same. Motor for churns, &c.	Mar. 2, 1875	183	63	7	375
166, 557	Odell, Levi J., Fairbury, Ill. Check-rower	Sept. 7, 1875	156	49	8	428
158, 512	Odell, Rodney P., jr., Parma Center, assignor of one-half interest to Simeon K. Odell, North Greece, N. Y. Cultivator-tooth	Jan. 5, 1875	143	48	7	29
	Odell, Simeon K. (See Odell, Rodney P., jr., assignor.)					
166, 545	Odell, Thomas L., Iowa Falls, Iowa. Bed-bottom	Aug. 10, 1875	350	107	8	256
168, 664	Same. Bed-slat	Oct. 11, 1875	343	112	8	621
167, 193	O'Donnell, Timothy, and Edward K. Walker, Exeter, N. H. Stop-motion for cotton-spinning machinery	Aug. 31, 1875	1007	313	8	374
165, 174	O'Donohue, Joseph J., Baltimore, Md. Automatically-cleaning water-closet	July 6, 1875	33	9	8	13
168, 102	Oefele, Edgar V., München, Germany. Steam-engine	Sept. 28, 1875	697	220	8	528
161, 148	Oehmler, Rudolph C., Allegheny, Pa. Bronze-liquid	Mar. 23, 1875	853		7	489
168, 665	Oehrlin, John, New York, N. Y. Violin, guitar, &c.	Oct. 11, 1875	343	112	8	621
166, 028	Oesterlein, William, Cincinnati, Ohio. Paper bag	July 27, 1875	891	275	8	167
162, 848	Ofeldt, Frank W., assignor to self and George W. Hall, Newark, N. J. Gas apparatus for carbureting air	May 4, 1875	100	33	7	760
	Ogan, Philip M. (See Robinson, Samuel F., assignor.)					
162, 493	Ogborn, Harrison, Richmond, Ind., and Tunis T. Kendrick, New York, N. Y. Hand corn-planter	Apr. 27, 1875	865	277	7	709
163, 516	Same. Grain-separator	May 18, 1875	761	241	7	870
163, 603	Ogborn, Harrison, assignor to Samuel Watson, Richmond, Ind. Hog-trap	May 25, 1875	855	270	7	889
163, 684	Ogborn, Harrison, Richmond, Ind., and Tunis T. Kendrick, New York, N. Y. Invalid-bed bottom	May 25, 1875	919	292	7	898
168, 342	Same. Bedstead	Oct. 5, 1875	21	8	8	567
166, 546	Ogden, Richard L., San Francisco, Cal. Carriage	Aug. 10, 1875	351	108	8	256
	Ogden, William L., et al. (See Kahler, Conrad, assignor.)					
	O'Hara, James. (See Purdy, Zachariah V., assignor.)					
164, 323	O'Hara, Lewis, Oswego, N. Y. Lifting-jack	June 8, 1875	458	151	7	1003
165, 250	O'Hara, Richard C., Houston, Tex. Car-brake	July 6, 1875	99	29	8	22
159, 206	O'Hara, Walter, Fall River, Mass. Covering for boilers, pipes, &c.	Jan. 26, 1875	834		7	161
160, 223	Ohm, Ernst, Terre Haute, Ind. Device for hitching horses	Feb. 23, 1875	941	309	7	334
163, 235	Ohm, Henry P., assignor of one-half interest to Alva Hubbard, Baltimore, Md. Fire-place stove	May 11, 1875	479	155	7	817
163, 800	Same. Stove-grate	May 25, 1875	1020	323	7	912

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 773	Ohmer, John F., Dayton, Ohio. Furniture-caster.....	Oct. 11, 1875	437	142	8	634
168, 407	O'Kane, James, New York, N. Y. Marking-implement.....	Oct. 5, 1875	80	27	8	576
160, 541	Old, James, Pittsburgh, Pa. Fire-place fender.....	Mar. 9, 1875	270	92	7	396
160, 542	Same..... Cooking-range.....	Mar. 9, 1875	270	92	7	396
168, 770	Old, James, Allegheny, Pa. Grate for furnaces.....	Oct. 11, 1875	433	141	8	634
168, 771	Same..... Grate and stove front.....	Oct. 11, 1875	435	141	8	634
164, 868	Olden, William P., Springfield, Ill. Nut-lock.....	June 22, 1875	979	316	7	1089
167, 355	Oldershaw, John B., Baltimore, Md. Heating and ventilating register.....	Aug. 31, 1875	1145	360	8	393
168, 772	Same..... Fire-place heater.....	Oct. 11, 1875	436	142	8	634
162, 188	Oldfield, Edwin, Norwich, Conn. Warp-beam for looms.....	Apr. 20, 1875	554	182	7	662
164, 473	Olds, Barnard L., Highgate, Vt. Horse-power link.....	June 15, 1875	612	198	7	1032
	Olds, Clark. (See Olds, Lewis W. and Clark.)..... (Reissue.)					
6, 543	Olds, Lewis W. and Clark, Erie, Pa. Link for connecting the handles and pitmen of pumps..... (Reissue.)	July 13, 1875	518	158	8	88
168, 103	O'Leary, Arthur J., and John Turner, Chicago, Ill. Machine for welding railway-frogs.....	Sept. 28, 1875	698	220	8	528
	Oleson, I. F., et al. (See Peeler, Abner, assignor.)					
	Oleson, Nelson. (See Erikson, John, assignor.)					
163, 397	Oliphant, John, Allegheny, Pa. Car heater and ventilator.....	May 18, 1875	648	207	7	855
166, 802	Oliver, Ebenezer, New York, N. Y. Animal-trap.....	Aug. 17, 1875	602	186	8	301
165, 858	Oliver, Fred. L., Friendship, N. Y. Milk-strainer.....	July 20, 1875	721	219	8	131
6, 642	Oliver, James, South Bend, Ind. Casting mold-boards..... (Reissue.)	Sept. 14, 1875	410	131	8	472
6, 647	Same..... Chill for casting mold-boards..... (Reissue.)	Sept. 14, 1875	415	132	8	472
167, 855	Oliver, James H., Baltimore, Md. Attachment to shoe-pegging machines.....	Sept. 21, 1875	454	144	8	486
	Oliver, John Q. A. (See Beckwith & Brown, assignors.)					
159, 525	Oliver, John S., New York, N. Y. Manufacture of sugar.....	Feb. 9, 1875	288	93	7	231
	Oliver, Paul A. (See Egge, Fredrick, assignor.)					
	Same..... (See Smith & Egge, assignors.)					
167, 465	Oliver, Paul A., Wilkesbarre, Pa. Cartridge-case for blasting.....	Sept. 7, 1875	75	23	8	417
159, 768	Oliver, William L., Rantoul, Ill. Governor for windmills.....	Feb. 16, 1875	513	172	7	269
	Olmstead, Chauncey L., et al. (See Waterman, Julius, assignor.)					
163, 685	Olmstead, Chauncey L., West Brookfield, Mass., assignor to self and Waterman & Mayer, New York, N. Y. Corset.....	May 25, 1875	929	293	7	898
164, 474	Olmstead, Stark, Brooks, Ind. Portable fence.....	June 15, 1875	613	198	7	1032
169, 469	Same..... Feed-boiler.....	Nov. 2, 1875	134	43	8	753
	Olmsted, George. (See Stratton & Olmsted.)					
167, 689	Olmsted, Joseph, assignor of one-half interest to Charles G. McKnight and George Chatterton, Providence, R. I. Electro-magnetic telegraph.....	Sept. 14, 1875	281	89	8	453
170, 963	Olmsted, Joseph, Providence, R. I. Quadruplex telegraph.....	Dec. 14, 1875	291	98	8	997
168, 176	Olmsted, Oscar B., Beloit, Wis. Machine for punching pipes.....	Sept. 28, 1875	767	243	8	538
168, 522	Olsen, Engelbrecht, Jacob City, Utah. Chip for rope tramways.....	Oct. 5, 1875	185	59	8	590
166, 626	Olsen, Halvor and Knud, Token Creek Post Office, Wis. Ditching-machine.....	Aug. 10, 1875	421	130	8	267
	Olsen, Knud. (See Olsen, Halvor and Knud.)					
159, 957	Olsen, Tinius, Philadelphia, Pa. Casting scale-levers.....	Feb. 16, 1875	688	229	7	291
164, 025	Olson, Holcom, Mount Pleasant, Iowa. Plow.....	June 1, 1875	156	55	7	952
161, 435	Olson, Michael, Eau Claire, Wis. Bag-holder.....	Mar. 30, 1875	1131	364	7	534
160, 698	Olson, William, Sacramento, Cal. Clothes-sprinkler.....	Mar. 9, 1875	406	136	7	416
159, 348	Olsson, Axel, assignor to self, J. W. Coe, and D. Merritt, Williamsburgh, N. Y. Thill-coupling.....	Feb. 2, 1875	98	34	7	197
167, 466	Onan, James B., Pecan Point, Ark. Cotton-planter.....	Sept. 7, 1875	76	23	8	417
167, 467	O'Neal, William J., Newport, Ky. Feeding air to furnaces.....	Sept. 7, 1875	76	23	8	417
159, 958	O'Neil, John, assignor of one-half interest to Theron D. Fuller and Julian Wood, New York, N. Y. Sewing-machine.....	Feb. 16, 1875	689	229	7	291
6, 232	O'Neil, John K., Canton, Ohio. Straw-cutter..... (Reissue.)	Jan. 12, 1875	403	135	7	80
	O'Neil, Michael H. (See Harris & O'Neil.)					
163, 942	O'Neill, Andrew, Ansonia, Conn. Art of laying street-mains.....	June 1, 1875	87	30	7	943
168, 916	O'Neill, Charles Z., Boston, Mass. Calendar.....	Oct. 19, 1875	580	191	8	663
171, 308	Same..... same.....	Dec. 21, 1875	645	211	8	1051
171, 038	O'Neill, John C., Saint Louis, Mo. Base-ball base.....	Dec. 14, 1875	259	119	8	1006
161, 894	O'Neill, Peter J., Boston, Mass. Reed-organ action.....	Apr. 13, 1875	279	94	7	620
168, 408	Onions, Charles H., Pittsburgh, Pa. Annealing-box.....	Oct. 5, 1875	81	28	8	576
	Onondaga Pottery Company. (See Copeland, Thomas H., assignor)..... (Design.)					
162, 494	Oot, Adam, Oswego, N. Y. Churn.....	Apr. 27, 1875	866	278	7	709
168, 279	Oothoudt, Josiah, Z. M. P. Haberlin, and Eli M. Sweet, Minneapolis, Minn. Spring bed-bottom.....	Sept. 22, 1875	858	273	8	550
	Openheimer, Louis M. (See Garrett, Charles C., assignor.)					
165, 497	Opp, Henry, Belleville, Ill. Gang-plow.....	July 13, 1875	364	108	8	66
	Oppenheimer, Joseph D. (See Baxter, James M., assignor.)					
168, 523	Oppenheimer, Solomon, Newark, N. J. Child's carriage.....	Oct. 5, 1875	185	60	8	590
158, 970	Opperman, Henry, and Alexander Black, Steubenville, Ohio. Hoisting-apparatus.....	Jan. 19, 1875	596	198	7	121
	Oquist, John, et al. (See Tinnerholm, Charles J., assignor.)					
159, 606	Orcutt, Charles H., Leominster, assignor to Joseph A. Harwood, Littleton, and Nahum Harwood, Leominster, Mass. Machine for skiving counter-stiffeners for boots and shoes.....	Feb. 9, 1875	348	115	7	241
171, 414	Orcutt, William D., Boston, Mass., assignor to self and Oscar L. Noble. Pegging-machine for boots and shoes.....	Dec. 21, 1875	740	243	8	1064
167, 468	Ord, Jonathan, Pittsburgh, Pa. Reversing-gear for locomotives.....	Sept. 7, 1875	77	24	8	417
168, 177	Ordway, Alvin F., Beaver Dam, Wis. Middlings-purifier.....	Sept. 28, 1875	768	243	8	538
167, 924	Orgill, John, assignor to self and Jeremy W. Bliss, Hartford, Conn. Paper-hanger's table.....	Sept. 21, 1875	507	162	8	494
162, 761	Orlando, John, West Yarmouth, Mass. Strawberry-cultivator.....	May 4, 1875	23	8	7	750
163, 398	Orm, John, Paducah, Ky. Log-turner for saw-mills.....	May 18, 1875	649	207	7	855
160, 790	Orme, Alexander, Chicago, Ill. Safety-valve.....	Mar. 16, 1875	519	167	7	437
163, 100	Orme, Alexander, and William H. Burk, Chicago, Ill. Feed-water heater.....	May 11, 1875	357	116	7	801
168, 917	Ormiston, John C., Geneseo and Edmund S. Seger, Erie, Ill. Windmill.....	Oct. 19, 1875	581	192	8	663
167, 686	Ormond, Marcus, West Alexander, Pa. Plow.....	Sept. 14, 1875	282	89	8	453
162, 684	Ormsby, David G., Pewaukee, Wis. Lime-bin.....	Apr. 27, 1875	1037	331	7	731
163, 236	Ormsby, Leonard D., New York, N. Y. Device for locking ice-tongs, &c., to the wagon.....	May 11, 1875	480	156	7	817
158, 971	Orr, Gilbert J., New York, N. Y. King-bolt bearing.....	Jan. 19, 1875	597	198	7	121
163, 101	Same..... Automatic water-distributor.....	May 11, 1875	358	116	7	801
	Orr, Jesse, et al. (See Wemyss, Alexander, assignor)..... (Design.)					
161, 149	Orr, William T., Kewanee, Ill. Corn-harvester.....	Mar. 23, 1875	843	275	7	489
160, 627	Orsburn, Robert S., Newcastle, Pa. Torpedo for oil-wells.....	Aug. 10, 1875	422	130	8	267
161, 359	Orth, Susette, Pittsburgh, Pa. Artificial flower.....	Mar. 30, 1875	1048		7	524
162, 095	Ortmayer, Andrew, Chicago, Ill. Gig-saddle.....	Apr. 13, 1875	448	149	7	642

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168,844	Ortmayer, Andrew, Chicago, Ill. Gig-saddle tree.....	Oct. 19, 1875	512	168	8	653
171,415	Orton, Thomas, Chicago, Ill. Index-clip board.....	Dec. 21, 1875	741	243	8	1064
166,293	Orum, Morris L., Philadelphia, Pa. Device for bending metal pipes.....	Aug. 3, 1875	99	31	8	213
166,294	Same.....Mandrel for bending metallic tubing.....	Aug. 3, 1875	100	31	8	213
163,686	Orwig, Reuben G., Des Moines, Iowa. Washing-machine.....	May 25, 1875	921	293	7	898
160,614	Osborn, Charles S. and Edward, Newton, N. J. Spark-arrester for locomotives.....	Mar. 9, 1875	332	112	7	405
170,640	Osborn, David L., Ashland, Nebr. Windmill.....	Nov. 30, 1875	1306	412	8	939
	Osborn, Edward. (See Osborn, Charles S. and Edward.)					
159,836	Osborn, Francis M., Port Chester, N. Y. Dental reflector.....	Feb. 16, 1875	576	191	7	276
	Osborn, George H., et al. (See English, Nathan F., assignor.)					
169,571	Osborn, George R., East Orange, N. J., and Benjamin A. Drayton, New York, N. Y. Bird-cage hook.....	Nov. 2, 1875	232	76	8	766
171,309	Same.....Feed-cup for bird-cages.....	Dec. 21, 1875	645	211	8	1051
168,178	Osborn, Harrison V., and Robert Hay, Trenton, Mo. Clothes-drier.....	Sept. 28, 1875	769	244	8	538
	Osborn, Henry. (See Allen, James A., assignor.)					
158,972	Osborn, Henry E., Wallingford, Conn. Rack for electroplating.....	Jan. 19, 1875	597	198	7	121
164,758	Osborn, Luke W., Morgan and Edward D. Merriam, and Peter B. Doty, Conneaut, Ohio. Manufacture of artificial stone.....	June 22, 1875	873	.....	7	1076
162,942	Osborn, Ornan, Trumansburgh, N. Y. Sulky-plow.....	May 4, 1875	191	63	7	772
	Osborne & Co., D. M. (See Felt, Vanderlyn H., assignor.)					
8,166	Osborne, Charles, North Attleborough, Mass., assignor to Whiting Manufacturing Company, New York City. Fork and spoon handle.....(Case C. Design)	Feb. 23, 1875	.....	.....	7	302
8,414	Osborne, Charles, North Attleborough, Mass., assignor to Whiting Manufacturing Company. Ornamental border for silver-ware.....(Design)	June 22, 1875	.....	.....	7	1016
8,069	Osborne, Charles, North Attleborough, Mass., assignor to Whiting Manufacturing Company, New York, N. Y. Fork and spoon handle.....(Case B. Design)	Feb. 16, 1875	.....	.....	7	261
165,118	Osborne, Eugene F., Saint Paul, Minn. Steam-radiator.....	June 29, 1875	1216	391	7	1128
162,762	Osborne, Henry F., Newark, N. J. Leather-rounding machine.....	May 4, 1875	24	8	7	750
167,269	Osborne, Theodore B., New York, N. Y. Lantern.....	Aug. 31, 1875	1070	334	8	383
	Osborne, Thomas D. (See Le Grande, William W., assignor.)					
167,925	Osborne, Thomas D., and William W. Le Grande, Louisville, Ky. Watchman's time-check.....	Sept. 21, 1875	508	162	8	494
169,470	Osbourne, David K., Baltimore, Md. Pocket-book.....	Nov. 2, 1875	135	44	8	753
170,639	Same.....Paper box.....	Nov. 30, 1875	1305	412	8	939
	Osbourne, Absalom. (See Andrews, Tyler, assignor.)					
166,547	Osbourne, Hosea P., Milwaukee, Wis. Protector for boot and shoe straps.....	Aug. 10, 1875	351	108	8	257
	Osenbrück, Adolf. (See Osenbrück, Wilhelm, Adolf, and August.)					
	Osenbrück, August. (See Osenbrück, Wilhelm, Adolf, and August.)					
6,794	Osenbrück, Johannes A., Hemelingen, Germany. Lubricator.....(Reissue)	Dec. 14, 1875	534	176	8	1028
158,513	Osenbrück, Wilhelm, Adolf, and August, Bremen, Germany. Cigar-mold.....	Jan. 5, 1875	144	48	7	29
160,028	Osgood, Carmi, East Hardwick, Vt. Rein-holder.....	Feb. 23, 1875	775	256	7	310
169,285	Osgood, Enoch, Boston, Mass. Clasp for wearing-apparel.....	Oct. 26, 1875	937	304	8	719
160,345	Osgood, Galen N., Savannah, Ga. Bale-tie.....	Mar. 2, 1875	79	28	7	360
	Osgood, James R. (See Edwards, Ernest, assignor.)					
160,116	Osgood, John, Fort Edward, N. Y. Head-block for saw-mills.....	Feb. 23, 1875	849	{ 279 } 280	7	321
162,763	Osgood, Ralph R., Troy, N. Y., and Fred Brotherhood, Charleston, S. C. Dredging-machine.....	May 4, 1875	24	9	7	750
162,849	Osgood, Ralph R., Troy, N. Y. Dredging-machine.....	May 4, 1875	103	33	7	760
165,608	Same.....same.....	July 13, 1875	463	142	8	81
	Osgood, Warren F. (See Grimshaw & Osgood.)					
161,542	O'Shea, Andrew J., Jersey City, N. J. Registering device for stereotype-blocks.....	Mar. 30, 1875	1236	398	7	548
167,780	Same.....Printer's quoin.....	Sept. 14, 1875	371	118	8	466
159,114	Osten, Otto, North Bend, Oreg. Machine for cutting heads for barrels.....	Jan. 26, 1875	752	247	7	149
	Osterhout, Christian. (See Camp & Osterhout.)					
170,890	Osterspey, Peter, Mechernich, Prussia, assignor to Adolphus Meier & Co., Saint Louis, Mo. Ore-separator.....	Dec. 7, 1875	206	72	8	978
	Ostheimer, Alfred J. (See Dressler, Edward, assignor.)					
162,850	Ostrander, David R., Fountain Green, Ill. Farm-fence.....	May 4, 1875	104	34	7	761
162,943	Same.....Combined feed box and rack.....	May 4, 1875	192	63	7	772
	Ostrom, Lot. (See Murray, Gilbert and Ostrom.)					
166,548	O'Sullivan, Cornelius B., and Patrick Murphy, New Orleans, La. Apparatus for lubricating railways.....	Aug. 10, 1875	351	108	8	257
	Otis, Elisha G., deceased, by Benjamin T. Babbitt, administrator, New York, N. Y. Hoisting apparatus.....(Extension)	Jan. 14, 1875	.....	.....	7	180
	Same.....same.....(Extension)	Jan. 14, 1875	.....	.....	7	180
	Same.....same.....(Extension)	Jan. 14, 1875	.....	.....	7	180
159,526	Otis, John L., Leeds, Mass. Machine for dressing castings.....	Feb. 9, 1875	290	93	7	231
168,179	Otis, Newton S., assignor of one-half interest to William S. Gray, New York, N. Y. Temporary binder.....	Sept. 28, 1875	769	244	8	538
166,219	Otis, Norton P., Yonkers, N. Y. Hoisting-machine.....	Aug. 3, 1875	32	11	8	203
163,943	Otis, Samuel A., Boston, Mass. Track-scraper.....	June 1, 1875	89	30	7	943
164,586	Otis, Samuel L., Birmingham, Conn. Crochet-machine.....	June 15, 1875	707	230	7	1045
171,161	Ott, Jacob, and John Weller, New York, N. Y. Fastening for bungs in casks or barrels.....	Dec. 14, 1875	481	157	8	1022
165,498	Ott, John, Indianapolis, Ind. Barber's chair.....	July 13, 1875	365	108	8	66
158,973	Ott, Stephen, Newark, Del. Car-coupling.....	Jan. 19, 1875	598	199	7	121
	Otto & Sons, F. G. (See Otto, Ferdinand G., assignor.)					
169,031	Otto, Carl C. F., assignor of one-half interest to B. Davis Noxon, Syracuse, N. Y. Anti-friction compound.....	Oct. 19, 1875	684	.....	8	677
170,106	Otto, Ferdinand G., Jersey City, N. J., assignor to F. G. Otto & Sons, New York, N. Y. Truss.....	Nov. 16, 1875	775	245	8	851
160,946	Otto, Henry, Bloomington, Ill. Pipe-wrench.....	Mar. 16, 1875	649	211	7	455
	Outerson, Andrew. (See Outerson, John and Andrew.)					
158,514	Outerson, John and Andrew, Windsor Locks, Conn. Filter.....	Jan. 5, 1875	145	48	7	29
6,539	Outland, Josiah, and Robert P. Thomas, Barnesville, Ohio. Car-coupling.....(Reissue)	July 13, 1875	510	156	8	87
170,107	Outson, Jacob P., assignor of one-half interest to William Asby, Racine, Wis. End-gate for wagons.....	Nov. 16, 1875	776	246	8	851
8,666	Ovens, George C., Red Bank, N. J. Bottle.....(Design)	Sept. 28, 1875	.....	.....	8	520
	Over, Ewald, et al. (See King, Jacob, assignor.)					
	Overby, John O. (See Storle, Ole O., assignor.)					
6,505	Overend, John A. T., San Francisco, Cal. Type-casting machine.....(Reissue)	June 22, 1875	1021	{ 329 } 330	7	1094
6,506	Same.....same.....(Reissue)	June 22, 1875	1022	330	7	1094
165,859	Same.....Machine for cutting printers' leads.....	July 20, 1875	721	220	8	131
165,860	Same.....Heater and feed-pump for boilers.....	July 20, 1875	722	220	8	132

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No.	Name, residence, and invention.	Date.	Monthly volume		Official Gazette	
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6,304	Owen, Benjamin, Dayton, Ohio. Horse hay-rake..... (Reissue)	Feb. 23, 1875	968	319	7	338
6,617	Same..... same..... (Reissue)	Aug. 24, 1875	961	299	8	360
159,349	Same..... same.....	Feb. 2, 1875	99	34	7	198
170,389	Owen, Daniel E., assignor of one-half interest to Daniel E. Frasier and Alpheus K. Smith, Cambridge, Mass. Horse-detacher.....	Nov. 23, 1875	1054	331	8	897
166,717	Owen, George R., Cortland, N. Y. Car-coupling.....	Aug. 17, 1875	526	161	8	290
167,781	Owen, John D., and George M. Custer, Mattoon, Ill. Rein-holder.....	Sept. 14, 1875	372	119	8	466
162,096	Owen, John H. (See Horton & Hayes, assignors.)					
171,629	Owens, Madison B., and George Chamberlin, Olean, N. Y. Bed-bottom.....	Apr. 13, 1875	449	149	7	642
162,411	Owens, Michael A., Brooklyn, N. Y. Process for preparing molding for enameling.....	Dec. 28, 1875	972	315	8	1104
168,774	Owens, Thomas W., Granville, Ohio. Farm-fence.....	Apr. 20, 1875	768	249	7	688
166,803	Oxley, P. H., et al. (See Minor, John O., assignor.)					
168,774	Oyston, Charles, Little Falls, N. Y. Hose-nozzle.....	Aug. 17, 1875	602	186	8	301
164,057	Pacand, Eugene J., assignor to Florentine A. Jones, Schaffhausen, Switzerland. Watch.....	Oct. 11, 1875	437	142	8	634
170,294	Pack, William H., and Joseph S. Van Horn, Jersey City, N. J. Paper-clip.....	June 22, 1875	782	256	7	1064
	Same..... Paper-fastener.....	Nov. 23, 1875	968	303	8	885
166,804	Packard, Francis, 2d. (See Tucker, Horace N., assignor.)					
167,408	Packard, Henry F. (See Warren & Packard.)					
171,310	Packard, Nathaniel R., Brockton, Mass. Blank for box-toes of boots and shoes.....	Aug. 17, 1875	603	186	8	302
160,699	Paddock, James R., Chicago, Ill. Direct-acting engine.....	Sept. 7, 1875	26	8	8	410
	Paddon, William, San Francisco, Cal. Mash-attenuator.....	Dec. 21, 1875	646	212	8	1051
171,630	Pagan, Orestes, Philadelphia, Pa. Boiler-tube expander.....	Mar. 9, 1875	407	136	7	416
	Page, & Co., George. (See Cook, John F., assignor.)					
	Page, Arthur T., Garden Prairie, Ill. Windmill.....	Dec. 28, 1875	974	315	8	1104
	Page, Augustus. (See Haynes, Cornelius E., assignor.)					
	Page, Augustus, et al. (See Haynes, Cornelius E., assignor.)					
	Page, Charles. (See Lockwood, Edward M., assignor.)					
	Page, Charles R. (See Porter, Hawes & Page.)					
	Page, Clark D. (See Hand, Ekins, assignor.)					
158,599	Page, E. Emerson, Boston, Mass. Air cooling and purifying apparatus.....	Jan. 12, 1875	236	80	7	57
170,891	Page, Frank A. (See Barbour & Page.)					
170,295	Page, Justin E., Sycamore, Ill. Barbed-wire fence.....	Dec. 7, 1875	207	72	8	978
8,688	Page, Philip S. (See Tabor, Freeman A., assignor.)					
164,931	Page, Thomas S., Toledo, Ohio. Kitchen utensil.....	Nov. 23, 1875	969	303	8	885
	Page, William, New York, N. Y. Bust of Shakspeare..... (Design)	Oct. 5, 1875			8	561
	Page, William C. D., and John L. Fahy, assignors to John L. Fahy, East Cambridge, Mass. Instrument for extracting corks from bottles.....	June 29, 1875	1058	341	7	1107
164,475	Paige, George W. (See Paige, Samuel K., George W., and Jeremiah A.)					
163,237	Paige, Jeremiah A. (See Paige, Samuel K., George W., and Jeremiah A.)					
163,370	Paige, John C., Stoneham, Mass. Railway time-signal.....	June 15, 1875	613	199	7	1032
161,055	Paige, Samuel K., George W., and Jeremiah A., Henniker, N. H. Box-machine.....	May 11, 1875	480	156	7	817
164,869	Paige, William H., Springfield, Mass. Car-wheel.....	Nov. 2, 1875	49	15	8	741
	Paillard, Charles, St. Croix, Switzerland. Music-box.....	Mar. 23, 1875	751	247	7	478
168,280	Pain, Robert W., assignor to E. P. Needham & Son, New York, N. Y. Tremolo for reed-organs.....	June 22, 1875	980	317	7	1089
	Paine, Frederick T., Iuka, Miss. Soda-fountain with double faucet.....	Sept. 28, 1875	558	273	8	550
169,371	Painter, John R., et al. (See Wemyss, Alexander, assignor.)..... (Design.)					
169,700	Painter, P. A. (See Taylor, Harrison P., assignor.)					
160,701	Painter, Robert F., Greenfield, Mass. Carriage-top.....	Nov. 2, 1875	50	15	8	741
160,702	Painter, William, Baltimore, Md. Hose-coupling.....	Mar. 9, 1875	408	136	7	416
160,703	Same..... Apparatus for removal of night-soil.....	Mar. 9, 1875	409	137	7	416
160,704	Same..... Discharge-gates for night-soil tank.....	Mar. 9, 1875	411	137	7	416
162,945	Same..... Measuring-indicator for night-soil tanks.....	Mar. 9, 1875	412	137	7	416
163,238	Same..... Foot-pipe for suction-hose.....	Mar. 9, 1875	413	137	7	417
168,775	Same..... Apparatus for transferring night-soil from transit-tanks to cars, boats, &c.....	May 4, 1875	193	63	7	772
168,776	Same..... Transit-tank for night-soil.....	May 11, 1875	481	157	7	817
160,224	Same..... Valve.....	Oct. 11, 1875	438	142	8	634
	Same..... same.....	Oct. 11, 1875	439	143	8	635
161,981	Palm, Otto J. E., Cincinnati, Ohio. Ornamental transfer-sheet.....	Feb. 23, 1875	941	309	7	334
168,578	Palmer, Aaron, Rochester, N. Y. Harvester-rake.....	Apr. 13, 1875	353	118	7	629
	Same..... Harvester.....	Oct. 11, 1875	262	86	8	609
162,944	Palmer, Amos, et al. (See Brettle & Lindsey, assignors.)					
161,632	Palmer, Amos B., Willimantic, and Albert E. Elmer, New Britain, Conn. Automatic fly-fau.....	May 4, 1875	192	63	7	772
161,895	Palmer, Charles H. (See Dewey & Palmer.)					
163,239	Palmer, Charles H., New York, N. Y. Embroidering attachment for sewing-machines.....	Apr. 6, 1875	38	14	7	574
165,175	Same..... Sewing-machine.....	Apr. 13, 1875	279	94	7	630
	Same..... Ruffling attachment for sewing-machines.....	May 11, 1875	483	157	7	817
166,888	Palmer, Charles H., and Edmund H. Dewey, New York, assignors to Charles H. Dewey, Brooklyn, N. Y. Reciprocating cylinder-revolving engine.....	July 6, 1875	34	9	8	13
164,870	Palmer, Corydon B. (See Waring, Michael L., assignor.)					
	Palmer, Daniel, and Mahlon and Charles E. Briggs, Iola, Kans. Washing-machine.....	Aug. 17, 1875	683	211	8	313
160,462	Palmer, Delos, New York, N. Y. Clamp for dental rubber-dams.....	June 22, 1875	981	317	7	1089
	Palmer, F. E. (See Burlingame, Oliver F., assignor.)					
163,517	Palmer, George, Littlestown, Pa. Car-wheel.....	Mar. 2, 1875	184	64	7	375
159,441	Palmer, George L. (See Engel, Joseph, assignor.)					
161,896	Palmer, George N., Elmira, N. Y. Reservoir cooking-stove.....	May 18, 1875	763	242	7	870
163,399	Palmer, Herbert F. (See Palmer, William H., jr., assignor.)					
163,882	Palmer, Isaac E., Middletown, Conn. Mosquito-canopy.....	Feb. 2, 1875	181	61	7	210
163,240	Same..... Machine for tenting and straightening fabrics.....	Apr. 13, 1875	281	95	7	620
168,104	Palmer, Jesse, assignor to Charles A. De Hart, Newark, N. J. Die for forming hatchet-claws.....	May 18, 1875	651	208	7	855
	Palmer, Joseph, assignor to self and Charles P. Moore, Concord, N. H. Die for forming spurs on horseshoe-calks.....	June 1, 1875	39	13	7	936
	Palmer, Josiah F., Auburn, N. Y. Animal-poke.....	May 11, 1875	484	157	7	817
	Palmer, Le Roy C., Charlotte, Vt. Milk-cooler.....	Sept. 28, 1875	699	220	8	528
	Palmer, Mahlon. (See Palmer & Briggs.)					
159,442	Palmer, Milton J., assignor to self and Archibald O. Glass, Detroit, Mich. Soap-boiling apparatus.....	Nov. 2, 1875	136	44	8	753
158,806	Palmer, Silas D., assignor to John R. B. Ransom, Toledo, Ohio. Dental flask for rubber.....	Feb. 2, 1875	182	62	7	210
160,947	Palmer, Timothy G., Schultsville, N. Y. Horse-power.....	Jan. 19, 1875	440	147	7	101
166,295	Palmer, Timothy G., Schultsville, and Henry F. Clark, Poughkeepsie, N. Y. Rotary printing-press for dating letters and canceling stamps.....	Mar. 16, 1875	650	212	9	455
	Palmer, Wales L., and Israel W. Knox, San Francisco, Cal. Rotary pressure-blower.....	Aug. 3, 1875	101	32	8	213

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 764	Palmer, William H., Dover, N. H. Mechanism for molding the soles of boots and shoes	May 4, 1875	26	9	7	750
163, 801	Palmer, William H., jr., Middletown, Conn., assignor to Herbert F. Palmer, New York, N. Y. Mechanism for drying sized fabrics	May 25, 1875	1021	323	7	912
164, 026	Same..... Machine for tentering fabrics	June 1, 1875	157	56	7	952
164, 587	Same..... Machine for tentering cloth	June 15, 1875	708	230	7	1046
163, 241	Palmer, W. S. (See Van Horne, Robert P., assignor.)					
167, 558	Palmieri, Henry, New York, N. Y. Shield for pipes	May 11, 1875	485	158	7	818
171, 311	Same..... Toilet-mirror	Sept. 7, 1875	156	49	8	428
161, 437	Pancoast, Isaiah W., Libertyville, Iowa. Portable fence	Dec. 21, 1875	647	212	8	1051
167, 016	Paradis, Joseph, Brooklyn, assignor to Edward H. Faulkner, New York, N. Y. Loom for weaving hair-cloth	Mar. 30, 1875	1132	365	7	534
170, 763	Paraf, Alfred, San Francisco, Cal. Fluxing composition	Aug. 24, 1875	820	255	8	341
158, 515	Parcelle, Albert L., Oneonta, N. Y. Sad-iron	Dec. 7, 1875	102	32	8	964
6, 465	Parham, Samuel P., New York, N. Y. Gas-retort	Jan. 5, 1875	146	49	7	29
163, 883	Paris, Daniel E., et al. (See Brown, Albert, assignor.) (Reissue.)	June 1, 1875	206	73	7	958
164, 202	Paris, Daniel E., Troy, N. Y. Cooking-stove	June 1, 1875	40	13, 14	7	936
169, 032	Same..... Reservoir cooking-stove	June 8, 1875	341	{ 116 117 225 226 }	7	988
167, 926	Same..... Torsion-spring for vehicles	Oct. 19, 1875	685	{ 225 226 }	8	677
169, 572	Same..... Torsional spring for vehicles	Sept. 21, 1875	509	162	8	494
162, 097	Park, Alfred J., Virginia, Mo. Apparatus for gathering and elevating hay	Nov. 2, 1875	233	76	8	766
159, 208	Park, James A., Lansing, and William Woodhouse, Mason, Mich. Writing-desk for chairs	Apr. 13, 1875	450	150	7	642
169, 918	Park, William R., Philadelphia, Pa. Lamp-cap and shade-holder	Jan. 26, 1875	836	274	7	161
163, 400	Same..... Cane	Nov. 16, 1875	609	189	8	829
168, 125	Parker, Abijah S., assignor to Parker Manufacturing Company, Binghamton, N. Y. Lock-hinge for blinds and shutters	May 18, 1875	651	208	7	855
164, 324	Parker, Albert B. (See Sayre, Charles H., assignor.)					
166, 135	Parker and Whipple Company. (See Coleman, Cornelius, assignor.)					
166, 220	Parker, Benjamin, Ellsworth, Me. Machine for jointing staves	Sept. 28, 1875	720	227	8	531
159, 606	Parker, Charles. (See King, Charles A., assignor.)					
6, 623	Same..... (See Kingsley, Charles L., assignor.)					
6, 426	Same..... (See Parker, Dexter W., assignor.) (Reissue.)					
159, 115	Same..... (See Smith, Henry, assignor.)					
159, 443	Parker, Charles, Newark, N. J. Photograph-wrapper	June 8, 1875	459	152	7	1003
161, 818	Parker, Charles F., assignor of one-half interest to Artemas M. Shelley, Lockport, N. Y. Disinfecting sick-room slop-jar	July 27, 1875	995	307	8	182
161, 436	Parker, Charles N., jr., et al. (See Williams, Carmi H., assignor.)					
169, 471	Parker, Chauncey C., Brooklyn, N. Y. Eyeglass	Aug. 3, 1875	33	11	8	204
159, 959	Parker, Christopher C., and John Kivett, Sullivan, Ind. Axle-lubricator	Feb. 9, 1875	349	116	7	241
6, 811	Parker, Dexter W., assignor to Charles Parker, Meriden, Conn. Claw-hammer. (Reissue.)	Aug. 31, 1875	1173	369	8	398
171, 039	Parker, Edward, Plymouth, assignor, by mesne assignments, to American Ring Company, Waterbury, Conn. Manufacture of eyelets	May 11, 1875	544	173	7	826
170, 186	Parker, Edward, Plymouth, assignor to Elmore Penfield, Middletown, Conn. Vise	Jan. 26, 1875	753	247	7	149
164, 203	Parker, Edward L., et al. (See Huggins, John, assignor.)					
167, 928	Parker, Emery. (See Lyon & Parker.)					
167, 782	Parker, George W., Bainbridge, N. Y. Camera attachment	Feb. 2, 1875	183	62	7	210
8, 355	Parker, George W., Gardner, Mass. Machine for tenoning chair-rounds	Apr. 6, 1875	198	67, 68	7	597
160, 117	Parker, Henry, Otsego, assignor of three-fourths interest to Jacob Jacobson, Saint Joseph, Mich. Hand-truck	Mar. 30, 1875	1131	365	7	534
168, 666	Parker, Hiram J., Rochester, assignor of one-half interest to Sylvester N. Gardner, Troy, N. Y. Inclosure or play-house for children	Nov. 2, 1875	135	44	8	753
167, 114	Parker, Hubbard G., Carson City, Nev. Flume for conveying timber	Feb. 16, 1875	690	229	7	292
164, 204	Parker, J. B. (See Hepner, Solomon, assignor.)					
164, 691	Parker, John, Dubuque, Iowa. Fly-trap	Dec. 21, 1875	785	260	8	1070
168, 524	Parker, John W. and Thomas, Chicago, Ill. Saw-gummer	Dec. 14, 1875	360	120	8	1006
161, 267	Parker, Joseph N., Augusta, Me. Hog-head and barrel horse	Nov. 23, 1875	873	273	8	871
167, 559	Parker, Josiah W. (See Holland & Parker.)					
167, 927	Parker, La Fayette, Davenport, Iowa. Roofing-tile	June 8, 1875	243	117	7	988
169, 189	Parker, Lewis. (See Barber, William, assignor.)					
164, 871	Parker, Lewis C., Robinson, Kans. Car-starter	Sept. 21, 1875	510	163	8	495
6, 669	Parker, Louisa A., Norwalk, Ohio. Sewing-machine caster	Sept. 14, 1875	372	119	8	466
163, 518	Parker Manufacturing Company. (See Parker, Abijah S., assignor.)					
167, 588	Parker, Reginald R., Indianapolis, Ind. Neck-tie	May 25, 1875	.....	.....	7	879
163, 687	Same..... Neck-tie shield	Feb. 23, 1875	850	280	7	321
163, 518	Same..... Neck-tie	Oct. 11, 1875	344	112	8	621
167, 114	Parker, Retire H., et al. (See Moulton, Damon & Rice.)					
164, 204	Parker, Richard M. C., Memphis, Tenn. Spring-binge	Aug. 24, 1875	912	284	8	353
164, 691	Parker, Robert, and John B. Coleman, Corry, Pa. Clamp for holding files in tempering-baths	June 8, 1875	344	117	7	988
168, 524	Parker, Samuel G., et al. (See Alger, George A., assignor.)					
161, 267	Parker, Sidney, Sheffield, Ind. Window-screen	June 22, 1875	813	266	7	1068
167, 559	Parker, Thomas. (See Parker, John W. and Thomas.)					
167, 927	Parker, Thomas, Menomonee, Wis. Sluice-gate	Oct. 5, 1875	186	60, 61	8	590
169, 189	Parker, Wilbur F., Meriden, Conn. Breech-loading fire-arm	Mar. 23, 1875	958	312	7	504
164, 871	Parker, William A., Brooklyn, N. Y. Burglar-alarm	Sept. 7, 1875	158	49	8	428
6, 669	Parker, William A., Marshfield, Mo. Fifth-wheel	Sept. 21, 1875	509	162	8	495
163, 518	Parker, William C., Franklin, Pa. Apparatus for reducing crude oil	Oct. 26, 1875	847	276	8	708
167, 588	Parker, William D., assignor of one-half interest to Gustavus W. Ingalls, Worcester, Mass. Tremolo for organs	June 22, 1875	982	317	7	1089
171, 416	Parker, William K. (See Thomas & Parker.)					
171, 162	Parker, William M., Medford, Mass. Loom-shuttle guard	Dec. 21, 1875	742	244	8	1064
6, 669	Parker, William P. (See Stickle, Parker & Moore.)					
163, 518	Parkerson, Robert M. (See Fuller & Parkerson.)					
163, 518	Parkes, Alexander, Erdington, England. Gas-furnace	Dec. 14, 1875	482	{ 158 159 160 }	8	1022
163, 518	Parkhurst, Alinus N., Logansport, Ind. Pump	Sept. 28, 1875	902	287	8	556
163, 518	Same..... same	May 18, 1875	765	242	7	870
164, 588	Parkhurst, Edwin D. (See Crane, Francis E. S., assignor.)					
163, 687	Parkhurst, Emily R. (See Parkhurst, Stephen R., assignor.)					
163, 687	Parkhurst, Horace, Oakland, Cal. Horse-power	June 15, 1875	709	231	7	1046
163, 687	Parkhurst, Joseph P. (See Glassbrook, Myron, assignor.)					
163, 687	Parkhurst, Stephen R., assignor to Emily R. Parkhurst, Mont Clair, N. J. Machine for mixing wool	May 25, 1875	922	293	7	898

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8,448	Parkin, William, assignor to Reed & Barton, Taunton, Mass. Coffin-plate. (Case A. Design).....	June 29, 1875			7	1098
8,453	Same.....same.....(Design).....	July 6, 1875			8	4
166,628	Parks, Aaron. (See Holabird & Parks.)					
	Parks, Dana, Boston, Mass., assignor of one-half interest to Frederick P. Sawyer, Georgetown, D. C. Ship's chair.....	Aug. 10, 1875	422	131	8	267
168,180	Parks, John R. (See Parks, Robert B., assignor.)					
159,209	Parks, Robert B., assignor to self and John R. Parks, Princeton, Ill. Sleigh.....	Sept. 28, 1875	772	244	8	538
	Parks, William F., and Louis F. Lannay, Cincinnati, Ohio. Machine for combing dry bristles.....	Jan. 26, 1875	836	274	7	161
	Parlin & Orendorff. (See Parlin, William H., assignor.)					
165,753	Parlin, William H., assignor to Parlin & Orendorff, Canton, Ill. Harrow.....	July 20, 1875	609	188	8	117
6,257	Parmelee, Henry S., New Haven, Conn. Fire-extinguisher.....(Reissue).....	Jan. 26, 1875	882	286	7	167
	Parr, John N. (See Townsend & Parr.)					
469,573	Parr, Joseph, New York, N. Y., assignor to Lydia A. McCollum, executrix of John McCollum, deceased. Guide-roller for endless aprons.....	Nov. 2, 1875	233	76	8	766
169,574	Same.....Ratchet-movement.....	Nov. 2, 1875	234	77	8	766
169,834	Parr, Joseph, New York, N. Y., assignor to Lydia Ann McCollum, executrix of John McCollum, deceased. Cracker-machine.....	Nov. 9, 1875	517	162	8	809
165,499	Parry, George T., Philadelphia, Pa. Combined street-lamp and gas-machine.....	July 13, 1875	366	108	8	66
163,944	Parry, Thomas W., Danielsville, Pa. Slate-cutting machine.....	June 1, 1875	89	30	7	943
170,296	Parshall, Charles H., Detroit, Mich. Lubricator.....	Nov. 23, 1875	970	304	8	885
170,297	Same.....same.....	Nov. 23, 1875	971	304	8	885
159,207	Parson, Warren D., Denver, Colo. Windmill.....	Jan. 26, 1875	834	274	7	161
158,389	Parsons, Augustus, Chicago, Ill. Gas-regulator.....	Jan. 5, 1875	32	11	7	13
	Parsons, Foster E. (See Bennett & Parsons.)					
168,579	Parsons, Francis W., Dedham, Mass. Sleeping-car.....	Oct. 11, 1875	262	86	8	609
	Parsons, George E. (See Twitchell & Parsons.)					
168,409	Parsons, George W., Salisbury, Md. Diking-attachment for dredgers.....	Oct. 5, 1875	82	28	8	576
6,466	Parsons, Henry, Waterloo, N. Y., assignor to George Crompton, Worcester, Mass. Loom heddle-frame.....(Reissue).....	June 1, 1875	207	74	7	959
	Parsons, L. D. (See Cone, Alfred M., assignor.)					
164,932	Parsons, Thomas D., assignor of one-half interest to George E. Reed, Bristol, Conn. Lamp-burner.....	June 29, 1875	1059	341	7	1107
166,221	Parsons, Thomas D., assignor to self and George T. Steele, Bristol, Conn. Auger.....	Aug. 3, 1875	34	11	8	204
	Partrick, Bunnell & Co. (See Bunnell, Jesse H., assignor.)					
	Same.....(See Carter & Hewitt, assignors.)					
	Partridge, Horace. (See Johnson, Charles C., assignor).....(Reissue).....					
171,312	Partridge, John W., Boston, Mass. Paper braid.....	Dec. 21, 1875	647	212	8	1051
143,102	Partridge, Uberto N., Boston, N. Y. Quilting-frame clamp.....	May 11, 1875	359	117	7	802
6,208	Parts, August F. W., Oakland, Cal. Apparatus for compacting granular sugar into blocks.....(Reissue).....	Jan. 5, 1875	191	66	7	36
6,209	Same.....Compacting sugar into blocks.....(Reissue).....	Jan. 5, 1875	192		7	36
159,769	Same.....Drier for refined sugar.....	Feb. 16, 1875	514	172	7	269
171,417	Pashley, George F., Brooklyn, N. Y. Signal-lantern.....	Dec. 21, 1875	743	244	8	1064
	Passaic Zinc Company. (See Moore, Gideon E., assignor.)					
	Passel, George W. (See Doane & Passel.)					
168,281	Passeno, Joseph, Georgetown, D. C. Spike and nail extractor.....	Sept. 28, 1875	859	274	8	551
6,305	Passmore, Everett G., Philadelphia, Pa. Lawn-mower.....(Reissue).....	Feb. 23, 1875	969	319	7	338
171,040	Patch, Frank A., New York, N. Y. Folding chair.....	Dec. 14, 1875	361	120	8	1006
	Patchen, Abel. (See Eames & Patchen.)					
	Patent Grape Sugar Company. (See Pearse, Edwin E., assignor.)					
159,707	Paterson, James, Leytonstone, England. Machine for capsuling bottles.....	Feb. 9, 1875	439	147	7	253
6,274	Patric, Charles E., Springfield, Ohio. Grain-drill.....(Reissue).....	Feb. 2, 1875	246	80	7	218
159,210	Same.....Seeding-machine.....	Jan. 26, 1875	837	275	7	161
168,918	Patric, Charles E., and James S. Bogle, Springfield, Ohio. Grain-drill.....	Oct. 19, 1875	582	192	8	663
170,448	Patrick, Robert, Branchton, Canada. Rotary pump and engine.....	Nov. 30, 1875	1123	353	8	915
159,350	Patten, Edwin B., Bangor, Me. Cook-stove attachment.....	Feb. 2, 1875	100	35	7	198
159,351	Same.....same.....	Feb. 2, 1875	101	35	7	198
158,864	Patten, John R., Amesbury, Mass. Jump-seat for carriages.....	Jan. 19, 1875	492	165	7	108
163,802	Patterson, Chester R., Pittston, Pa. Planing-machine.....	May 25, 1875	1031	{ 323 } { 324 }	{ 7 } { 7 }	{ 912 } { 912 }
	Patterson, E. G., et al. (See Allen, Hosea, assignor.)					
164,759	Patterson, Emmet J., Chicago, Ill. Railway-crossing.....	June 22, 1875	873	285	7	1076
169,286	Patterson, Henry M., Monterey, Va. Ice-nail for horseshoes.....	Oct. 26, 1875	938	304	8	720
161,634	Patterson, Jacob M., Woodbury, N. J. Method of producing flanged lids and collars for sheet-metal cans.....	Apr. 6, 1875	40	15	7	575
170,892	Patterson, James, Washington, D. C. Boat-detaching apparatus.....	Dec. 7, 1875	208	72	8	978
	Patterson, John S. (See Griffith & Patterson.)					
168,667	Patterson, Lemuel, assignor of one-half interest to John K. Hunter, Parker City, Pa. Brick-machine.....	Oct. 11, 1875	345	112	8	621
169,287	Patterson, Newton A., Johnson, Tenn. Propeller-wheel.....	Oct. 26, 1875	938	{ 304 } { 305 }	{ 8 } { 8 }	{ 720 } { 720 }
170,893	Same.....Screw-propeller.....	Dec. 7, 1875	209	72, 73	8	979
163,688	Patterson, Robert I., Muncie, Ind. Hand-rubber.....	May 25, 1875	923	293	7	899
160,706	Patterson, Thomas, assignor to self and Enos C. Matson, Princeton, Ill. Washing-machine.....	Mar. 9, 1875	415	138	7	417
166,136	Patterson, William, Constantine, Mich. Well-tubing.....	July 27, 1875	996	307	8	182
160,705	Patterson, William A., Juniata County, Pa. Implement for binding grain.....	Mar. 9, 1875	414	138	7	417
158,807	Patterson, William F., Boston, Mass. Screw-driver.....	Jan. 19, 1875	441	147	7	101
160,543	Same.....same.....	Mar. 9, 1875	272	92	7	396
161,056	Same.....same.....	Mar. 23, 1875	752	248	7	478
163,401	Same.....same.....	May 18, 1875	662	208	7	856
165,685	Same.....same.....	July 20, 1875	551	168	8	108
165,609	Pattison, James, Darnley Mill, Hurlert, North Britain. Dumping wagon or sleigh.....	July 13, 1875	465	142	8	81
161,633	Patton, Charles W., Louisville, Ky. Churn.....	Apr. 6, 1875	39	15	7	574
162,851	Patton, Joseph D., Trevorton, Pa. Gas-purifier.....	May 4, 1875	105	34	7	761
	Patton, Richard. (See Meharg, James M., assignor.)					
165,500	Patton, William, Vevay, Ind. Book-support.....	July 13, 1875	368	109	8	66
159,211	Patton, William P., and Charles D. Walters, assignors to Eby Byers & Son, Harrisburgh, Pa. Dumping-wagon.....	Jan. 26, 1875	840	275	7	162
161,543	Patton, William P., assignor to Eby Byers & Son, Harrisburgh, Pa. Trough for coal-carts.....	Mar. 30, 1875	1236	398	7	548
162,852	Patton, William P., assignor to self and Sullivan S. Child, Harrisburgh, Pa. Injector.....	May 4, 1875	106	34	7	761
164,027	Same.....same.....	June 1, 1875	159	56	7	952
166,549	Pattysen, William D. C., Sherbrooke, Canada. Type-setting machine.....	Aug. 10, 1875	352	{ 108 } { 109 }	{ 8 } { 8 }	{ 257 } { 257 }

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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169, 657	Paul Brothers & Co. (See Paul, George D., assignor.)	Nov. 9, 1875	335	106	8	786
160, 463	Paul, Charles C., Philadelphia, Pa. Construction of berry-barrels.....	Mar. 2, 1875	185	64	7	375
160, 346	Paul, George, and Josiah Sibley, Kenton, Ohio. Freight-car.....	Mar. 2, 1875	79	28	7	360
	Paul, George D., Brooklyn, assignor to Paul Brothers & Co., New York, N. Y. Top for salt and pepper box.....					
	Paulding, Gouverneur. (See Lawson, Peter B., assignor.)					
	Pawling, William M. (See Greene & Pawling)..... (Reissue.)					
	Paxson, Deborah I., et al. (See Harrison, Samuel L., assignor.)					
170, 964	Paxson, Joseph S., et al. (See Harrison, Samuel L., assignor.)	Dec. 14, 1875	298	99	8	997
	Payn, William S., Neillsville, Wis. Siding gage and bracket.....					
6, 520	Payne, Benjamin N., et al. (See Hamilton, Ira S., assignor.)					
	Payne, Brigham, Hartford, Conn., assignor to J. R. Schuyler, M. Hartley, and M. Graham. Machine for necking cartridge-cases..... (Reissue.)	June 29, 1875	1250	402	7	1134
6, 521	Same..... same..... (Reissue.)	June 29, 1875	1252	402	7	1134
163, 402	Payne, Coleman D., Moselle, Mo. Gas-burner.....	May 18, 1875	653	208	7	856
	Payne, David W., et al. (See Hamilton, Ira S., assignor.)					
158, 974	Payne, Henry A., Adams, N. Y. Hub for vehicle-wheels.....	Jan. 19, 1875	599	199	7	121
171, 313	Payne, Ira T., Essex, Conn. Steering-propeller.....	Dec. 21, 1875	648	212	8	1051
169, 835	Payne, Morgan, Cardington, Ohio, assignor to self and Thomas S. Davis, Collinsville, Ill. Rotary churn.....	Nov. 9, 1875	520	162	8	809
160, 464	Peabody, Joseph H., Pittsford, Vt. Mitten.....	Mar. 2, 1875	185	64	7	375
161, 982	Peabody, William B. O., Boston, Mass. Drawing-board.....	Apr. 13, 1875	354	119	7	629
	Peace, Harvey W. (See Edgar, John L., assignor.)					
170, 103	Peacock, A. H. (See Forbis, Harbert K., assignor.)					
	Peacock, George H., Webster, assignor to George Plumb and Susan A. Newman, Fairport, N. Y. Combination till-lock.....	Nov. 16, 1875	776	246	8	851
8, 223	Peacock, Hyla H., Philadelphia, Pa. Wall-bracket..... (Design.)	Mar. 23, 1875			7	466
167, 115	Peak, Thomas T., assignor of one-half interest to F. B. Woodruff, El Dorado, Iowa. Locomotive-tire heater.....	Aug. 24, 1875	913	285	8	353
164, 028	Peake, James B., Washington, D. C., assignor to self and Walton Brothers, New York, N. Y. Device or clamp for stopping leaks in water and other pipes.....	June 1, 1875	160	56	7	953
168, 282	Pearce, Arthur C., Milan, Tenn. Cotton-cleaner.....	Sept. 28, 1875	860	274	8	551
167, 560	Pearce, Henry, Cincinnati, Ohio. Automatic brake for elevators.....	Sept. 7, 1875	158	50	8	428
160, 615	Pearce, Henry, assignor to Lane & Bodley, Cincinnati, Ohio. Elevator.....	Mar. 9, 1875	333	112	7	405
158, 808	Pearce, James S., Northampton, Mass. Coal-sifter.....	Jan. 19, 1875	441	147	7	101
6, 536	Peard, John, Brooklyn, N. Y. School settee and desk..... (Reissue.)	July 8, 1875	269	79	8	44
8, 390	Pears, Thomas C., Pittsburgh, Pa. Beer-mug, ale-glass, &c..... (Design.)	June 15, 1875			7	1013
	Pearsall, Amos. (See Hawley & Pearsall.)					
159, 837	Pearse, Edwin E., New Wandsworth, assignor to Patent Grape Sugar Company, London, England. Manufacture of grape-sugar.....	Feb. 16, 1875	577	192	7	276
164, 029	Pearse, John B., Philadelphia, Pa. Apparatus for manufacturing iron and steel.....	June 1, 1875	161	57, 58	7	953
6, 204	Pearson, Samuel, Cincinnati, Ohio, assignor to Emanuel G. Gory. Bed-bottom. (Reissue.)	Jan. 5, 1875	186	64	7	35
158, 516	Pearson, Thomas T., Hopewell Corners, Canada. Steam-generator for cooking.....	Jan. 5, 1875	146	49	7	29
164, 205	Pearson, Thomas T., assignor of one-half interest to Charles A. McLane, Hopewell Corner, Canada. Vehicle-spring shackle.....	June 8, 1875	344	117	7	988
166, 805	Pearson, William, Philadelphia, Pa. Machine for sewing hosiery-seams.....	Aug. 17, 1875	604	187	8	302
170, 187	Pearson, William H., Lowell, Mass. Cow-milker.....	Nov. 23, 1875	874	273	8	872
166, 137	Pearsons, Harrison C., Ferrysburgh, Mich. Apparatus for finding true meridian.....	July 27, 1875	997	308	8	182
169, 288	Pease, Buel D., and Robert Campbell, Cohoes, N. Y. Hydrant.....	Oct. 26, 1875	939	305	8	720
	Pease, Charles E., et al. (See Krutzsch, William, assignor.)					
	Same..... (See Nugent, Richard C., assignor.)					
167, 561	Pease, Cornelius, and George W. Whitacre, Huntington, Ind. Sawing-machine.....	Sept. 7, 1875	160	50	8	429
169, 289	Pease, Dan, Floyd, N. Y. Smut-machine.....	Oct. 26, 1875	940	305, 306	8	720
158, 435	Pease, F. Wright, Metuchen, N. J. Toy bubble-pipe.....	Jan. 5, 1875	70	25	7	19
167, 017	Pease, Julius A., Boston, Mass. Lamp-burner.....	Aug. 24, 1875	821	255	8	341
6, 728	Pease, Samuel W. (See Benjamin, Edwin, assignor.)					
160, 544	Pease, Webster H., Edgerton, Wis. Tobacco-cutter..... (Reissue.)	Nov. 2, 1875	284	91, 92	8	772
	Peasley, James H., assignor of one-half interest to Charles T. Woodbury, Lawrence, Mass. Loom-shuttle.....	Mar. 9, 1875	273	93	7	396
	Peaster, James B. (See Maxwell & Peaster.)					
162, 412	Peberdy, Samuel, Philadelphia, Pa. Knitting-machine needle.....	Apr. 20, 1875	768	249	7	688
	Peck, Albert S. (See Peck, George E. and Albert S.)					
160, 948	Peck, Charles O., assignor to Nathan G. Brown, Pittsfield, Mass. Corpse-cooler.....	Mar. 16, 1875	651	212	7	455
	Peck, Duane. (See Porter & Peck.)					
158, 600	Peck, Ezra A., Sycamore, Ill. Machine for bending metals.....	Jan. 12, 1875	237	80	7	57
162, 853	Peck, Franklin, assignor to Silas E. Jeralds and Edwin R. Lawton, West Cheshire, Conn. Bobbin-winder for sewing-machines.....	May 4, 1875	107	34	7	761
171, 484	Peck, George E. and Albert S., Geneva, Ill. Hay-loader.....	Dec. 28, 1875	821	269	8	1083
	Peck, George S., et al. (See Hartwell, Charles S., assignor.)					
165, 610	Peck, J. Franklin, Springfield, Mass. Life-preserver.....	July 13, 1875	466	142	8	81
158, 517	Peck, Winfield S., North Norwich, N. Y. Car-coupling.....	Jan. 5, 1875	147	49	7	29
161, 702	Peckham, James M., Fall River, Mass. Loom-shuttle.....	Apr. 6, 1875	95	33	7	583
171, 041	Peckham, John A., assignor of one-half interest to Charles A. Stokes, New Haven, Conn. Cordage-machine.....	Dec. 14, 1875	361	120	8	1036
171, 418	Peckham, William C., Troy, Ohio. Grave-vault.....	Dec. 21, 1875	743	244	8	1061
165, 251	Peckham, William H., Big Springs, Kans. Eyeglass.....	July 6, 1875	100	30	8	22
	Peckinpugh, Abraham N. (See Dilger & Dunn, assignors.)					
	Pedigo, Henry C. (See Nelson, George, assignor.)					
171, 163	Peeler, Abner, assignor to I. F. Oleson and H. A. Dering, Fort Dodge, Iowa. Sewing-machine shuttle.....	Dec. 14, 1875	484	160	8	1022
168, 283	Peeler, John P., Booneville, Miss. Bee-hive.....	Sept. 28, 1875	861	275	8	551
	Peer, Perry A. (See Brown & Peer.)					
169, 473	Peet, John T., Cincinnati, Ohio. Machine for operating molders' match-plates.....	Nov. 2, 1875	136	45	8	754
	Peet-Molding Machine Company. (See Peet, Poland & Willis, assignors.)					
163, 604	Peet, Samuel J., Melville C. and John C. Poland, jr., Boston, and Joseph W. Willis, Canton, assignors, by mense assignments, to Peet Molding Machine Company, Boston, Mass. Molding-machine.....	May 25, 1875	856	270	7	889
	Pein, P. Hermann. (See Fey & Pein.)					
170, 298	Peirce, George W., Arlington Heights, Mass. Curtain-fixture.....	Nov. 23, 1875	972	304	8	885
163, 605	Peirce, Isaac N., Philadelphia, Pa. Folding school-desk.....	May 25, 1875	858	270	7	890
166, 718	Peirce, Joseph M., and Frank M. Kinsman, Fitchburgh, Mass. Cylinder saw.....	Aug. 17, 1875	527	161	8	290
164, 030	Peirce, Robert O., and William H. Foye, assignors to William H. Foye, Portland, Me. Temporary binder.....	June 1, 1875	164	58	7	953

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 194	Pelton, George M., assignor of one-fourth interest to F. B. Rice, Warren, Pa. Head-block for saw-mills.	Aug. 31, 1875	1008	313	8	374
	Pemberton, Elihu W. (See Hollingsworth, Joseph, assignor.)					
164, 760	Pence, George, Gilman, Iowa. Invalid-bedstead.	June 22, 1875	874	285	7	1076
165, 611	Pendleton, Marcellus A., Geneva Lake, Wis. Printing-press.	July 13, 1875	466	143	8	81
	Penfield, Elmore. (See Parker, Edward, assignor.)					
6, 726	Penn, Worden P., assignor of one-half interest to Henry Rentschler, Belleville, Ill. Seed-ing-machine.	Nov. 2, 1875	281	91	8	772
168, 777	Pennepacker, Joseph, Philadelphia, Pa. Burglar-alarm.	Oct. 11, 1875	440	143	8	635
168, 410	Pennie, John, jr., Albany, N. Y. Crozing staves.	Oct. 5, 1875	83	28	8	576
164, 476	Penniston, William H., Fox, Mo. Hay-press.	June 15, 1875	614	199	7	1032
161, 268	Pennock, Joseph L., Coatesville, Pa. Chill for puddling-furnaces.	Mar. 23, 1875	959	312	7	504
160, 707	Pennypacker, Herbert E., Phoenixville, Pa. Seed-planter.	Mar. 9, 1875	416	138	7	417
6, 471	Pennypacker, John, Ridley Park, Pa. Horse-rake.	June 1, 1875	215	75, 76	7	959
164, 761	Pennypacker, William G., Wilmington, Del. Centrifugal machine for making paper barrels.	June 22, 1875	875	285	7	1077
165, 501	Penoyer, Hiram, Anna, Ill. Bee-hive.	July 13, 1875	368	109	8	66
162, 413	Penton, Thomas, Sarnia, Canada. Cooking-stove and steam-heater.	Apr. 20, 1875	769	249	7	689
161, 150	Pentz, Levi, assignor to self and Henry W. Werts, Canton, Ohio. King-bolt.	Mar. 23, 1875	844	275	7	489
163, 106	Peper, Christian, Saint Louis, Mo. Hydraulic press.	May 25, 1875	859	270	7	890
163, 607	Same. same.	May 25, 1875	859	271	7	890
	Percy, James H. (See Scheermesser, Christian H., assignor.)					
170, 641	Perego, Alfred, New York, N. Y. Sleeve-adjuster.	Nov. 30, 1875	1306	412	8	939
	Periam, C. D., et al. (See Long, Charles B., assignor.)					
171, 419	Perin, Alexandre. (See Guicheteau & Perin.)					
	Perkins, Charles B., assignor to self and William Higgins, Kenduskeag, Me. Horse-rake.	Dec. 21, 1875	744	244	8	1064
170, 449	Perkins, Charles H., Providence, R. I. Rolling-mill.	Nov. 30, 1875	1124	354	8	915
163, 242	Perkins, Charles H., Bloomington, Ill., assignor to George Westinghouse, jr., Pittsburgh, Pa. Valve for air-brakes.	May 11, 1875	486	158	7	818
162, 252	Perkins, Francis B., assignor to Whittier Machine Company, Boston, Mass. Safety-catch for elevators.	Apr. 20, 1875	614	200	7	670
170, 585	Perkins, Francis B., and Walter S. Dodds, Elgin, Ill. Picture-holder.	Nov. 30, 1875	1252	394	8	932
	Perkins, Fred. B. (See Alderman, Frank R., assignor.)					
171, 042	Perkins, George C., deceased, Hartford, Conn., by George Roberts, administrator. Bed-bottom frame.	Dec. 14, 1875	362	120	8	1006
165, 362	Perkins, George H., Philadelphia, Pa., assignor to self and Joseph Le Comte, New York, N. Y., and Atlantic Refining Company, Philadelphia, Pa. Soldering apparatus.	July 6, 1875	199	60	8	26
167, 356	Same. Apparatus for facilitating the filling, soldering, and handling of cans.	Aug. 31, 1875	1146	360	8	393
169, 372	Same. Liquid-fuel burner.	Nov. 2, 1875	51	15	8	741
171, 164	Same. Oil-can nozzle.	Dec. 14, 1875	486	160	8	1022
158, 731	Perkins, George T., Saint Elmo, Ill. Car-coupling.	Jan. 12, 1875	351	119	7	73
	Perkins, John C. (See Bannister, Perkins & Stoddard.)					
6, 795	Perkins, John M., et al. (See Fuller, George W., assignor.)					
170, 894	Perkins, John M., assignor to R. R. Perkins, Asbury, N. J. Carpet-lining.	Dec. 14, 1875	536	73	8	1028
160, 225	Perkins, John M., Washington, D. C. Sand and gravel heater.	Dec. 7, 1875	210	73	8	979
171, 314	Perkins, Joshua, Danielsonville, Conn. Meat-chopper.	Feb. 23, 1875	942	309	7	334
171, 165	Same. Clasp.	Dec. 21, 1875	649	213	8	1051
	Perkins, Orson N., assignor to Edward Miller & Co., West Meriden, Conn. Lamp-filling-can top.	Dec. 14, 1875	486	160	8	1022
	Perkins, R. R. (See Perkins, John M., assignor.)					
159, 608	Perkins, Russell B., assignor to E. Miller & Co., Meriden, Conn. Globe-holder for lamps.	Feb. 9, 1875	349	116	7	241
164, 589	Perkins, Russel B., assignor to Edward Miller & Co., West Meriden, Conn. Oiler.	June 15, 1875	710	231	7	1046
159, 352	Perkins, William A., Salem, Mass. Caster for furniture.	Feb. 2, 1875	102	35	7	198
6, 354	Perley, Charles, New York, N. Y., assignor to Calvin Hersome, Boston, Mass. Shoe.	Mar. 30, 1875	1281	412	7	555
169, 033	(Reissue.)	Oct. 19, 1875	686	226	8	677
167, 018	Pernot, Charles, St. Chamond, France. Inclined revolving puddling-furnace.	Aug. 24, 1875	822	256	8	341
162, 854	Perrenot, George F., Rockport, Tex. Ironing-machine.	May 4, 1875	109	35	7	761
161, 269	Perrin, Adelbert W., New York, assignor of one-half interest to James H. Ferguson, Brooklyn, N. Y. Machine for pebbling, graining, and embossing leather.	Mar. 23, 1875	959	312	7	504
166, 404	Perrine, H. Lansing, Freehold, N. J. Air-brake.	Aug. 3, 1875	205	61, 62	8	227
166, 405	Same. same.	Aug. 3, 1875	207	62	8	228
166, 406	Same. same.	Aug. 3, 1875	208	62, 63	8	228
169, 575	Same. Double-acting air-brake.	Nov. 2, 1875	235	77	8	766
160, 791	Perrins, John, San Francisco, Cal. Combined parasol and whip.	Mar. 16, 1875	250	167	7	437
	Perry & Co. (See Hunt, Zebulon, assignor.)					
166, 222	Perry, Benjamin P., and Orrin S. Mote, Richmond, Ind. Head-block for saw-mills.	Aug. 3, 1875	35	11	8	204
170, 188	Perry, Charles, Portland, Me. Fishing-rod case.	Nov. 23, 1875	874	273	8	872
168, 411	Perry, Edward L., Ridgewood, N. J. Pump for raising heavy liquids.	Oct. 5, 1875	83	28, 29	8	577
169, 190	Perry, Edwin H., Lancaster, Pa. Click for ratchet-wheels.	Oct. 26, 1875	848	277	8	708
170, 189	Perry, Eli, and Andrew J. Manley, Fox Lake, Wis. Hay-loader.	Nov. 23, 1875	875	274	8	872
8, 310	Perry, Elizabeth W., Cincinnati, Ohio. Fan.	May 4, 1875			7	742
161, 897	Perry, Ezra A., jr., and George M. Dwight, Oregon, Ill. Head-block.	Apr. 13, 1875	283	95	7	621
159, 212	Perry, Henry C., Wilkesbarre, Pa. Sash-holder.	Jan. 26, 1875	842	275	7	162
170, 586	Same. same.	Nov. 30, 1875	1253	394	8	932
169, 836	Perry, Henry K., assignor of one-half interest to Martin L. Tupper, Braintree, Mass. Shingling-hatchet.	Nov. 9, 1875	520	162	8	809
163, 243	Perry, Isaac A., Oxford, Pa. Stove implement.	May 11, 1875	487	158	7	818
166, 296	Perry, James, Brooklyn, N. Y. Mode of securing flexible roofing to roofs.	Aug. 3, 1875	102	32	8	214
167, 469	Perry, John G., Kingston, R. I. Nut-lock.	Sept. 7, 1875	78	24	8	417
158, 601	Perry, John L., assignor of one-half interest to J. E. Ash, Turner, and W. H. Keith, North Auburn, Me. Shoe-upper.	Jan. 12, 1875	238	80	7	57
	Perry, John S. (See Foster, Samuel E., assignor.)					
	Same. (See Moore, George R., assignor.)					
168, 047	Perry, John S., Andrew Dickey, and Robert Z. Liddle, assignors to John S. Perry, trustee, and executor, Nathan B. Perry, and Andrew Dickey, Albany, N. Y. Magazine cooking-stove.	Sept. 21, 1875	621	199	8	511
168, 778	Perry, Joseph R., Wilkesbarre, Pa. Organ-coupler.	Oct. 11, 1875	441	143	8	635
	Perry, Nathan B. (See Perry, Dickey & Liddle, assignors.)					
	Perry Safety Car-Coupling Company. (See Perry, William V., assignor.)					

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160, 616	Perry, Walter R., New York, N. Y., assignor of one-half interest to David W. Thompson, New Haven, Conn. Hinge for safe-doors, &c.	Mar. 9, 1875	334	112	7	405
	Perry, W. H. (See Snyder, William B., assignor.)					
160, 949	Perry, William V., Beaver Dam, Wis., assignor of two-thirds interest to John Aiken and Eli Quaintance, Kokomo, Ind. Paper-clip.	Mar. 16, 1875	652	213	7	455
163, 519	Perry, William V., Beaver Dam, Wis., assignor to Perry Safety Car Coupling Company, Kokomo, Ind. Car-coupling.	May 18, 1875	765	{ 242 243	7	870
	Pessenger, John S., et al. (See De Forest, Thomas B., assignor.)					
168, 525	Peterman, Jacob, Short Creek, Ohio. Gate-latch.	Oct. 5, 1875	187	61	8	591
167, 929	Peters, Alfred E., Moncton, Canada. Combination-lock.	Sept. 21, 1875	511	163	8	495
169, 727	Peters, Charles, Mechanicsville, Va., assignor to Charles Boese & Co., New York, N. Y. Reagent for testing the strength of vinegar.	Nov. 9, 1875	407	129	8	796
	Peters, Daniel, et al. (See Brewster, John C., assignor.) (Reissue.)					
6, 236	Peters, Daniel, Burlington, Iowa, assignor, by mesne assignments, to self and Murray Iron Works Company. Meat-chopper.	Jan. 19, 1875	637	211	7	126
	Same. (Reissue.)	Jan. 19, 1875	638	212	7	126
6, 237	Same. (Reissue.)	June 29, 1875	1130	365	7	1116
165, 022	Peters, Daniel, Cincinnati, Ohio. Carpet stretcher and holder.					
	Peters, George B. (See Betts, Ira G., assignor.)					
6, 516	Peters, William, Boston, Mass., assignor, by mesne assignments, to Horatio D. Jarves. Covering for steam-boilers.	June 29, 1875	1246	401	7	1133
6, 688	Peters, William, deceased, assignor, by mesne assignments, to Joseph C. Manning, trustee, Baltimore, Md. Packing for steam and other engines.	Oct. 11, 1875	480		8	640
164, 477	Peters, William D., and George H. Holt, Boston, Mass. Device for automatically discharging water from ships, &c.	June 15, 1875	616	199	7	1032
	Petersen, Niels, et al. (See Tinnerholm, Charles J., assignor.)					
160, 708	Petersohn, August, Washington, D. C. Combined envelope and letter-sheet.	Mar. 9, 1875	416	138	7	417
163, 520	Same. Postal card.	May 18, 1875	767	243	7	870
158, 649	Peterson, Albert H., Philadelphia, Pa. Water cooler and filter.	Jan. 12, 1875	280	94	7	63
164, 206	Peterson, Andrew A., assignor of one-half interest to Nels J. Nelson, Chicago, Ill. Cooking-stove ventilator.	June 8, 1875	345	118	7	989
163, 689	Peterson, Jacob G., Morgantown, N. C. Motor.	May 25, 1875	923	294	7	899
164, 760	Same. Bridle-bit.	June 15, 1875	710	231	7	1046
169, 576	Peterson, Nicolai, Chicago, Ill. Oil-can.	Nov. 2, 1875	236	78	8	766
162, 856	Peterson, Peter, New Milford, Conn. Fireman's extension-ladder.	May 4, 1875	110	35	7	761
7, 989	Petit, Eugene, Paris, France, assignor to Alexander Smith & Sons Carpet Company, Yonkers, N. Y. Carpet.	Jan. 5, 1875			7	5
	Same. (Design.)	Jan. 5, 1875			7	5
7, 991	Same. (Design.)	Jan. 5, 1875			7	5
163, 521	Petitdidier, Jean B. C. H., St. Denis, France. Process of dyeing silk fabric.	May 18, 1875	768		7	870
158, 975	Petree, Simon B., and Adam C. Henslee, Minier, Ill. Car-coupling.	Jan. 19, 1875	599	199	7	121
162, 855	Petry, Nikolaus, Rockport, Mo. Extension-table.	May 4, 1875	109	35	7	761
164, 207	Same. (Design.)	June 8, 1875	346	118	7	989
166, 806	Petry, John, New York, N. Y. Sofa-bedstead.	Aug. 17, 1875	605	187	8	302
159, 444	Pettengill, Manasseh, Minneapolis, Minn., assignor of one-half interest to W. A. Merriam, Minneapolis, Minn. Car-coupling.	Feb. 2, 1875	184	62	7	210
170, 587	Pettes, Moses M., Worcester, Mass. Machine for making coal-dust, &c., into blocks.	Nov. 30, 1875	1254	395	8	932
169, 116	Pettis, Isaac and William G., Putnam, Conn. Attachable vehicle-runner.	Oct. 26, 1875	789	{ 255 256	8	698
	Pettis, William G. (See Pettis, Isaac, and William G.)					
159, 116	Pettit, Ethan H., assignor to self and Dellamar Wade, Twin Lake, Mich. Spring-bolt fastening for tongues, whiffletrees, &c.	Jan. 26, 1875	754	248	7	149
	Pettyjohn, Louisa B. (See Millet, John W., assignor.)					
	Pugh, Norman R. (See Ransom & Pugh.)					
165, 363	Pevey, Charles K., Worcester, Mass. Flier for spinning-machines.	July 6, 1875	200	60	8	36
	Pevey, John M. (See Foss, John F., assignor.)					
164, 591	Peyer, Jacob, Berne, Switzerland. Artificial palate.	June 15, 1875	711	231	7	1046
163, 690	Peyer, Johann, Wahrung, Austria, assignor to Joseph R. Von Wesseley, New York, N. Y. Window-blind.	May 25, 1875	924	294	7	899
8, 878	Pfautz, Simon, Philadelphia, Pa. Breast-pin. (Design.)	Dec. 28, 1875			8	1076
171, 315	Pfannenstiehl, Charles, Memphis, Tenn. Cork for bottling beer and similar liquids.	Dec. 21, 1875	650		8	1051
158, 976	Pfautz, Daniel M., and Leopold Sternberger, Philadelphia, Pa. Hoisting-apparatus.	Jan. 19, 1875	600	199	7	121
163, 403	Pfeiffer, Phillip, New York, N. Y. Lumber-drier.	May 18, 1875	654	209	7	856
167, 470	Pfeiffer, Anselm, New York, N. Y. Glass monument.	Sept. 7, 1875	78	24	8	417
169, 474	Pfeiffer, Jacob, assignor to self and Paul Koch, Brooklyn, N. Y. Yeast-compound.	Nov. 2, 1875	137		8	754
159, 445	Pforr, August, Baltimore, Md. Funnel.	Feb. 2, 1875	184	63	7	210
159, 960	Pfund, Anthony, New York, N. Y. Faucet.	Feb. 16, 1875	691	230	7	292
	Pharis, Isaac R. (See Aldrich, George W., assignor.)					
164, 325	Phelan, William D., Pittsburgh, Pa. Wire rack for exhibiting shirts.	June 8, 1875	459	152	7	1003
158, 732	Phelon, George W., Chicago, Ill. Freight-car door.	Jan. 12, 1875	352	119	7	73
160, 839	Phelps, Benjamin F., Kansas City, Mo. Device for moving railway-cars.	Mar. 16, 1875	558	181	7	442
161, 544	Phelps, Daniel T., and Charles W. Edmonds, San Francisco, Cal. Fire-alarm register.	Mar. 30, 1875	1237	398	7	549
	Phelps, Fitch. (See Eldredge, Alonzo W., assignor.)					
	Phelps, George. (See Beddow & Jackson, assignors.)					
	Phelps, George H. (See Frost & Phelps.)					
161, 151	Phelps, George M., Brooklyn, N. Y. Printing-telegraph.	Mar. 23, 1875	845	{ 275 276 192 193	7	490
168, 919	Same. (Design.)	Oct. 19, 1875	583		8	663
166, 629	Phelps, Gilson V., assignor to self and George W. Ingraham, Newark, Ohio. Machine for sharpening mowing-machine knives, &c.	Aug. 10, 1875	423	131	8	267
164, 478	Phelps, Ira M., assignor of one-half interest to John H. Scott, Philadelphia, Pa. Permanent flour of camphor.	June 15, 1875	617		7	1032
159, 961	Phelps, Myron D., Bristolville, Ohio. Lightning-rod.	Feb. 16, 1875	691	230	7	292
	Phelps, William H., et al. (See Fell, Ambrose G., assignor.)					
	Phelps, William J., et al. (See Gibson, Jacob H., assignor.)					
	Same. (See Kempshall, Eleazer, assignor.)					
	Phelps, William M. (See Eggleston & Phelps.)					
	Philadelphia Disintegrating Mill and Manufacturing Company. (See Hendricks, J. Moore, assignor.)					
162, 414	Philbrick, Alvah A., Cold Water, Mich. Wheel for vehicles.	Apr. 20, 1875	770	250	7	689
6, 472	Philbrick, Warren C., Lynn, Mass., assignor to Jos. D. Husbands, Saint Louis, Mo. Fire-kindler.	June 1, 1875	217	76	7	959
	Philip, William H., trustee. (See Graham, William A., assignor.)					
170, 895	Philippi, Frederick, Saint Louis, Mo. Water-meter.	Dec. 7, 1875	211	73	8	979
6, 699	Philips, Dewey, Shaftsbury, Vt., and William Reid, West Hebron, N. Y., assignors to William Reid. Manufacture of barrels.	Oct. 11, 1875	492	159	8	642

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164, 031	Phillips, William J., Philadelphia, Pa. Electric signaling and recording apparatus	June 1, 1875	164	58, 59	7	953
163, 244	Phillippi, Francis A., Reading, Pa. Picture-frame hanger	May 11, 1875	488	158	7	818
162, 415	Phillippi, Francis A., assignor to Charles F. Glase and Simon H. Foreman, Reading, Pa. Knife-cleaner	Apr. 20, 1875	771	250	7	689
166, 630	Phillips, Albert J. R., et al. (See Phillips, Samuel R., assignor.)					
166, 550	Phillips, Albert J. R., assignor to Samuel R., C. L., and Albert J. R. Phillips, Philadelphia, Pa. Ice-creeper	Aug. 10, 1875	424	131	8	267
166, 550	Phillips, Augustus K., New York, N. Y. Needle-wrapper	Aug. 10, 1875	354	109	8	257
160, 277	Phillips, B. W., et al. (See Muther & Hentschel, assignors.)					
159, 446	Phillips, Charles B., Chicago, Ill. Railway-rail joint	Mar. 2, 1875	20	8	7	531
159, 446	Phillips, Charles H., New York, N. Y. Manufacturing milk of magnesia	Feb. 2, 1875	185		7	210
	Phillips, Charles L., et al. (See Phillips, Samuel R., assignor.)					
	Phillips, C. L., et al. (See Phillips, Albert J. R., assignor.)					
	Phillips, Eldred H. (See Beckwith & Brown, assignors.)					
	Phillips, George A., et al. (See Souther, Joseph, assignor.)					
162, 857	Phillips, George H., Troy, N. Y. Reservoir cooking-stove	May 4, 1875	111	36	7	761
167, 783	Phillips, Henry H., Buffalo, N. Y. Machine for painting cloth	Sept. 14, 1875	373	119	8	466
161, 057	Phillips, James, Thornton, Ind. Revolving harrow	Mar. 23, 1875	753	248	7	472
163, 884	Phillips, John V., New Buffalo, Mich. Hold-back	June 1, 1875	41	14	7	936
170, 764	Phillips, Joseph, Smithton, Ill. Plow	Dec. 7, 1875	102	32	8	964
	Phillips, Menzo D. (See Carr & Phillips.)					
158, 518	Phillips, Moreau, Springfield, Ill. Cheese-cutter	Jan. 5, 1875	148	50	7	29
161, 270	Phillips, Moreau, assignor of one-half interest to Horace A. Morgan, Springfield, Ill. Excavator	Mar. 23, 1875	960	313	7	505
171, 529	Phillips, Nathan M., New York, N. Y. Safety-pin	Dec. 28, 1875	865	283	8	1089
163, 404	Phillips, Orson D., Lisle, N. Y. Implement for loading fire-arms	May 18, 1875	654	209	7	856
165, 861	Phillips, Phineas W., Salem, Mass. Curtain-roller	July 20, 1875	723	220	8	132
	Phillips, Samuel R., et al. (See Phillips, Albert J. R., assignor.)					
153, 447	Phillips, Samuel R., assignor to self and Charles S. and Albert J. R. Phillips, Philadelphia, Pa. Ice-creeper	Feb. 2, 1875	186	63	7	210
165, 686	Phillips, Thomas J., Washington, D. C. Sketching and phonographic case	July 20, 1875	552	168	8	102
170, 013	Phillips, William H., Bridgeton, N. J. Crank-stop	Nov. 16, 1875	687	215	8	839
6, 233	Phillips, William L., Normal, Ill. Fire-place heater	Jan. 12, 1875	404	136	7	80
158, 809	Phillips, Zachariah C., Pittsburgh, Pa. Boring-machine	Jan. 19, 1875	442	147	7	101
	Phillipson, Raphael. (See Goldstein, Jacob, assignor.)					
158, 733	Philp, John W., Humboldt, Tenn. Bale-tie	Jan. 12, 1875	352	120	7	73
161, 819	Same	Apr. 6, 1875	203	68	7	598
163, 522	Same	May 18, 1875	768	243	7	870
163, 803	Same	May 25, 1875	1022	324	7	912
169, 117	Phinney, Charles H., Boston, Mass. Revolution-indicator	Oct. 26, 1875	790	256	8	699
160, 278	Phinney, Smith H., assignor to William S. Rowe, Rochester, N. Y. Curtain-fixture	Mar. 2, 1875	20	8	7	351
8, 455	Phipps, Frank H. (See Gill, Jabez H., assignor.)					
8, 456	Phipps, James, Philadelphia, Pa. Nubia	July 6, 1875			8	4
	Same	July 6, 1875			8	4
166, 631	Phipps, Thomas L., Birmingham, England. Animal-clipper	Aug. 10, 1875	424	131	8	267
160, 709	Phoenix, James H., and John Curtis, Cincinnati, Ohio. Spring-vehicle	Mar. 9, 1875	417	139	7	417
160, 118	Pickel, Russel, assignor to self, Joseph G. Sawyer, and D. Kingsley, Keeseville, N. Y. Railway-rail joint	Feb. 23, 1875	850	280	7	321
	Pickels, James C., et al. (See Collins, M. Grier, assignor.)					
161, 820	Picken, Matthew and William, Birmingham, England. Vise	Apr. 6, 1875	203	68, 69	7	598
	Picken, William. (See Picken, Matthew and William.)					
163, 405	Pickering, Cyrus C., et al. (See Johnson, Henry M., assignor.)					
168, 181	Pickering, Isaac P., Table Grove, Ill. Horseshoeing-harness	May 18, 1875	655	209	7	856
158, 650	Same	Sept. 28, 1875	772	245	8	538
	Pickering, Joseph, assignor of one-half interest to Joseph M. Pickering, Philadelphia, Pa. Machine for combing and cutting grass and bristles	Jan. 12, 1875	281	94	7	63
170, 766	Pickering, Joseph M. (See Pickering, Joseph, assignor.)					
	Pickering, William H., Boston, Mass. Weather-vane	Dec. 7, 1875	104	33	8	964
	Pickersgill, John A. (See Hagerty, Thomas, assignor.)					
169, 728	Pickett, Andrew G., jr., Yuma Depot, Ariz. King-bolt	Nov. 9, 1875	408	129	8	796
166, 297	Pickett, Fannie L., Florence, Ala. Shirt-bosom	Aug. 3, 1875	103	32	3	214
162, 098	Pickett, Valentine W., Baldwin, Iowa. Churn	Apr. 13, 1875	451	150	7	642
6, 321	Pickles, James C., Wilmington, Del., assignor of one-half interest to James P. Hayes. Car-spring	Mar. 9, 1875	450	149	7	421
161, 058	Pidgeon, George S., Pulaski County, Ill. Insulating-block for telegraph-lines	Mar. 23, 1875	754	248	7	479
164, 872	Piehl, John F., assignor of part interest to John H. McIntyre and James E. Taylor, Richmond, Ind., and George Krick, Philadelphia, Pa. Stove-pipe elbow	June 22, 1875	983	317	7	1090
166, 029	Same	July 27, 1875	891	275	8	167
170, 767	Pienovi, Joseph, Newark, N. J. Rubber boot	Dec. 7, 1875	104	33	8	964
169, 729	Pierce, Charles L., and Horace A. Pinkham, assignors to George F. Pinkham, Boston, Mass. Hot-air furnace	Nov. 9, 1875	409	129	8	796
6, 750	Pierce, Charles W., New York, N. Y. Rotary steam-boiler	Nov. 16, 1875	831	261	8	858
166, 807	Same	Aug. 17, 1875	606	187	8	302
161, 983	Pierce, David J., assignor of one-half interest to Christopher A. Scranton, New Haven, Conn. Game apparatus	Apr. 13, 1875	354	119	7	629
167, 116	Pierce, Dexter L., and Frank W. Griswold, Providence, R. I. Fire-alarm register	Aug. 24, 1875	913	285	8	354
	Pierce, Elizabeth A., administratrix. (See Pierce, Silas L.)					
	Pierce, Frank W. (See Hadcock & Pierce.)					
167, 784	Pierce, Franklin R., et al. (See Pierce, James D., assignor.)					
160, 465	Pierce, George R., Grand Rapids, Mich. Spoon-hook for fishing	Sept. 14, 1875	374	119	8	466
166, 551	Pierce, James D., assignor of two-thirds interest to John B. Smith and Franklin R. Pierce, Milwaukee, Wis. Lamp-holder	Mar. 2, 1875	186	64	7	375
	Pierce, James D., assignor of one-half interest to John B. Smith, Milwaukee, Wis. Stench-trap	Aug. 10, 1875	355	109	8	257
166, 552	Same	Aug. 10, 1875	355	109	8	257
167, 270	Pierce, James D., and John B. Smith, Milwaukee, Wis. Fire-proof shutter	Aug. 31, 1875	1071	334	8	383
167, 562	Pierce, James D., assignor of one-half interest to John B. Smith, Milwaukee, Wis. Water-tube boiler	Sept. 7, 1875	160	50	8	429
170, 490	Same	Nov. 30, 1875	1162	366	8	920
165, 862	Pierce, John A., Philadelphia, Pa. Carbureter	July 20, 1875	724	220	8	132
164, 592	Pierce, Marvin, Minneapolis, Minn. Heating-stove	June 15, 1875	711	232	7	1046

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 189	Pierce, Silas L., deceased, by Elizabeth A. Pierce, administratrix, Esconawba, Mich. Ore-car	Apr. 20, 1875	555	182	7	662
160, 226	Pierce, Truman L., assignor of one-half interest to Joseph M. Segur, Akron, Ohio. Engine-hose	Feb. 23, 1875	942	310	7	334
166, 138	Pieri, Jacques P., Ghisoni, Corsica, assignor to William Smith, London, England. Breech-loading fire-arm	July 27, 1875	1000	308	8	183
170, 896	Pierpont & Tuttle. (See Pierpont, Joshua, assignor.)					
171, 420	Pierpont, Joshua, assignor to Pierpont & Tuttle, Bushnell, Ill. Whiffletree-eye	Dec. 7, 1875	212	73	8	979
	Pierpont, Joshua, Bushnell, Ill. Cultivator	Dec. 21, 1875	745	245	8	1064
	Pierson, James T. (See Miller, Martin D., assignor.)					
165, 863	Pierson, William A., Valley Forge, Pa. Bridle-bit	July 20, 1875	725	221	8	132
169, 373	Pifer, Michael, Eureka, Ill. Cooking-steamer	Nov. 2, 1875	52	16	8	742
8, 160	Piggott, George W., New York, N. Y., assignor to Hartford Carpet Company, Hartford, Conn. Carpet (Design)	Feb. 23, 1875			7	302
	Piggott, Jabez J., et al. (See Rawson, George W., assignor.)					
162, 303	Pigot, James, Brooklyn, N. Y. Lamp-burner	Apr. 20, 1875	659	215	7	676
8, 415	Pike, Charles F., Philadelphia, Pa. Vase (Design)	June 22, 1875			7	1057
163, 691	Pike, Edwin S., assignor to George Crompton, Worcester, Mass. Heddle-frame	May 25, 1875	925	294	7	899
167, 357	Same	Aug. 31, 1875	1147	361	8	394
165, 252	Pike, Hervey L., Seattle, Wash. Baling-press	July 6, 1875	101	30	8	22
	Pike, Ruthven W. (See Ingalls, William A., assignor.)					
160, 279	Pike, William G., Philadelphia, Pa. Flue-cleaner	Mar. 2, 1875	21	8	7	352
171, 316	Pilinsky, C. Albert, Saint Louis, Mo. Toy gun	Dec. 21, 1875	650	213	8	1052
	Pilkington, Joseph W. (See Ives & Pilkington.)					
166, 632	Pillard, Oliver E., assignor to F. H. North, New Britain, Conn. Time-lock	Aug. 10, 1875	426	132	8	267
171, 043	Pillsbury, Daniel D. C., Lynn, assignor to self and Cyrus D. Hunt, Fairhaven, Mass. Shoe-nail	Dec. 14, 1875	363	121	8	1006
164, 326	Pinkerton, John, Philadelphia, Pa. Die for forming the eyes of hammers	June 8, 1875	460	152	7	1003
	Pinkham, George F. (See Pierce & Pinkham, assignors.)					
	Pinkham, Horace A. (See Pierce & Pinkham.)					
	Pinkney, Robert. (See Sellon & Pinkney.)					
165, 502	Pinks, Thomas R., Bristolville, Ohio. Pick	July 13, 1875	369	109	8	66
160, 029	Pinney, Forest L., and Robert H. Hasty, Anoka, assignors of one-third interest to C. F. Washburn, Minneapolis, Minn. Lumber-carrier	Feb. 23, 1875	776	256	7	310
171, 166	Pinney, Norman G., New Hudson, Mich. Plow	Dec. 14, 1875	487	161	8	1022
	Pins, Henry. (See Gmeiner, Mathias, assignor.)					
162, 946	Pintsch, Richard, Berlin, Prussia. Apparatus for lighting railway-cars	May 4, 1875	195	64	7	773
162, 947	Pintsch, Richard J., Berlin, Prussia. Treating leather for gas-regulator diaphragms	May 4, 1875	196		7	773
	Piper, Anson S., et al. (See Nelson, Nels P., assignor.)					
161, 152	Piper, John L., and John A. Nichols, Pittsburgh, Pa. Machine for corrugating sheet-metal	Mar. 23, 1875	847	276	7	490
167, 117	Piper, John L., Pittsburgh, Pa. Machine for capping the joint-flanges of hollow columns and cylinders	Aug. 24, 1875	915	285	8	354
	Piper, Seth, et al. (See Nelson, Nels P., assignor.)					
	Piper, Thomas, et al. (See Nelson, Nels P., assignor.)					
6, 565	Pipo, John A., assignor, by mesne assignments, to George H. Wooster, New York, N. Y. Machine for making ruffles (Reissue)	July 27, 1875	1049	322	8	189
8, 449	Pisch, Francis L., New York, N. Y. Advertising-lantern (Design)	June 29, 1875			7	1098
	Piteairn, Robert, et al. (See Kinzer, Jacob, assignor.)					
167, 687	Pitcher, Edward, Brooklyn, N. Y. Sinker for fishing-lines	Sept. 14, 1875	283	89	8	453
	Pitcher, Herbert A., et al. (See Johnson, William H., assignor.)					
164, 933	Pitkin, Albert P., Hartford, Conn. Heating and ventilating public buildings	June 29, 1875	1059	341	7	1107
162, 495	Pitt, William, assignor of one-half interest to Charles A. Vogeler and Adolph C. Meyer, Baltimore, Md. Machine for cutting meat for packing	Apr. 27, 1875	867	278	7	709
160, 030	Pitts, John H., Oakland, Cal. Compound for the prevention of scales in steam-boilers	Feb. 23, 1875	776		7	310
163, 245	Pitts, John H., San Francisco, Cal. Broom-handle socket	May 11, 1875	488	159	7	818
	Pitts' Sons Manufacturing Company, H. A. (See Coy, Franklin D., assignor.)					
	Pittsburgh Chain and Car Link Manufacturing Company. (See Hershey, Benjamin, assignor.)					
	Same same (Reissue.)					
	Pittsburgh Steel Casting Company. (See Hainsworth, William, assignor.)					
	Same (See McCune, William H., assignor.)					
170, 391	Place, Delavan C., Gloversville, N. Y. Scaffold	Nov. 23, 1875	1056	332	8	897
170, 765	Place, Wallace, and Robert Cunningham, Cambridge, Mass. Polishing-machine for boots and shoes	Dec. 7, 1875	103	32	8	964
	Planck, Elijah. (See Fouts & Planck.)					
158, 436	Plank, John H., Bloomfield, Iowa. Sewing-machine caster	Jan. 5, 1875	71	25	7	19
	Plant, Frederick. (See Bartlett & Plant.)					
163, 804	Plant, Pascal, assignor of one-half interest to Peter Hannay, Washington, D. C. Laced boot and shoe	May 25, 1875	1023	324	7	912
	Planters' Cotton-Tie Association. (See Jordan, William A., assignor.)					
166, 407	Plantron, Charles N., Rouen, France. Cylinder for carding-machines	Aug. 3, 1875	209	63	8	228
161, 351	Plastridge, Asa A., Chicago, Ill. Bottle for mustard	Mar. 30, 1875	1049	341	7	524
168, 668	Platt, Benjamin F., Vienna, La. Cotton-press	Oct. 11, 1875	346	113	8	621
163, 103	Platt, Gloud, Colliersville, N. Y. Horse hay-rake	May 11, 1875	359	117	7	802
	Platt, James F. (See Tracy & Platt.)					
163, 406	Platt, John W., Mineral City, Nev. Machine for removing broken drills from holes	May 18, 1875	655	209	7	856
164, 327	Pleas, Maurice E., North Manchester, Ind. Tailor's shears	June 8, 1875	461	152	7	1004
168, 284	Plessner, Johann M., London, England. Advertising-table	Sept. 28, 1875	862	275	8	551
171, 485	Ploss, Adam, Menomonee Falls, Wis. Sewing-machine	Dec. 28, 1875	822	269 } 270 }	8	1083
163, 885	Plumb, Freeman B., New York, N. Y., assignor to J. B. Brewster & Co. Slat-iron for carriage-tops	June 1, 1875	42	14	7	936
	Plumb, George, et al. (See Peacock, George H., assignor.)					
	Plumbe, George E., et al. (See Gue, Albert F., assignor.) (Reissue.)					
	Plume and Atwood Manufacturing Company. (See Atwood, Lewis J., assignor.)					
	Plume, David J. (See Belcher & Plume.)					
168, 920	Plummer, Jerome H., Brooklyn, N. Y. Scroll-sawing machine	Oct. 19, 1875	585	193	8	663
164, 100	Plymale, Sebastian, Portland, Oreg. Dynamic wrench	June 8, 1875	253	87	7	976
163, 246	Plympton, Charles R., Jersey City, N. J. Vest	May 11, 1875	489	159	7	818
160, 710	Plympton, Nathaniel, Boston, Mass., assignor to Bradley & Hubbard, West Meriden, Conn. Window-bracket hook	Mar. 9, 1875	418	139	7	417
165, 945	Plympton, Warren H., Providence, R. I. Sash-holder	July 27, 1875	815	250	8	156
169, 577	Poage, John N., Cincinnati, Ohio. Water-supply apparatus	Nov. 2, 1875	237	78	8	766
164, 762	Poindexter, Robert E., Anderson, Ind. Saw jointer and gage	June 22, 1875	876	285	7	1077

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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8, 834	Poinier, Charles P., Boston, Mass. Corner-piece for picture-frames (Design)	Dec. 7, 1875			8	946
159, 552	Poinier, Charles P., Boston, Mass., assignor to F. A. Howard and H. M. A. Poor, Belfast, Me. Mitering-machine	Feb. 9, 1875	309	100	7	234
170, 392	Poinier, Charles P., assignor of one-half interest to George S. Bryant & Co., Boston, Mass. Corner piece and clamp for picture-frames	Nov. 23, 1875	1057	332	8	897
166, 139	Poland, John C., jr. (See Peet, Poland & Willis.)					
169, 034	Poland, Melville C. (See Peet, Poland & Willis.)					
166, 139	Polk, Andrew J., Millersburgh, Pa. Dental plugger	July 27, 1875	1001	308	8	183
169, 034	Pollard, James M., New Orleans, La., assignor to self and Wallace W. Barton, Galveston, Tex. Carbureter	Oct. 19, 1875	687	227	8	677
166, 553	Pollard, Leonard L., Worcester, Mass. Hand-vise	Aug. 10, 1875	355	110	8	257
167, 563	Polle, Frederick W., Louisa Keisker, and Sallie Polle, Port Gibson, Miss. Art of knitting stockings and other articles	Sept. 7, 1875	161	51	8	429
	Polle, Sallie. (See Polle, Keisker & Polle.)					
170, 390	Polmateer, William A., Johnstown, N. Y. Overstitch sewing-machine	Nov. 23, 1875	1055	332	8	897
159, 838	Polster, Ferdinand, Baltimore, Md. Repeating action for pianos	Feb. 16, 1875	578	192	7	276
170, 393	Pomeroy, H. Sterling, assignor to Blake Brothers Hardware Company, New Haven, Conn. Reversible latch	Nov. 23, 1875	1058	333	8	897
163, 104	Pomeroy, James V., Boulder, Colo. Ore-concentrator	May 11, 1875	360	117	7	802
170, 642	Same same	Nov. 30, 1875	1307	413	8	939
	Poncelet, Mathias. (See Lajoie & Poncelet.)					
168, 285	Pond, Daniel B., Woonsocket, R. I. Washing-machine	Sept. 28, 1875	863	276	8	551
161, 821	Pond, Erasmus A., Rutland, Vt. Sphygmoscope	Apr. 6, 1875	205	69	7	598
6, 322	Pond, Levi W., assignor to self and Eau Claire Lumber Company, Eau Claire, Wis. Saw-swaging machine	Mar. 9, 1875	450	149	7	421
165, 946	Pond, Levi W., Eau Claire, Wis. Saw-mill head-block	July 27, 1875	815	250	8	156
160, 347	Pond, Levi W., assignor of one-half interest to Eau Claire Lumber Company, Eau Claire, Wis. Sheer-rudder for booms	Mar. 2, 1875	80	28	7	360
160, 348	Same Saw-mill	Mar. 2, 1875	81	28	7	360
	Pond, Lewis. (See Sprague, William F., assignor.)					
167, 785	Pond, William R., Stockton, Cal. Sphygmoscope	Sept. 14, 1875	374	120	8	466
163, 247	Ponsard, Auguste, Paris, France, assignor to William Sellers, Philadelphia, Pa. Process and apparatus for generating gaseous fuel	May 11, 1875	490	159	7	818
158, 865	Pontez, Charles, Omaha, Nebr. Making artesian and other wells	Jan. 19, 1875	492	166	7	108
162, 575	Pontifex, Edward A., London, England. Liquid-measure	Apr. 27, 1875	933	300	7	718
165, 612	Ponton, John, Titusville, Pa. Automatic water-test for hydrocarbons	July 13, 1875	467	143	8	81
170, 014	Ponvert, Elias, jr., New York, N. Y. Electrical water-raising apparatus	Nov. 16, 1875	688	216	8	839
	Pool, Harris. (See Bailey & Pool.)					
160, 227	Pool, Joseph F., Monroe, Wis. Milk-safe	Feb. 23, 1875	943	310	7	334
6, 323	Poole, J. Morton, Wilmington, Del., assignor to self, William T. Porter, and Thomas S. Poole. Machine for grinding rolls or rollers	Mar. 9, 1875	451	149	8	421
	Poole, Thomas S., et al. (See Poole, J. Morton, assignor)					
164, 479	Poolman, James, Providence, R. I. Extension-table	June 15, 1875	618	200	7	1032
	Poor, H. M. A., et al. (See Poinier, Charles P., assignor.)					
161, 934	Poore, James M., Burnett, Wis. Bench-vise	Apr. 13, 1875	355	119	7	630
6, 578	Pope, Frank L., Elizabeth, assignor to self, James N. Ashley, Greenville, N. J., Stephen C. Hendrickson, Brooklyn, N. Y., and James D. Lincoln, Greenville, N. J. Electric signaling apparatus for railways	Aug. 3, 1875	260	78	8	236
6, 579	Same same	Aug. 3, 1875	263	79, 78	8	236
167, 786	Pope, Harvey D., Dayton, Ohio. Device for hanging pictures, mirrors, &c	Sept. 14, 1875	376	120	8	466
170, 588	Pope, Willard S., Detroit, Mich. Air-shaft for pneumatic caissons	Nov. 30, 1875	1259	396	8	933
169, 578	Poppenhusen, Adolph, College Point, N. Y. Band-comb	Nov. 2, 1875	238	78	8	766
	Popper, David. (See Popper, Joseph, assignor.)					
168, 779	Popper, Joseph, assignor of one-half interest to David Popper, Vienna, Austria. Sediment-collector for steam-boilers	Oct. 11, 1875	442	144	8	635
170, 492	Port, Henry, Stapleton, N. Y. Wrench	Nov. 30, 1875	1163	367	8	920
166, 476	Porter, Alonzo W., New York, N. Y. Gas-carbureter	Aug. 10, 1875	296	88	8	248
168, 048	Porter, Alonzo W., and Francis M. Grimes, New York, N. Y. Air and gas carbureter	Sept. 21, 1875	623	199	8	511
159, 213	Porter, Ansell W., Syracuse, N. Y. Egg-holder	Jan. 26, 1875	842	275	7	162
162, 416	Same Stair-rod	Apr. 20, 1875	771	250	7	689
168, 780	Porter, Archibald A., Griffin, Ga. Hoe	Oct. 11, 1875	444	144	8	635
165, 176	Porter, Benjamin S., Ottawa, Ill. Whiffletree-plate	July 6, 1875	35	10	8	13
176, 491	Porter, Benjamin S., assignor of one-half interest to Joshua G. Gay, Ottawa, Ill. Thill-coupling	Nov. 30, 1875	1163	367	8	920
	Porter, Charles T., et al. (See Allen, John F., assignor.)					
166, 889	Porter, Christopher B., Philadelphia, Pa. Stand for water-coolers	Aug. 17, 1875	683	212	8	313
165, 503	Porter, Edward, New York, N. Y. Damper mechanism for piano-fortes	July 13, 1875	370	109	8	67
165, 364	Porter, Edward N., and Melville B. Eaton, Morrisville, Vt. Milk-cooler	July 6, 1875	201	60	8	36
167, 564	Porter, Edward N., William E. Hawes, and Charles R. Page, Morrisville, Vt. Rein-holder	Sept. 7, 1875	162	51	8	429
158, 734	Porter, Elbert B., Havana, Cuba. Screw-propeller	Jan. 12, 1875	353	120	7	73
	Porter, Frank C. (See Waggoner, Samuel T., assignor.)					
164, 390	Porter, Frederick W., Springfield, Vt. Toy wagon	June 15, 1875	534	175	7	1022
162, 858	Porter, Henry, Polo, Ill. Harvester	May 4, 1875	112	36, 37	7	762
	Porter, Henry W., et al. (See Long, George S., assignor.)					
165, 023	Porter, John C., New York, N. Y. Self-setting animal-trap	June 29, 1875	1131	365	7	1116
159, 839	Porter, Nancy A., Warren, Ohio. Slate-frame	Feb. 16, 1875	579	192	7	277
160, 840	Porter, Otis F., Bridgeport, Conn. Clothes-pin	Mar. 16, 1875	559	181	7	443
161, 545	Porter, Roger W., Nashua, N. H. Loom-shuttle	Mar. 30, 1875	1239	398	7	549
169, 837	Same Shuttle for looms	Nov. 9, 1875	521	163	8	809
158, 437	Porter, Samuel L., and Duane Peck, Rochelle, Ill. Railway-tie	Jan. 5, 1875	72	25	7	19
161, 153	Same Railway-rail supporter	Mar. 23, 1875	848	276	7	490
170, 109	Porter, Stephen, Boston, Mass. Buckle	Nov. 16, 1875	777	246	8	851
161, 985	Porter, Thomas W., Revore, Mass. Sled-runner for vehicles	Apr. 13, 1875	356	120	7	630
162, 190	Porter, Thomas W., Boston, Mass. Baggage-truck	Apr. 20, 1875	555	182	7	662
	Porter, William M. (See Davenport & Porter.)					
	Portington, Ella, Factoryville, N. Y. Vegetable-dish	June 8, 1875	346	118	7	989
	Posey, H. C., et al. (See Wemyss, Alexander, assignor)					
168, 921	Pospisil, Rudolph J., Chicago, Ill. Curtain-fixture	Oct. 19, 1875	586	193	8	663
	Post & Co. (See Briggs, William H. and Arthur C., assignors.)					
159, 353	Post, Andrew J., Jersey City, N. J. Skylight-bar	Feb. 2, 1875	102	35	7	198

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 576	Post, Andrew J., Jersey City, N. J. Lift-bridge	Apr. 27, 1875	934	300	7	718
158, 977	Post, Ezra, Lockport, N. Y. Baby-tender	Jan. 19, 1875	601	200	7	122
163, 248	Post, George B., Bernards, N. J. Fire-proof ceiling and floor	May 11, 1875	493	160	7	818
	Post, John C. (See Agens & Post)					
161, 438	Post, Warren, and Mason Colbert, Warsaw, Mo. Seed-planter	Mar. 30, 1875	1133	365	7	535
162, 304	Postawka, Louis, Cambridgeport, Mass. Table	Apr. 20, 1875	659	215	7	676
168, 581	Potter, Albert H., assignor of one-half interest to John H. McMillan, Chicago, Ill. Bar- rel arbor for watches	Oct. 11, 1875	265	86	8	609
168, 582	Same..... Escapement for watches	Oct. 11, 1875	266	87	8	609
168, 583	Same..... Compensation-balance for watches	Oct. 11, 1875	267	87	8	609
	Potter, Bradford S. (See Farrington, George K., assignor.)					
169, 191	Potter, Charles, jr., and James F. Hubbard, Plainfield, N. J. Bearings for distributing rollers of printing-presses	Oct. 26, 1875	849	277	8	708
171, 243	Same..... Inking-apparatus for printing-presses	Dec. 21, 1875	587	192	8	1043
	Potter, Daniel. (See Hebdon, William, assignor)					
159, 840	Potter, Elias M., Rutherford Depot, Tenn. Seed-planter	Feb. 16, 1875	530	192	7	277
163, 523	Same..... Cultivator and harrow combined	May 18, 1875	769	243	7	870
	Potter, Fred. S., trustee. (See Lambart, Richard C., assignor.)					
160, 950	Potter, George A., New London, Conn. Device for removing wire fastenings from corks	Mar. 16, 1875	652	213	7	455
171, 167	Potter, George R., Buffalo, N. Y. Elevator for dwellings	Dec. 14, 1875	487	161	8	1022
167, 019	Potter, James E., and Alfred J. Richardson, Providence, R. I. Jeweler's screw-press	Aug. 24, 1875	822	256	8	341
	Potter, Joseph. (See Abell, Olif, assignor.)					
167, 930	Potter, Nicholas, Troy, N. Y. Horse-power	Sept. 21, 1875	532	163	8	495
160, 228	Potter, Robert M., and William W. Thomas, Jersey City, N. J. Gas-lighting apparatus	Feb. 23, 1875	944	310	7	334
162, 685	Same..... Gas-regulator	Apr. 27, 1875	1038	331	7	731
	Potter, Sons & Co., Thomas. (See Hutchinson, James, assignor)					
	Same..... (See Kagy, Henry, assignor)					
165, 864	Potter, Thaddeus, Jackson, Miss. Safety-attachment for pocket-books	July 20, 1875	726	221	8	132
168, 580	Potter, William, Leyden, N. Y. Machine for jointing and dressing circular saws	Oct. 11, 1875	264	86	8	609
160, 119	Potter, William J., assignor to self and Robert M. Wagen, Mount Lebanon, N. Y. Green- corn cutter	Feb. 23, 1875	851	281	7	321
	Potter, William R. (See Willis, Newel J., assignor.)					
	Potter, William W. (See Sprague, Watson N., assignor)					
161, 059	Potter, Wilson L., Hartford, Conn. Step-ladder	Mar. 23, 1875	754	248	7	479
	Pottinger, Milton. (See Lampson, Daniel, assignor.)					
164, 209	Potts, Joseph H., Penningtonville, Pa. Adjustable mechanism of dividers, compasses, and calipers	June 8, 1875	347	118	7	989
162, 305	Potwin, William S., Chicago, Ill. Tea-kettle handle	Apr. 20, 1875	660	215	7	676
165, 947	Same..... Coal-vase	July 27, 1875	817	250	8	157
	Pouch, A. J. (See Anderson, William H., assignor.)					
	Poulin, Louise, et al. (See Benac, Auguste, assignor.)					
165, 365	Poulson, Britton, Fort Wayne, Indiana. Spoke-socket	July 6, 1875	201	61	8	36
162, 306	Pounder, George H., Fort Atkinson, Wis. Harrow	Apr. 20, 1875	660	216	7	676
162, 948	Pounds, William H., assignor to Thomas J. Martin and David W. Stuart, Philadelphia, Pa. Gas-regulator	May 4, 1875	197	64	7	773
165, 253	Poundstone, Charles N., Grand Ridge, Ill. Safety-clevis	July 6, 1875	102	30	8	23
171, 589	Powell, Amos N., Alvarado, Tex. Bale-tie	Nov. 30, 1875	1259	396	8	933
159, 963	Powell, Edward, New York, N. Y., assignor to Domestic Sewing-Machine Company. Ruffler	Feb. 16, 1875	693	230	7	292
163, 692	Powell, Eugene, Delaware, Ohio. Fence-post	May 25, 1875	926	294	7	899
	Powell, George. (See Dyer & Powell.)					
6, 527	Powell, James, Cincinnati, Ohio. Globe-cock	July 6, 1875	248	75	8	42
6, 528	Same..... Globe-valve	July 6, 1875	249	75	8	42
6, 529	Same..... same	July 6, 1875	251	75	8	42
159, 962	Same..... Lubricator for steam-engines	Feb. 16, 1875	692	230	7	292
6, 306	Powell, John G., Philadelphia, Pa. Clamp for sewing-machine attachments	Feb. 23, 1875	971	319	7	339
6, 522	Powell, Thomas, Martinsville, Ind., assignor to Calvin Hersome. Boot and shoe. (Reissue)	June 29, 1875	1252	402	7	1134
162, 307	Powell, Thomas, Stockton, Cal. Hay and grain elevator	Apr. 20, 1875	661	216	7	676
163, 524	Powell, Thomas, Philadelphia, Pa. Burglar-alarm	May 18, 1875	770	244	7	871
	Powell, William. (See Miller & Powell.)					
	Power, John H. (See Fenner & Power.)					
	Power, Thomas E. D. (See Rasines & Power.)					
169, 579	Power, William H., Washington, D. C., and Charles T. Anderson, Clarksburgh, Md. Carriage-top	Nov. 2, 1875	239	78, 79	8	767
	Powers, Anna, executrix. (See Powers, Timothy J.)					
164, 658	Powers, Charles H., Philadelphia, Pa. Chuck	June 22, 1875	783	256	7	1064
170, 687	Powers, David J., Chicago, Ill. Bed-lounge	Dec. 7, 1875	31	9	8	955
171, 317	Powers, John, New York, N. Y. Pressure-gage	Dec. 21, 1875	651	213	8	1062
163, 805	Powers, Theodore D., Saint Louis, Mo. Cotton-press	May 25, 1875	1025	324	7	912
6, 618	Powers, Timothy J., deceased, by Anna Powers, executrix, New York, N. Y. Paper- box	Aug. 24, 1875	962	300	8	360
161, 546	Powers, William P., La Crosse, Wis. Filter-well	Mar. 30, 1875	1239	399	7	549
159, 964	Powlesson, William L., San Francisco, Cal. Smoke-consuming furnace	Feb. 16, 1875	695	231	7	292
163, 806	Powls, Levi W., assignor of one-half interest to F. W. Hunt, Valparaiso, Ind. Car- coupling	May 25, 1875	1025	325	7	912
163, 886	Poznanski, Joseph, New York, N. Y. Slate-pencil attachment	June 1, 1875	43	14	7	936
169, 580	Same..... Toy target	Nov. 2, 1875	240	79	8	767
167, 931	Prahar, Louis, New York, N. Y. Pocket-book fastener	Sept. 21, 1875	512	163	8	495
	Prall, William E., et al. (See Martin, Thomas J., assignor.)					
	Prang, Louis. (See Spurr & Prang.)					
	Pratt & Letchworth. (See Latta, Emmet G., assignor.)					
	Same..... (See Thornton, James, assignor.)					
	Pratt and Whitney Company. (See Grant, John J., assignor.)					
	Same..... (See Pratt, Francis A., assignor.)					
168, 182	Pratt, Benoni P., Chicago, Ill. Sewing-machine caster	Sept. 23, 1875	773	245	8	539
166, 140	Pratt, Bentley L., Le Raysville, Pa. Hand-truck	July 27, 1875	1002	308	8	183
	Pratt, Daniel R. (See Deyoe, Clifford P., assignor.)					
168, 845	Pratt, Daniel R., New York, N. Y. Car-spring	Oct. 19, 1875	513	168	8	653
168, 846	Same..... same	Oct. 19, 1875	513	168	8	653
170, 590	Same..... Rubber spring	Nov. 30, 1875	1260	396	8	933
	Pratt, Erasmus C., et al. (See Farmer, George P., assignor)					
162, 765	Pratt, Francis A., Hartford, Conn., assignor to Rufus N. Pratt, New York, N. Y. Steam- trap	May 4, 1875	26	9, 10	7	750

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No.	Name, residence, and invention	Date.	Monthly volume.		Official Gazette.	
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164, 391	Pratt, Francis A., assignor to Pratt and Whitney Company, Hartford, Conn. Metal-shearing machine.	June 15, 1875	535	176	7	1022
164, 392	Same..... Drop-hammer	June 15, 1875	536	176	7	1023
168, 412	Same..... Crane	Oct. 5, 1875	84	29	8	577
162, 191	Pratt, Frederic S., Worcester, Mass. Loom-heddle frame	Apr. 20, 1875	556	183	7	663
164, 032	Pratt, George M., Middletown, Conn. Chuck for metal-drills	June 1, 1875	166	59	7	953
8, 381	Pratt, Henry L., Brooklyn, N. Y. Bracket-saw frame. (Design.)	June 8, 1875			7	968
	Pratt, John H., et al. (See Farmer, George P., assignor.) (Design.)					
169, 475	Pratt, Lemuel O., New York, N. Y. Scroff-sawing machine.	Nov. 2, 1875	138	45	8	754
	Pratt, Miles. (See Walker & Pratt.)					
6, 455	Pratt, Milon, assignor to self and Pratt, Read & Co., Deep River, Conn. Machine for trimming keys of musical instruments. (Reissue.)	May 25, 1875	1065	336	7	917
162, 417	Pratt, Milon, assignor to Pratt, Read & Co., Deep River, Conn. Device for shaping piano-keys.	Apr. 20, 1875	772	251	7	689
165, 024	Pratt, Milon, Deep River, Conn. Manufacture of key-boards for organs, &c.	June 29, 1875	1132	365	7	1117
170, 394	Same..... Machine for slotting and drilling clothes-clamps	Nov. 23, 1875	1059	333	8	897
170, 190	Pratt, Philip W., Abington, Mass. Buffer-stem.	Nov. 23, 1875	877	274	8	872
	Pratt, Read & Co. (See Pratt, Milon, assignor.)					
	Same..... same (Reissue.)					
	Same..... (See Wilder, McNeil & Tyler, assignors.)					
	Same..... (See Wilder, McNeil, Wilder & Tyler, assignors.)					
	Same..... (See Wilder, Salmon H., assignor.)					
	Pratt, Rufus N. (See Pratt, Francis A., assignor.)					
166, 808	Pratt, Seraiah M., assignor of one-half interest to H. C. Kellogg, Cherokee, Iowa. Sash-holder.	Aug. 17, 1875	606	188	8	302
162, 859	Pratt, T. Willis, Boston, Mass. Construction of vessels	May 4, 1875	114	37	7	762
164, 033	Same..... Mechanism for propelling boats	June 1, 1875	167	59	7	953
165, 504	Pratt, Warren E., Chesaning, Mich. Device for attaching hubs to axles	July 13, 1875	371	110	8	67
163, 693	Pratt, Wellington H., Prattsville, Mich. Farm-gate	May 25, 1875	926	295	7	899
162, 766	Pratt, William L., Saint Louis, Mo. Condenser and purifier of coal-gas	May 4, 1875	27	10	7	750
166, 223	Pratt, Zimri L., New York, N. Y. Candlestick	Aug. 3, 1875	35	12	8	204
158, 735	Prawl, Peterson, and Francis H. Wemple, Waverly, Ill. Wheel-plow	Jan. 12, 1875	353	120	7	74
161, 703	Pray, Frank C., New York, N. Y. Lard-cooler	Apr. 6, 1875	96	34	7	583
165, 366	Preater, James H., Brooklyn, assignor to Wright Gillies and Gilbert R. Scott, New York, N. Y., and James M. Gillies, Plainfield, N. J. Revolving sample-holder	July 6, 1875	202	61	8	36
	Preble, John Q., et al. (See Ball, James, assignor.) (Reissue.)					
161, 271	Prendergast, James T., Huntington, W. Va. Steam-brake	Mar. 23, 1875	961	313	7	505
164, 210	Prentice, Chalmer M. C., Monroeville, Ohio. Compensation pendulum	June 8, 1875	347	119	7	989
6, 210	Prentice, John, New York, N. Y., assignor, by mesne assignments, to William H. Terwilliger and John S. Lockwood. Cigar-mold. (Reissue.)	Jan. 5, 1875	193	66	7	36
158, 390	Prentice, Miles S., Jacob Behel, and William A. Talcott, Rockford, Ill. Card-file	Jan. 5, 1875	33	12	7	13
161, 635	Prentiss, Charles H., assignor of one-half interest to John P. Humphrey, Cleveland, Ohio. Vapor-burner.	Apr. 6, 1875	41	15	7	575
167, 471	Same..... same	Sept. 7, 1875	79	25	8	417
160, 951	Prentiss, E. Freeman, Philadelphia, Pa. Rectifying-still	Mar. 16, 1875	653	213	7	455
171, 318	Prentiss, William F., Northampton, Mass. Paving-block	Dec. 21, 1875	652	213	8	1052
162, 099	Presbrey, Charles H., assignor to Sterling School Furniture Company, Sterling, Ill. Hinge-joint for school-desks	Apr. 13, 1875	451	150	7	642
159, 214	Presbrey, Edward F., Providence, R. I. Bracelet	Jan. 26, 1875	843	276	7	162
	Presby, Lorin A., et al. (See Warren & Packard, assignors.)					
161, 352	Prescott, D. Clint, Marinette, Wis. Saw-mill	Mar. 30, 1875	1050	342	7	524
159, 609	Prescott, Edwin A., assignor to Prescott Pistol Company, Hatfield, Mass. Magazine fire-arm	Feb. 9, 1875	350	116	7	241
	Prescott Pistol Company. (See Prescott, Edwin A., assignor.)					
159, 965	Prescott, Samuel A., Sutton, assignor to self and John M. Barker, Worcester, Mass. Shade-support for lamps	Feb. 16, 1875	695	231	7	292
160, 229	Pressey, Jeremiah M., Salineville, Ohio. Vehicle-spring	Feb. 23, 1875	945	310	7	335
	Preston, E. B. (See Caswell, William A., assignor.)					
	Preston, Francis B., Fayette, Mo. Corn-planter. (Extension.)	Feb. 25, 1875			7	515
	Preston, Julius A. (See Martin & Preston)					
158, 737	Price, Adam N., Jamestown, N. Y. Hub for vehicle-wheels	Jan. 12, 1875	355	121	7	74
158, 736	Price, Benjamin F., assignor to self and A. A. Hill, Mount Sterling, Ill. Fruit-picker	Jan. 12, 1875	355	120	7	74
162, 308	Same..... Churn	Apr. 20, 1875	662	216	7	676
	Price, Benjamin K. (See McVeen & Price.)					
158, 519	Price, Daniel, Lockport, N. Y. Passenger-car	Jan. 5, 1875	148	50	7	30
	Price, David C. (See Shuey, William H., assignor.)					
	Price, Edward, jr. (See Anthony & Beadle, assignors.)					
159, 841	Price, Edward L., Newark, N. J. Compound implement	Feb. 16, 1875	580	193	7	277
169, 581	Price, John, Sunderland, England. Reverberatory furnace	Nov. 2, 1875	242	79	8	767
163, 407	Price, John J., assignor of one-half interest to Philo N. Tryon, San Francisco, Cal. Sash-balance	May 18, 1875	656	210	7	856
167, 932	Price, Joseph W., Bryan, Ohio. Harrow	Sept. 21, 1875	513	164	8	495
170, 395	Price, Thomas J., and Almon Hunt, Macomb, Ill. Cultivator	Nov. 23, 1875	1060	333	8	898
171, 044	Price, Thomas J., Macomb, Ill. Fruit-preserving jar	Dec. 14, 1875	364	121	8	1006
	Price, Virgil T. (See Dyer, Isaac T., assignor.)					
170, 110	Price, Warran W., Petitecodiac, Canada. Combined lantern and dinner-kettle	Nov. 16, 1875	778	246	8	852
164, 034	Price, William H., and Rudolph Hoover, Schellsburgh, Pa. Reciprocating churn	June 1, 1875	168	59, 60	7	954
8, 717	Price, William T., assignor to Harsha & Price, Circleville, Ohio. Monument. (Design.)	Oct. 11, 1875			8	600
163, 408	Prichard, Leonard, Sweet Valley, Pa. Die for forming horseshoe-calks	May 18, 1875	657	210	7	856
160, 711	Prickett, Hiram, Edenton, Ohio. Portable fence	Mar. 9, 1875	418	139	7	417
166, 809	Pride, Orlando S., assignor to self and John E. Woodruff, Yonkers, N. Y. Ironing-board	Aug. 17, 1875	607	188	8	302
166, 466	Prideaux, Thomas S., Blackheath, England. Apparatus for regulating the supply of air to furnaces	Mar. 2, 1875	186	65	7	375
	Priest, J. K., et al. (See Smith, Roswell T., assignor.) (Reissue.)					
162, 767	Prince, George S., Richmond, Va. Process for treating tobacco	May 4, 1875	28		7	751
165, 687	Prince, John A., Pittsburgh, Pa. Valve and gearing for steam-engines	July 20, 1875	553	168	8	109
164, 211	Prince, Peter A., Porter's Mills, Wis. Sheer-boom	June 8, 1875	348	119	7	929
165, 367	Prindle, Franklin B., and John T. Kennedy, Mount Carmel, Conn. Machine for threading wood-screws	July 6, 1875	202	61, 62	8	36
8, 034	Prindle, Gilbert H., Philadelphia, Pa. Boa. (Case B. Design.)	Jan. 26, 1875			7	133
8, 645	Same..... same (Design.)	Sept. 7, 1875			8	403
8, 646	Same..... Trimming (Design.)	Sept. 7, 1875			8	403
166, 141	Prindle, Lyman B., Bantam Falls, Conn. Thill-coupling clamp	July 27, 1875	1002	309	8	183
162, 496	Prior, Elhanan W., Cambridge, Vt. Stove-pipe drum	Apr. 27, 1875	869	278	7	710

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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158, 602	Priseman, Robert, Sacramento, Cal. Chimney-guard	Jan. 12, 1875	238	80	7	57
163, 865	Pritchard, John, Maysville, Mo. Document-envelope	July 20, 1875	726	221	8	132
	Pritchard, John F., et al. (See Welter, James K., assignor.)					
	Pritchard, Timothy. (See Barracough & Pritchard.)					
167, 118	Pritchett, William H., Anacostia, D. C. Joint-fastening for stair-rails	Aug. 24, 1875	916	286	8	354
	Procter, David C. (See Culter & Procter) (Design.)					
164, 393	Proctor, David R., assignor to Proctor Spark Arrester Company, Gloucester, Mass. Spark-arrester	June 15, 1875	537	177	7	1023
163, 249	Proctor, Josiah K., assignor of one-half interest to James Smith & Co., Philadelphia, Pa. Wool-washing machine	May 11, 1875	493	160	7	818
163, 250	Same. same	May 11, 1875	494	160	7	818
163, 251	Proctor, Josiah K., and Charles R. Lindsay; said Lindsay assignor to James Smith & Co., Philadelphia, Pa. Wool-washing machine	May 11, 1875	495	161	7	819
164, 593	Proctor, Josiah K., assignor of one-half interest to James Smith & Co., Philadelphia, Pa. Cylinder for wool carding and combing machines	June 15, 1875	712	232	7	1046
166, 408	Same. Mechanism for operating doffer-combs	Aug. 3, 1875	210	63	8	228
	Proctor Spark Arrester Company. (See Proctor, David R., assignor.)					
	Proeger, Julius. (See Fulton & Proeger.)					
165, 119	Prosser, Treat T., Chicago, Ill. Relief-valve	June 29, 1875	1216	392	7	1128
169, 838	Same. Metallic rod and wire for use in pegging-machines, &c.	Nov. 9, 1875	522	163	8	809
169, 839	Same. Shoe peg or nail	Nov. 9, 1875	523	163	8	809
165, 613	Prosser, Treat T., assignor, by mesne assignments, to self and Oscar L. Noble, Chicago, Ill., and Allen C. Calkins and Winslow Bushnell. Machine for pegging boots and shoes	July 13, 1875	468	143	8	82
165, 650	Same. Pegging-machine	July 13, 1875	507	155	8	87
169, 840	Prosser, Treat T., assignor to self, O. L. Noble, Winslow Bushnell, and Allen C. Calkins, Chicago, Ill. Machine for indenting the surface of wire	Nov. 9, 1875	523	163	8	809
	Proudfoot, Albert. (See Heath, George, assignor.)					
159, 966	Proudfoot, Frederick, Toronto, Canada. Heating-drum	Feb. 16, 1875	696	231	7	292
168, 105	Prout, Horace N., Westfield, Mass. Hoeing-machine	Sept. 28, 1875	700	221	8	528
164, 594	Prouty, Augustus B., Worcester, Mass. Work-holding device for metal-planers	June 15, 1875	713	232	7	1046
164, 934	Prouty, Augustus B., Loring Coes, and George C. Taft, Worcester, Mass.; said Coes and Taft assignors to said Prouty. Planer-chuck	June 29, 1875	1060	342	7	1107
164, 212	Prouty, George W., Boston, Mass. Treadle-mechanism for printing-presses and other purposes	June 8, 1875	349	{ 119 } 120	{ 7 }	989
162, 686	Prouty, Henry A., Worthville, assignor, by mesne assignments, to John W. and Isaac W. Britton, New York, N. Y. Band-comb	Apr. 27, 1875	1039	331	7	731
167, 933	Prouty, Lyman C., Lowell, Mass. Draw-iron for street-car poles	Sept. 21, 1875	514	164	8	495
	Providence Gas-Burner Company. (See Mooney, George, assignor.)					
171, 319	Provost, Norman, Stamford, Conn. Vehicle-spring	Dec. 21, 1875	652	214	8	1052
6, 481	Prnett, William, Kokomo, Ind., assignor to Tobias L. Varns and Andrew F. Dayhuff. Rotary pressure-blower	June 8, 1875	498	164	7	1008
	(Reissue.)					
171, 320	Pruner, David I., McVeytown, Pa. Horseshoe-machine	Dec. 21, 1875	653	{ 214 } 215	{ 8 }	1052
6, 421	Prusha, William F., and Elisha L. Wales, Marlborough, Mass., assignors, by mesne assignments, to William B. Rice, trustee. Boot and shoe	May 4, 1875	253	82	7	780
169, 841	Prützmann, Daniel, Canton, Ohio. Fruit-box	Nov. 9, 1875	525	164	8	810
167, 934	Pruyn, Robert L., Baton Rouge, La. Shutter-fastener	Sept. 21, 1875	515	164	8	495
167, 935	Pruyn, Robert L., assignor of one-half interest to Samuel M. Hart, Baton Rouge, La. Sash-fastener	Sept. 21, 1875	516	165	8	496
169, 035	Prybil, Paul, New York, N. Y. Band sawing-machine	Oct. 19, 1875	688	227	8	677
167, 688	Puffer, Alvin D., Boston, Mass. Making soda-water fountains	Sept. 14, 1875	283	90	8	453
168, 049	Pugh, John H., Baltimore, Md. Gas apparatus	Sept. 21, 1875	624	200	8	511
	Puller, Thomas. (See Hurd, Lorenzo D., assignor.)					
170, 965	Pulliam, Benjamin M., assignor of part interest to Charles T. Carpenter and James D. Pulliam, Tolono, Ill. Grain-meter	Dec. 14, 1875	298	99	8	997
165, 866	Pulliam, Eugene P., Palmyra, Mo. Gang-plow	July 20, 1875	727	221	8	132
	Pulliam, James D., et al. (See Pulliam, Benjamin M., assignor.)					
	Pullman, George M. (See Field & Pullman) (Reissue.)					
	Same. (See Wheeler, Eli, assignor.) (Reissue.)					
170, 111	Purcell, Charles W. and Samuel, Lundy's Lane, Pa. Bed-bottom	Nov. 16, 1875	778	247	8	852
	Purcell, Samuel. (See Purcell, Charles W. and Samuel.)					
161, 898	Purcell, William J., Rochester, N. Y. Damping-box for copying-presses	Apr. 13, 1875	284	95	7	621
171, 421	Purdy, Zachariah V., Washington, D. C., assignor of one-half interest to James O'Hara, Pittsburgh, Pa. Horseshoe	Dec. 21, 1875	745	245	8	1065
	Pursell, Thomas V. (See Blanc, Frederic M., assignor.)					
	Purves & Savery. (See Savery, Charles C., assignor.)					
6, 537	Pusey, Jones & Co., et al. (See Anderson, Charles, assignor.)					
	Putnam, Albert M., assignor, by mesne assignments, to self and Charles H. Carter, Antrim, and Granville P. Felt, Peterborough, N. H. Pump	July 6, 1875	270	79	8	44
	Putnam, Edwin, et al. (See Adams, George B., assignor.)					
161, 839	Putnam, George D., Salem, Mass. Grate-bar	Apr. 13, 1875	285	96	7	621
159, 117	Putnam, George F., Fonda, N. Y. Fifth-wheel for vehicles	Jan. 26, 1875	754	248	7	150
164, 692	Putnam, H. Marshall, and William Esty, Fitchburgh, Mass. Grinding-wheel	June 22, 1875	814	266	7	1068
	Putnam, John E., et al. (See Hale, Edward, jr., assignor.)					
170, 591	Putnam, Salmon W., Fitchburgh, Mass. Metal-drilling machine	Nov. 30, 1875	1261	396	8	933
161, 154	Putnam, Silas S., Boston, Mass. Machine for forging nails	Mar. 23, 1875	848	{ 276 } 277	{ 7 }	490
162, 309	Same. Gas-retort	Apr. 20, 1875	663	{ 216 } 217	{ 7 }	676
	Putnam, Simeon L. (See Bevelander, Benjamin, assignor.)					
	Putnam, W. E., et al. (See Fitzgerald, Walter, assignor.)					
163, 525	Putnam, William E., assignor of one-half interest to Henry S. Jenkins, Boston, Mass. Gaiter boot and shoe	May 18, 1875	770	244	7	871
163, 945	Pyle, Isaac N., Decatur, Ind. Whiffletree hook and clip	June 1, 1875	90	30	7	943
8, 382	Quackenbos, John M., jr., New York, N. Y. Writing-tablet	June 8, 1875			7	968
165, 425	Quackenbush, Henry M., Herkimer, N. Y. Metal-turning lathe	July 13, 1875	293	87	8	56
159, 354	Same. Air-gun dart	Feb. 2, 1875	103	36	7	198
160, 467	Quackenbush, William P., assignor of one-half interest to Henry M. Latimer, Holley, N. Y. Cheese-safe	Mar. 2, 1875	188	65	7	375
	Quaintance, Eli, et al. (See Perry, William V., assignor.)					
170, 897	Quarton, William B., Fremont, Iowa. Feeding-belt and partition for corn-shellors	Dec. 7, 1875	212	74	8	979
	Quast, Ernest. (See Brocksmitth, Herman, assignor.)					
166, 890	Querner, Augustus, and Thomas Burke, Cincinnati, Ohio. Skylight	Aug. 17, 1875	684	212	8	313
158, 978	Quick, Miles W., Titusville, Pa. Coating for oil-barrels	Jan. 19, 1875	602		7	122

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
169, 582	Quick, Thomas J., Warsaw, Ind. Thill-coupling	Nov. 2, 1875	243	80	8	767
160, 280	Quick, William B., Saint Louis, Mo. Sully-plow	Mar. 2, 1875	21	9	7	352
171, 422	Quigley, John, Saint Joseph, Mo. Street-railway track	Dec. 21, 1875	746	245	8	1065
8, 558	Quimby, Julius F., assignor to Swett, Quimby & Perry, Troy, N. Y. Stove-door knob	Aug. 3, 1875	.....	.....	8	194
170, 112	Quimby, Byron C., Plymouth, Mass. Machine for making rivets	Nov. 16, 1875	779	247	8	852
	Quincy, George H., <i>et al.</i> (See Dewey, John J., assignor.)					
	Same..... (See Freeman, Josiah G., assignor.)					
	Quinn, John E. (See Bowyer, John A., assignor.)					
160, 952	Quinn, John J., assignor of one-half interest to Edward T. Jameson, Pittsburgh, Pa. Machine for tapping mains	Mar. 16, 1875	654	213	7	456
159, 770	Quinn, William, Philadelphia, Pa. Velocipede	Feb. 16, 1875	516	172	7	269
165, 867	Quinn, William T., assignor of two-thirds interest to Will and John Hague, Paterson, N. J. Fishing and similar floats	July 20, 1875	728	222	8	132
	Quirin, Peter P. (See Holmes & Quirin.)					
6, 557	Quirolo, Antonio, Hoboken, N. J. Stereoscope	July 27, 1875	1041	321	8	188
160, 712	Quitman, Louis, Norwalk, Conn. Sash-holder	Mar. 9, 1875	420	140	7	417
169, 583	Qvist, Peter M., assignor of two-thirds interest to Hermann Trott and Casper Klein, Saint Paul, Minn. Hydrocarbon furnace	Nov. 2, 1875	244	80	8	767
	Rabbeth, Francis J. (See Booth, John, assignor.)					
6, 456	Rabbeth, Francis J., Pawtucket, R. I., and John E. Atwood, Willimantic, Conn., assignors, by mesne assignments, to Francis J. Rabbeth and Fales, Jenks & Sons. Spindle for spinning-machines	May 25, 1875	1066	336	7	918
169, 919	Raber, Emanuel, Canton, Ohio. Horse hay-fork	Nov. 16, 1875	609	189	8	829
168, 781	Racine, Aime, Fort Wayne, Ind. Combined pad and collar fastener	Oct. 11, 1875	444	145	8	635
	Radbruck, Gustav J. M. (See Schmidt & Radbruck.)					
159, 215	Radcliffe, Robert D., Albany, N. Y. Metallic telegraph-pole	Jan. 26, 1875	844	276	7	162
161, 547	Raddin, John, Lynn, Mass. Railway-rail chair	Mar. 30, 1875	1240	399	7	549
166, 937	Same..... Car-brake	Aug. 24, 1875	741	229	8	330
	Rademacher, Mathias. (See Bate, Wallace H., assignor.)					
6, 380	Rader, Stephen D., Williamsport, assignor, by mesne assignments, to Edwin V. Wingard, Philadelphia, Pa. Brick-kiln	Apr. 13, 1875	499	164	7	648
160, 841	Radey, John H., Philadelphia, Pa. Process of finishing leather	Mar. 16, 1875	559	.....	7	443
169, 920	Radley, John P., Albany, N. Y. Bale-tie	Nov. 16, 1875	610	189	8	829
160, 031	Radston, Jacob, San Francisco, Cal. Gas-meter	Feb. 23, 1875	777	256	7	310
168, 669	Raether, William, Brooklyn, N. Y. Padlock	Oct. 11, 1875	346	113	8	622
	Rafter, Augustin, <i>et al.</i> (See Kimble, Smith W., assignor.)					
161, 439	Ragan, Cornelius, Waterloo, Iowa. Railway pinch-bar	Mar. 30, 1875	1134	366	7	535
170, 015	Rager, Christian B., North Manchester, Ind. Nut-lock	Nov. 16, 1875	688	216	8	840
159, 039	Ragot, Henry, Pittsburgh, Pa. Metallurgic heating-furnace	Jan. 26, 1875	685	{ 225 } 226	7	140
159, 040	Same..... Puddling-furnace	Jan. 26, 1875	686	226	7	140
163, 252	Rahilly, Maurice J., Beaver Falls, Pa. Device for swaging and setting saw-teeth	May 11, 1875	496	161	7	819
	Railway Register Manufacturing Company. (See Hoffman, Austin D., assignor.)					
163, 105	Rakestraw, John A., Altoona, Pa. Plate-lifter and toaster	May 11, 1875	361	117	7	802
162, 310	Rakestraw, Roland, Wyoming, Ill. Vehicle-seat	Apr. 20, 1875	665	217	7	676
	Ralesback, L. D., <i>et al.</i> (See Bean, John, assignor.)					
6, 457	Ralph, Alexander, Philadelphia, Pa. Packing-machine	May 25, 1875	1068	337	7	918
169, 290	Ralph, James G., Aurora, Ill. Connecting spirit-levels and straight-edges	Oct. 26, 1875	943	306	8	720
166, 719	Ralph, Matthias, Ursa, Ill. Feed-rack	Aug. 17, 1875	528	161	8	290
160, 230	Ralston, David W., Rockford, Ill. Plow-carriage	Feb. 23, 1875	945	311	7	335
166, 891	Ralston, John C., Indianapolis, Ind. Soap-slabbing machine	Aug. 17, 1875	685	212	8	313
167, 936	Same..... Attachment to soap-cutting machines	Sept. 21, 1875	516	165	8	496
6, 461	Ralya, John J., Cleveland, Ohio. Stave-jointer	May 25, 1875	1073	338	7	918
6, 462	Same..... Plane-iron	May 25, 1875	1074	338	7	918
165, 025	Ramage, Charles E., assignor to self and Wilhelm Heyde, Sherman, Tex. Car-coupling	June 29, 1875	1133	366	7	1117
	Rambouillet, Arsene. (See Chavasse, Auguste, assignor.)					
161, 822	Ramey, Sanford, Pataskala, Ohio. Cannon-pin for watches	Apr. 6, 1875	206	69	7	598
	Ramsay, Charles S., <i>et al.</i> (See McKervey, Hugh F., assignor.)					
159, 041	Ramsdell, Daniel P., assignor of one-half interest to Thacher B. Carpenter, New Haven, Conn. Piano-lid prop	Jan. 26, 1875	687	226	7	140
	Ramsden, John B. F. (See Duggan, John A., assignor.)					
169, 842	Ramsden, John C., Lightcliffe, England. Hydrocarbon furnace	Nov. 9, 1875	525	164	8	810
167, 565	Ramsden, Thomas, Philadelphia, Pa. Sofa	Sept. 7, 1875	163	51	8	429
163, 526	Ramsey, Croghan A., Schulenburg, Tex. Cotton-sprinkler	May 18, 1875	771	244	7	871
	Ramsey, John. (See Thomson & Ramsey.)					
169, 291	Ramsey, Robert H., Pottsville, Pa. Portable and stationary gas-apparatus	Oct. 26, 1875	943	306	8	720
165, 614	Ramus, Charles E., Spottsylvania C. H., Va., assignor of one-half interest to George Cowie, Washington, D. C. Paper-clip	July 13, 1875	471	144	8	82
	Rancier, Edwin J. (See Bennett & Rancier.)					
160, 468	Rand, Alonzo C., Minneapolis, Minn. Carbureting gas-machine	Mar. 2, 1875	189	65	7	375
166, 409	Same..... Process and apparatus for manufacturing gas	Aug. 3, 1875	211	64	8	228
169, 843	Same..... Carbureting-machine	Nov. 9, 1875	526	{ 164 } 165	8	810
160, 349	Rand, Charles E., and John T. Dupont, New York, N. Y. Registering-machine	Mar. 2, 1875	81	29	7	360
159, 356	Rand, Charles R., San Francisco, Cal. Combined fluting and sad iron	Feb. 2, 1875	105	36	7	198
	Rand, McSherry & Co. (See Martin, John F., assignor.)					
160, 231	Randal, Silas B., Cincinnati, Ohio. Machine for creasing and finishing leather straps	Feb. 23, 1875	947	311	7	335
	Randall, Amelia A. (See Randall, Silas G., assignor.)					
	Randall, C. E., <i>et al.</i> (See Fairbairn, William U., assignor.)					
	Randall, Charles A. (See Foote & Randall.)					
8, 689	Randall, Frank H., assignor to Richard H. and Benjamin C. Reeve, Camden, N. J. Floor oil cloth	Oct. 5, 1875	.....	.....	8	561
158, 738	Randall, James V., Newtown, Pa. Seat for extension-carriages	Jan. 12, 1875	356	121	7	74
169, 118	Randall, John H., and Dexter F. Newton, Clyde, Ohio. Wire stove-bracket	Oct. 26, 1875	791	256	8	699
159, 216	Randall, Silas G., assignor to Amelia A. Randall, Providence, R. I. Machine for polishing wood	Jan. 26, 1875	845	276	7	162
161, 060	Randall, Silas G., Greene, N. Y. Disk-harrow cultivator	Mar. 23, 1875	754	249	7	479
163, 527	Same..... Disk-harrow	May 18, 1875	772	244	7	871
6, 414	Randall, William, Salem, Mass., assignor of one-half interest to Josiah M. Crocker. Injector	May 4, 1875	247	79	7	780
170, 299	Randall, William, Salem, Mass. Injector for steam-boilers	Nov. 23, 1875	973	304	8	885
166, 810	Randel, William, Troy, N. Y. Button-hole attachment for sewing-machines	Aug. 17, 1875	607	188	8	302
167, 689	Randell, Aschel J., Belvidere Seminary, N. J. Steaming-table	Sept. 14, 1875	284	90	8	453

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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	Randolph, Edward F. (See Taylor, Jacob, assignor.)					
169, 658	Randolph, Ira F., Indianapolis, Ind. Apparatus for lighting railway-cars.	Nov. 9, 1875	336	106	8	787
166, 030	Randolph, John H. jr., Bayou Goula, La. Revolving hay-rake.	July 27, 1875	892	276	8	168
6, 717	Randolph, Simon P., Tehama, Cal. Cutter-head (Reissue).	Oct. 26, 1875	985	319	8	726
165, 868	Same. same	July 20, 1875	728	222	8	133
153, 118	Randolph, Theodore F., Morristown, N. J. Ditching-machine.	Jan. 26, 1875	754	248	7	150
158, 979	Randon, François, New Orleans, La. Apparatus for treating cane-juice.	Jan. 19, 1875	603	200	7	122
161, 353	Same. Evaporating apparatus.	Mar. 30, 1875	1051	342	7	525
169, 036	Rankin, Andrew, Philadelphia, Pa. Door-knob.	Oct. 19, 1875	688	227	8	677
167, 195	Rankin, Andrew N., Nyack, N. Y. Protecting water-pipes from freezing.	Aug. 31, 1875	1009	314	8	374
169, 659	Rankin, Andrew N., New York, N. Y. Cold-packed pipe-joint.	Nov. 9, 1875	337	107	8	787
167, 020	Rankin, Charles S., College Hill, Ohio. Fire-place.	Aug. 24, 1875	823	256	8	341
170, 966	Rankin, Edwin D., assignor to self and John J. Hillman, Cambridge, Mass. Sail-bend- ing hook.	Dec. 14, 1875	300	99	8	998
	Rankin, George R. (See Cass & Rankin.)					
168, 286	Rankin, Hugh P., Allegheny, Pa. Chopping-block for meat-cutters.	Sept. 28, 1875	864	276	8	551
171, 631	Same. Sausage-machine.	Dec. 28, 1875	975	316	8	1104
171, 168	Rankin, Thomas L., Emporia, Kans. Ice-machine.	Dec. 14, 1875	488	161	8	1022
171, 530	Ransom, David L., and Norman R. Pengh, Buffalo, N. Y. Business-cabinet.	Dec. 28, 1875	866	283	8	1089
	Ransom, John R. B. (See Palmer, Silas D., assignor.)					
	Ransom, Samuel H., trustee. (See Smith, Elihu, assignor.)					
161, 155	Ransom, William, Noah, Ind. Millers' paint-staff.	Mar. 23, 1875	850	277	7	490
	Ransome, Samuel H., trustee. (See Smith, Elihu, assignor.) (Reissue.)					
163, 409	Raoul, Gaston T., Tangipahoa, La. Car-axle box.	May 18, 1875	658	210	7	856
167, 271	Raphael, George, New York, assignor to Thomas C. Clark, Brooklyn, N. Y. Camera obscura.	Aug. 31, 1875	1072	334	8	383
168, 413	Rapp, Christian F., Cincinnati, Ohio. Hydrant.	Oct. 5, 1875	85	29	8	577
169, 476	Same. Fire-plug.	Nov. 2, 1875	138	45	8	754
	Raslu, R. W. L. (See Snyder, Benjamin B. jr., assignor.)					
167, 937	Rasines, Antonio, and Thomas E. D. Power, New York, N. Y. Button-hook.	Sept. 21, 1875	517	165	8	496
160, 713	Rath, Emil, Hoboken, N. J. Perfume-fountain.	Mar. 9, 1875	420	140	7	417
170, 592	Same. same	Nov. 30, 1875	1262	397	8	933
	Rathbun, Julius G., et al. (See Kenny, Francis, assignor.)					
158, 520	Rathbun, Lewis V., East Pembroke, N. Y. Flour-bolt.	Jan. 5, 1875	149	50	7	30
166, 892	Rathbun, Mary F., Oswego, N. Y. Lamp-stove.	Aug. 17, 1875	686	212	8	313
168, 670	Ratliff, Joseph C., and James W. Towle, Richmond, Ind. Harvester-dropper.	Oct. 11, 1875	347	113	8	632
168, 183	Rauch, Charles, Cleveland, Ohio. Ice-wagon.	Sept. 26, 1875	773	245	8	539
166, 554	Rauert, Charles H., Buffalo, N. Y. Vent-faucet.	Aug. 10, 1875	356	110	8	257
168, 922	Raveand, Louis M. E., and Vincent Marty, New Orleans, La. Heating-stove.	Oct. 19, 1875	586	193	8	663
161, 636	Rawbone, William G., Toronto, Canada. Cartridge-loading implement.	Apr. 6, 1875	42	16	7	575
168, 414	Rawley, Edward, North Union, Me. Means for reefing and furling sails.	Oct. 5, 1875	86	30	8	577
159, 355	Rawlings, John H., San Francisco, and Lambert Irelan, Watsonville, Cal. Apparatus for generating gas.	Feb. 2, 1875	104	36	7	198
163, 106	Rawson, Chandler B., Worcester, Mass. Spring bed-bottom.	May 11, 1875	362	118	7	602
165, 688	Rawson, Charles B., Worcester, Mass. Combined chair and step-ladder.	July 20, 1875	554	169	8	109
	Rawson, David, deceased. (See Whitcomb & Rawson.)					
166, 224	Rawson, David W., Croydon, N. H. Clothes-pounder.	Aug. 3, 1875	36	12	8	204
170, 898	Rawson, George W., Belleville, Ill., assignor of two-thirds interest to Jabez J. Piggott, Saint Louis, Mo., and Nathan T. Baker, Belleville, Ill. Meat-cutter.	Dec. 7, 1875	213	74	8	979
	Rawson, Mary J., administratrix. (See Whitcomb & Rawson.)					
167, 119	Ray, Benjamin F., Baltimore, Md. Hand-car.	Aug. 24, 1875	917	286	8	354
	Ray, Frederick A., et al. (See Johnson, William H., assignor.)					
169, 844	Ray, George P. W., College Point, N. Y. Track-clearer.	Nov. 9, 1875	528	165	8	810
8, 036	Ray, James S., East Haddam, Conn. Thumb-screw head. (Design).	Feb. 2, 1875			7	181
162, 949	Same. Coffin-handle.	May 4, 1875	198	64	7	773
168, 526	Ray, Moses, Valley Grove, W. Va. Harvester-rake.	Oct. 5, 1875	187	61	8	591
167, 938	Ray, Robert, Carrollton, Miss. Clip for fellies and tires.	Sept. 21, 1875	518	165	8	496
8, 391	Ray, Thomas S., and Charles T. Ham, Buffalo, N. Y. Locomotive head-light. (Design).	June 15, 1875			7	1013
165, 426	Same. Locomotive head-light attachment.	July 13, 1875	294	87	8	56
	Rayburn, James, et al. (See Welter, James K., assignor.)					
170, 113	Rayment, William S., Tekonsha, Mich. Thill-coupling.	Nov. 16, 1875	780	248	8	852
160, 060	Raymond, Albert and George, assignors of one-half interest to Milo J. Althouse, Waupun, Wis. Windmill.	Feb. 23, 1875	805	264	7	314
160, 953	Same. same	Mar. 16, 1875	655	214	7	456
169, 477	Raymond, Fitch, Cleveland, Ohio. Railway-signal.	Nov. 2, 1875	139	45, 46	8	754
	Raymond, George. (See Raymond, Albert and George.)					
6, 544	Raymond, John V., West Hoboken, N. J., assignor of one-half interest to Adolph Bayer. Registering-thermometer.	July 13, 1875	519	158	8	88
167, 566	Raymond, Seymour, and Joseph Campbell, Middletown, Pa. Heating-stove.	Sept. 7, 1875	163	52	8	429
167, 196	Raymond, Silas H., Grand Rapids, Mich. Shaft tip.	Aug. 31, 1875	1010	314	8	374
	Raynor & Co., Samuel. (See Ball, James, assignor.) (Reissue.)					
	Raynor & Co., Samuel, et al. (See Ball, James, assignor.) (Reissue.)					
171, 423	Raynor, William C., Milwaukee, Wis. Horse-rake.	Dec. 21, 1875	746	245	8	1065
168, 415	Rea, Amor, Bart Township, Pa. Pitman-connection for harvesters.	Oct. 5, 1875	86	30	8	577
	Rea, Thomas F. (See Byrn, Edward W., assignor.)					
166, 142	Read, Calvin D. and Ellis D., Ayer, assignors of one-third interest to James Goodrich, Fitchburgh, Mass. Corn-sheller.	July 27, 1875	1003	309	8	183
171, 424	Read, Charles A., Bridgeport, Conn. Trap for steam-pipes.	Dec. 21, 1875	747	246	8	1065
	Read, Ellis D. (See Read, Calvin D. and Ellis D.)					
160, 061	Read, George G., Russellville, Ky. Harvester-reel.	Feb. 23, 1875	806	264	7	314
	Read, James H. (See Case & Read.)					
8, 790	Read, Josiah M., Everett, Mass. Handle for stove-cover lifters. (Design).	Nov. 9, 1875			8	777
164, 480	Read, Perry, and John H. Allen, Hinesburgh, Vt. Milk-cooler.	June 15, 1875	618	200	7	1033
165, 869	Read, William, Saint Cloud, Minn. Steam-engine.	July 20, 1875	729	222	8	133
158, 521	Reagan, William J., assignor to Royer's Ford Iron Foundry, Royer's Ford, Pa. Uniting handles to sad-irons.	Jan. 5, 1875	150	50	7	30
162, 687	Reagan, William J., Pottstown, assignor to Royer's Ford Iron Foundry, Philadelphia, Pa. Grinding-machine.	Apr. 27, 1875	1039	332	7	731
	Reap, M. F. (See Biglin, Michael, assignor.)					
6, 806	Reber, James L., Chicago, Ill., assignor, by mesne assignments, to Edwin B. Munson. Paper box.	Dec. 14, 1875	547	179	8	1030
162, 418	Rebstock, Christian, Bridgeport, Conn., assignor to David W. Sherwood, Charles R. Brothwell, and Christian Rebstock. Door-knob.	Apr. 20, 1875	772	251	7	689
	Reckendorfer, Joseph. (See Barberdt, Emile, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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164, 659	Reckendorfer, Joseph. (<i>See</i> Benson, Henry C., assignor.)					
168, 106	Reckhow, Isaac, and William H. Stafford, Brooklyn, N. Y. Process of preparing pickles	June 22, 1875	784		7	1064
8, 062	Reddy, James M., Milwaukee, Wis. School-room heater	Sept. 28, 1875	701	221	8	528
8, 218	Redfern, Alfred, assignor to Samson McDowell, Philadelphia, Pa. Carpet. (Design)	Feb. 16, 1875	.....	.....	7	261
8, 219	Same. (Design)	Mar. 23, 1875	.....	.....	7	466
161, 274	Redgrave, Alphonzo W., assignor of one-half interest to Frederick R. Wilson, Chicago, Ill. Window-awning	Mar. 23, 1875	965	315	7	505
165, 615	Redheffer, William, assignor of two-thirds interest to Washington H. Chick, Saint Louis, and Joseph S. Chick, Kansas City, Mo. Ice-cream freezer	July 13, 1875	472	144	8	82
166, 143	Same. Egg-beater	July 27, 1875	1005	310	8	183
166, 893	Same. Churn	Aug. 17, 1875	687	213	8	313
169, 478	Redmayne, Thomas, Sheffield, England, assignor to William Redmayne. School-desk	Nov. 2, 1875	141	46	8	754
	Redmayne, William. (<i>See</i> Redmayne, Thomas, assignor.)					
	Redmond, Charles C. (<i>See</i> Rhodes & Redmond.)					
167, 567	Redmond, Charles C., and Henry H. Rhodes, San José, Cal., assignors of one-half interest to Alexander H. Evans, Washington, D. C. Gate	Sept. 7, 1875	164	52	8	429
167, 787	Redstone, Albert E., assignor to self and Daniel Breed, Washington, D. C. Printing-press	Sept. 14, 1875	376	120	8	466
163, 253	Redway, Albert J., Cincinnati, Ohio. Stove-leg fastening	May 11, 1875	497	161	7	819
169, 037	Redwood, Thomas B., Finchley, England. Manufacture of gas for burning and lighting	Oct. 19, 1875	689	.....	8	677
164, 035	Reece, John, assignor to Ozro Morrill, Stanstead, Canada. Thread-tension device for sewing-machines	June 1, 1875	169	60	7	954
164, 481	Reece, Virginus J., Greenfield, Mass. Screw-cutting die	June 15, 1875	619	200	7	1033
167, 472	Same. Die-stock	Sept. 7, 1875	79	25	8	417
170, 768	Same. Screw-cutting die	Dec. 7, 1875	105	33	8	964
	Reed & Barton. (<i>See</i> Parkin, William, assignor.) (Design.)					
161, 637	Reed, Andrew J., Pleasant Grove, Ind. Hay-slide	Apr. 6, 1875	42	16	7	575
156, 633	Reed, Charles D., Polo, Ill. Corn-harvester	Aug. 10, 1875	428	{ 132 133 188 189 }	{ 8 7 }	{ 268 848 }
163, 329	Reed, Clarence G., Cambridge, Mass. Scaffold	May 18, 1875	589		7	890
163, 608	Reed, Cullin W., Chagrin Falls, Ohio. Advertising device	May 25, 1875	860	271	7	890
	Reed, Eunice S., administratrix. (<i>See</i> Keith & Reed.)					
	Reed, George E. (<i>See</i> Parsons, Thomas D., assignor.)					
166, 298	Reed, George E., Brooklyn, N. Y. Bottle-stopper	Aug. 3, 1875	104	32	8	214
168, 527	Reed, George P., Melrose, Mass. Watch-key	Oct. 5, 1875	188	62	8	591
158, 438	Reed, Harvey, Atlanta, Ga. Tanning apparatus	Jan. 5, 1875	72	26	7	19
	Reed, J. Lee, et al. (<i>See</i> Sweet, Daniel F., assignor.)					
171, 425	Reed, John C., Millvale, assignor of one-half interest to William Yagle and Andrew Johnston, Pittsburgh, Pa. Covering for steam boilers and pipes	Dec. 21, 1875	748	246	8	1065
161, 272	Reed, John V., New York, N. Y. Fire-hose	Mar. 23, 1875	962	314	7	505
161, 273	Same. same	Mar. 23, 1875	963	314	7	505
166, 410	Reed, Joseph, Jeffersonville, Ind. Feed-guide for printing-presses	Aug. 3, 1875	213	64	8	229
168, 671	Reed, Joseph W., Kalamazoo, Mich. Lubricator	Oct. 11, 1875	348	113	8	622
168, 672	Reed, Samuel A., Washington, D. C. Flooring-boards	Oct. 11, 1875	348	114	8	622
	Reed, Samuel G. (<i>See</i> Hanks, William R., assignor.)					
158, 522	Reed, Samuel G., Wellesley, Mass. Tire-heating apparatus	Jan. 5, 1875	150	51	7	30
164, 213	Same. Gas-burner for removing paint	June 8, 1875	350	120	7	989
	Reed, Timothy K., deceased. (<i>See</i> Keith & Reed.)					
165, 948	Reed, Walter G., Colusa, Cal. Rotary harrow	July 27, 1875	818	251	8	157
163, 528	Reed, William H., assignor of part interest to Warren A. Wells, Henry C. Hayt, Daniel J. Small, Henry Jones, and Lyman P. Converse, Chicago, Ill. Gas-carbureter	May 18, 1875	772	245	7	871
165, 254	Reed, William H., assignor to self, Warren A. Wells, Henry C. Hayt, Daniel J. Small, Henry Jones, and Lyman P. Converse, Chicago, Ill. Air-blower for carbureters	July 6, 1875	102	31	8	23
166, 634	Reeder, Clinton V. B., San José, Cal. Bed-bottom	Aug. 10, 1875	430	133	8	268
160, 032	Reeder, Daniel K., Renovo, Pa. Railway-rail joint	Feb. 23, 1875	778	257	7	311
165, 177	Reeder, Thomas, and Albert Fetterhoff, Oskaloosa, Iowa. Snow-plow	July 6, 1875	35	10	8	13
169, 584	Reeder, William S., assignor to Kingsland, Ferguson & Co., Saint Louis, Mo. Cotton-gin	Nov. 2, 1875	245	80	8	767
164, 693	Reeds, John A., Lawrence, Kans. Spring bed-bottom	June 22, 1875	814	266	7	1068
160, 469	Reedy, Henry J., Cincinnati, Ohio. Elevator	Mar. 2, 1875	190	65, 66	7	376
	Reel, George W. (<i>See</i> Steel & Reel.)					
162, 688	Rees, Craddock, and Thomas Johns, Ironton, Ohio. Heating-furnace	Apr. 27, 1875	1040	332	7	731
170, 396	Rees, Edward H., Mansfield, assignor to J. A. Fay & Co., Cincinnati, Ohio. Tenoning-machine	Nov. 23, 1875	1061	{ 333 334 }	{ 8 8 }	{ 898 915 }
170, 450	Rees, Norman I., New York, N. Y. Hat-ventilator	Nov. 30, 1875	1125	354	8	915
	Reese, Adam R. (<i>See</i> Squire, John J., assignor.) (Reissue.)					
163, 254	Reese, Henry, Baltimore, Md. Railway-tie	May 11, 1875	498	162	7	819
159, 448	Reese, Jacob, Pittsburgh, Pa. Machine for cutting off bars, tubes, cylinders, &c	Feb. 2, 1875	187	63	7	211
159, 449	Reese, John L., Galveston, Tex. Bale-tie	Feb. 2, 1875	188	63	7	211
6, 284	Reese, Philip L., Mount Sterling, Ky., assignor to Victor Sewing Machine Company, Middletown, Conn. Anti-rattling journal for balance-wheels of sewing-machines. (Reissue.)	Feb. 9, 1875	476	159	7	259
164, 595	Reese, Thomas, Saint Louis, Mo. Boiler-feeder	June 15, 1875	713	232	7	1046
	Reessing, Herman. (<i>See</i> Sellman, Reessing & Wolff.)					
	Reeve, Benjamin C., et al. (<i>See</i> Barrett, Joseph, assignor.) (Design.)					
	Same. (<i>See</i> Randall, Frank H., assignor.) (Design.)					
	Reeve, Richard H., et al. (<i>See</i> Barrett, Joseph, assignor.) (Design.)					
	Same. (<i>See</i> Randall, Frank H., assignor.) (Design.)					
164, 763	Reeves, George P., assignor to self and Charles Rumley, Helena, Mont. Piano-tuning-pin locks	June 22, 1875	876	286	7	1072
166, 031	Same. Shoe-fastener	July 27, 1875	893	276	8	168
	Reeves, William J. (<i>See</i> Miller & Reeves.)					
159, 450	Reford, Joseph W., assignor of one-half interest to James T. Waters, New York, N. Y. Rectifying and oxygenating apparatus	Feb. 2, 1875	189	64	7	211
159, 451	Reford, Joseph W., assignor of one-half interest to William Watt, jr., New York, N. Y. Purification of filtering and oxygenating substances while within the rectifying-cylinder	Feb. 2, 1875	190	64	7	211
171, 426	Reford, Joseph W., assignor to William Watt, New York, N. Y. Apparatus for distilling and rectifying liquors	Dec. 21, 1865	749	{ 246 247 }	{ 8 8 }	{ 1065 1065 }
6, 672	Rogan, Barnerd, deceased, assignor, by mesne assignments, to Benjamin Kuhns, Dayton, Ohio. Seed-drill	Oct. 5, 1875	214	70	8	594
165, 949	Regan, Michael, Canastota, N. Y. Mop-wringer	July 27, 1875	819	251	8	157
8, 649	Reger, Albert P., Philadelphia, Pa. Casting	Sept. 14, 1875	.....	.....	8	439
161, 156	Register, John E., Dover, Del., assignor of one-half interest to Dover Fruit and Vegetable Preserving Company Drier	Mar. 23, 1875	850	277	7	490

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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161, 823	Reh fuss, George, assignor to American Button-Hole, Overseaming, and Sewing Machine Company, Philadelphia, Pa. Journal for sewing-machine fly-wheel...	Apr. 6, 1875	207	69	7	598
164, 043	Same.....Sewing-machine cover.....	June 1, 1875	177	63	7	955
167, 197	Reh fuss, George, assignor to Samuel S. White, Philadelphia, Pa. Dental plugger.....	Aug. 31, 1875	1010	314	8	374
163, 255	Rehn, Isaac, Philadelphia, Pa. Gas-regulator.....	May 11, 1875	498	162	7	819
161, 277	Reich, Benjamin F. (See Spangler & Reich.)					
161, 275	Reichard, Edwin D., and Jeremiah R. Fisher, Reading, Pa. Folding cradle.....	Mar. 23, 1875	967	315	7	505
163, 330	Reichert, Louis P., Buffalo, N. Y. Bird-cage.....	Mar. 23, 1875	965	315	7	505
161, 276	Same.....same.....	May 18, 1875	590	189	7	848
161, 900	Reid, Alban H., Brandywine Manor, Pa. Butter-worker.....	Mar. 23, 1875	966	315	7	505
169, 585	Reid, James D., Saint John, Canada. Bridle-winker.....	Apr. 13, 1875	285	96	7	621
167, 021	Reid, John, New York, N. Y. Fire-blower.....	Nov. 2, 1875	245	80	8	767
170, 300	Reid, John M., Montreal, Canada. Mold for casting water-traps.....	Aug. 24, 1875	824	256	8	341
169, 038	Same.....Machine for bending metallic tubes.....	Nov. 23, 1875	974	305	8	885
170, 397	Reid, Peter W., assignor to McKee & Brothers, Pittsburgh, Pa. Mold for manufactur- ing bottles.....	Oct. 19, 1875	691	227	8	677
164, 660	Reid, Samuel, Chicago, Ill. Hose-pipe nozzle.....	Nov. 23, 1875	1062	334	8	898
8, 335	Reid, William. (See Philips & Reid) (Reissue.)					
160, 954	Reid, William L., Palmyra, N. Y., assignor to Watson B. Smith, Omaha, Nebr. Paper- cutting machine.....	June 22, 1875	784	257	7	1064
160, 954	Reid, W. Max, Amsterdam, N. Y. Ornament for burial-caskets..... (Design.)	May 18, 1875			7	837
165, 255	Reifsneider, Alfred D., et al. (See Hartzell, George, assignor)..... (Design.)					
166, 894	Reifsneider, John P., et al. (See Hartzell, George, assignor)..... (Design.)					
169, 039	Rielley, John O., Jersey City, N. J. Drill-chuck.....	Mar. 16, 1875	657	214	7	456
168, 416	Reilly, Hugh, Brooklyn, N. Y. Projectile for ordnance.....	July 6, 1875	103	31	8	23
168, 894	Reilly, John F., Washington, D. C. Warming-apparatus.....	Aug. 17, 1875	689	213	8	313
168, 184	Reilly, Patrick, Burlington, Iowa. Locomotive smoke-stack.....	Oct. 19, 1875	691	228	8	677
161, 824	Reily, Charles W., Cincinnati, Ohio. Ore-separator.....	Oct. 5, 1875	87	30	8	577
159, 708	Reily, Henry, Petrolia, and Pharez G. Waldo, Tidionte, Pa. Rotary engine.....	Sept. 28, 1875	774	245	8	539
8, 311	Reiman, Robert, Sullivan, Ill. Riding-saddle.....	Apr. 6, 1875	207	70	7	598
164, 101	Reimold, Christian J., and Nilton Stoddard, Saginaw, Mich. Tire-upsetter.....	Feb. 9, 1875	440	147	7	253
169, 119	Reinecke, Henry F., Jersey City Heights, N. J. Hat and fur box..... (Design.)	May 4, 1875			7	742
168, 287	Reinhard, John B., Louisville, Ky. Warm-air furnace.....	June 8, 1875	254	87	7	976
163, 410	Reinisch, Charles, Newark, N. J. Cigar mouth-piece.....	Oct. 26, 1875	791	256	8	699
164, 328	Reinisch, Jacob, et al. (See Mellinger, Christian K., assignor.)					
161, 825	Reisert, Anton, New York, N. Y. Machine for purifying cream of tartar.....	Sept. 28, 1875	864	276	8	551
160, 955	Reisinger, James P., Ashland, Ohio. Measuring-device for knitting-machines.....	May 18, 1875	659	210	7	856
162, 497	Reiz, Nickolaus, assignor of one-half interest to John D. Arras, Dayton, Ohio. Game- apparatus.....	June 8, 1875	461	153	7	1004
163, 410	Relph, Francis H., London, England. Cattle-support.....	Apr. 6, 1875	208	70	7	598
167, 022	Relyea, George, Belleville, Canada. Dental plate.....	Mar. 9, 1875	421	140	7	418
159, 217	Relyea, Jerome B., Hicksville, Ohio. Neck-yoke.....	Jan. 26, 1875	846	276	7	162
159, 357	Relyea, Jerome B., Hicksville, assignor to self and Lewis E. Brewster, Bryan, Ohio. Ve- hicle-top.....	Aug. 24, 1875	825	257	8	341
159, 278	Remer, Samuel W., Salem, Mass. Stock-car.....	Feb. 2, 1875	106	36, 37	7	199
161, 901	Remhof, Charles, Brooklyn, N. Y. Atomizer.....	Feb. 2, 1875	32	12	7	189
160, 955	Remington & Sons, E. (See Clough, Jefferson M., assignor.)					
163, 410	Remington, Horatio A., assignor to S. Colvin & Co., Anthony, R. I. Let-off mechanism for looms.....	Apr. 13, 1875	286	96	7	621
162, 497	Renaud, William H., et al. (See Arms, John L., assignor.)					
168, 923	Reniff, James R., Bloomington, Ill. Steam and air brake.....	Mar. 16, 1875	657	214	7	456
162, 497	Renk, Joseph E., Albany, N. Y. Canal-lock gate.....	July 6, 1875	36	10	8	13
163, 410	Renshaw, David, Hingham, Mass. Steam-generator.....	Apr. 27, 1875	870	278	7	710
164, 482	Renshaw, David, Cohasset, Mass. Steam-generator.....	Oct. 19, 1875	587	194	8	664
167, 690	Rentchler, Henry. (See Morgan, Elias M., assignor.)					
6, 439	Same.....(See Penn, Worden, P., assignor.) (Reissue.)					
162, 497	Renton, Charles, Meriden, Conn. Process for forming the ends of carriage-slat bows.....	Sept. 14, 1875	285	90	8	453
163, 410	Renwick, Edward S., Millburn, N. J. Grate..... (Reissue.)	May 18, 1875	813	256	7	876
159, 218	Renyon, Franklin P. (See Harrington, Jackson, assignor.)					
162, 497	Resor & Co., William. (See Truesdale, Charles, assignor.)					
164, 482	Restein Brothers. (See Restein, John, assignor.)					
162, 497	Restein, John, assignor to Restein Brothers, Philadelphia, Pa. Musical merchandise-box.....	Jan. 26, 1875	846	277	7	162
164, 482	Retterer, Jacob, Chicago, Ill. Reflector-lamp.....	Apr. 27, 1875	1041	332	7	731
163, 410	Reupke, Henry, assignor to self and Frederick W. Krause, Chicago, Ill. Chair.....	Aug. 10, 1875	357	110	8	257
164, 482	Reutchler, Henry, and Elias M. Morgan, Belleville, Ill. Grain drill and planter.....	June 15, 1875	619	200	7	1033
163, 107	Revell, John. (See Mizell & Revell.)					
163, 807	Rex & Bockins. (See Vasquez, Charles L., assignor.)					
160, 470	Rexford, Richard W., Boston, Mass. Wringer-roll.....	May 11, 1875	362	118	7	802
165, 121	Reyburn, William S., and Frederick J. Martin, Philadelphia, Pa. Lightning-rod standard.....	May 25, 1875	1026	325	7	913
170, 399	Reycroft, Joseph W., East Cambridge, Mass. Sash-holder.....	Mar. 2, 1875	191	66	7	376
164, 329	Reynolds & Reynolds. (See Reynolds, Ira, assignor.)					
165, 122	Reynolds, Andrew J., Chicago, Ill. Fruit-drier.....	June 29, 1875	1218	392	7	1129
160, 956	Reynolds, Daniel M., Chicago, Ill. Portable flower-stand.....	Nov. 23, 1875	1065	335	8	898
162, 497	Reynolds, David M., Port Deposit, Md. Machine for polishing sheet-iron.....	June 8, 1875	462	153	7	1004
163, 410	Reynolds, Edwin, Providence, R. I. Screw-tap.....	Nov. 23, 1875	1063	334	8	898
164, 394	Reynolds, George, Unionville, Conn. Snap-hook.....	June 29, 1875	1220	392	7	1129
162, 101	Reynolds, George H., assignor of one-half interest to Cornelius H. Delamater and George H. Robinson, New York, N. Y. Relief apparatus for air-compressors.....	Mar. 16, 1875	658	215	7	456
162, 192	Same.....Valve-gear for steam-engines.....	Apr. 13, 1875	453	151	7	642
162, 419	Same.....Cushion for pistons of steam-engines.....	Apr. 20, 1875	557	183	7	663
162, 690	Reynolds, George H., assignor to self and Cornelius H. Delamater, New York, N. Y. Rock-drill.....	Apr. 20, 1875	773	251	7	689
163, 257	Reynolds, George H., assignor of one-half interest to Cornelius H. Delamater and George H. Robinson, New York, N. Y. Valve for steam-engines.....	Apr. 27, 1875	1042	332	7	731
164, 394	Reynolds, George H., New York, and Walter Tefft, Mineville, N. Y. Rock-drill chuck.....	May 11, 1875	500	163	7	819
164, 395	Reynolds, George H., assignor to self, Cornelius H. Delamater, and George H. Robinson, New York, N. Y. Rock-drill.....	June 15, 1875	538	177	7	1023
164, 396	Same.....Tripod for rock-drills.....	June 15, 1875	540	177	7	1023
165, 120	Same.....Rock-drill tripod.....	June 15, 1875	542	178	7	1023
165, 120	Reynolds, George H., and James Miller, assignors of one-half interest to Cornelius H. Delamater and George H. Robinson, New York, N. Y. Valve and box for air-com- pressors.....	June 29, 1875	1217	392	7	1128

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169, 586	Reynolds, George H., New York, N. Y., assignor to self, C. H. Delamater, and George H. Robinson. Piston-packing.....	Nov. 2, 1875	246	81	8	767
169, 587	Same..... Rock-drilling engine.....	Nov. 2, 1875	247	81	8	768
169, 588	Same..... Press.....	Nov. 2, 1875	248	81	8	768
158, 523	Reynolds, George W. (See Rider & Reynolds.)					
164, 873	Reynolds, Henry, Green Point, N. Y. Coal-scuttle.....	Jan. 5, 1875	151	51	7	30
168, 417	Reynolds, Ira, assignor to Reynolds & Reynolds, Dayton, Ohio. Blank-book.....	June 22, 1875	984	318	7	1090
162, 100	Reynolds, Isaac N., Cincinnati, Ohio. Tobacco-bucket lid.....	Oct. 5, 1875	88	30	8	577
	Reynolds, Jesse, Philadelphia, Pa. Radiator.....	Apr. 13, 1875	452	151	7	642
158, 739	Reynolds, John. (See Carobbi & Bellini, assignors.)					
170, 769	Reynolds, Joseph A., New York, N. Y. Towel-rack.....	Jan. 12, 1875	357	121	7	74
6, 361	Reynolds, Joshua G., Elizabeth, N. J. Strap-hinge.....	Dec. 7, 1875	105	33	8	964
158, 439	Reynolds, Ransom S., Waterbury, Conn., assignor, by mesne assignments, to James A. Maloney, James S. Welch, Abraham H. Herr, and Edward P., James H., Rosia W., and Herbert P. Welch. Grain-drier..... (Reissue.)	Mar. 30, 1875	1292	{ 414 415 }	{ 7 7 }	556
158, 440	Reynolds, Silas H., and George B. Newhall, Lynn, Mass. Feather-edge-skiving knife for shoe-making.....	Jan. 5, 1875	73	26	7	20
	Reynolds, William C., Colliertown, Va. Seed-planter.....	Jan. 5, 1875	74	26	7	20
159, 610	Reynolds, William D., trustee. (See Goodridge, John M., assignor)..... (Reissue.)					
170, 191	Reynolds, William H., et al. (See Garrick, Thomas, assignor.)					
164, 764	Reynolds, William L., assignor of two-thirds interest to Calvin Haskell and William B. Dean, Saint Louis, Mo. Manufacture of wire.....	Feb. 9, 1875	351	.....	7	241
165, 755	Rhind, Frank, Brooklyn, N. Y., assignor to Bristol Brass and Clock Company, Bristol, Conn. Die for forming screw-threads.....	Nov. 23, 1875	877	274	8	872
169, 479	Rhind, Frank, Brooklyn, N. Y., assignor of two-thirds interest to Keys P. Cool, New York, N. Y., and Jane E. Smith, Crawford, N. J. Car-lamp.....	June 22, 1875	877	286	7	1077
	Rhind, Frank, Brooklyn, N. Y., assignor of two-thirds interest to Jane E. Smith, Cranford, N. J., and Keyes P. Cool, Glens Falls, N. Y. Method of blowing glass spheres.....	July 20, 1875	611	188	8	117
	Rhoades, James W. (See Carter & Rhoades.)	Nov. 2, 1875	142	46	8	754
162, 950	Rhoads, James M. (See Rhoads, John, assignor.)					
164, 330	Rhoads, John, Harrisburgh, Pa. Car-axle box.....	May 4, 1875	198	65	7	773
171, 531	Rhoads, John, assignor of one-half interest to James M. Rhoads, Harrisburgh, Pa. Car-coupling.....	June 8, 1875	463	153	7	1004
6, 551	Rhoads, John P., Philadelphia, Pa. Station-indicator.....	Dec. 28, 1875	866	284	8	1089
	Rhodes, Benjamin, Bow, England, assignor, by mesne assignments, to Nathaniel B. Fugitt, Washington, D. C. Paper barrel and cylindrical box. (Reissue.)	July 20, 1875	772	236	8	139
6, 552	Same..... Manufacture of irregular-shaped vessels..... (Reissue.)	July 20, 1875	773	237	8	139
162, 193	Rhodes, Henry H. (See Redmond & Rhodes.)					
169, 374	Rhodes, Henry H., and Charles C. Redmond, assignors of one-half interest to H. S. Lampkin and E. M. Gibson, San José, Cal. Bobbin-winder for sewing-machines.....	Apr. 20, 1875	558	183	7	663
168, 528	Rhodes, Samuel G., Michael Shillito, and John I. Speed, Leeds, England. Machine for finishing yarn, thread, &c.....	Nov. 2, 1875	53	16	8	742
164, 483	Rhodes, William. (See Combs & Rhodes.)					
	Rhodes, William P., and John H. Swartz, assignors to said Rhodes and De Witt C. Taylor, Brooklyn, N. Y. Water-meter.....	Oct. 5, 1875	189	62	8	591
	Rice, Aaron, assignor to Walter Heywood Chair Company, Fitchburgh, Mass. Rotary stool.....	June 15, 1875	620	201	7	1033
163, 694	Rice, Barton and Fales Machine and Iron Company. (See Webber, Charles C., assignor.)					
160, 350	Rice, Charles E., et al. (See Moulton, Damon & Rice.)					
168, 529	Rice, Charles W., and Asa L. Burbank, Worcester, Mass. Mainspring for watches.....	May 25, 1875	927	295	7	899
168, 782	Rice, David H., and John W. Murkland, Lowell, Mass. Adjustable saw-bench.....	Mar. 2, 1875	82	29, 30	7	360
	Rice, David H., and John W. Murkland, Lowell, Mass., said Murkland assignor to said Rice. Planing-machine.....	Oct. 5, 1875	190	62	8	591
	Rice, Elisha E., San Francisco, Cal., assignor of one-fourth interest to G. W. Dyer, Washington, D. C. Method and apparatus for burning oils.....	Oct. 11, 1875	445	145	8	635
6, 422	Rice, F. B. (See Pelton, George M., assignor.)					
166, 720	Rice, Frank P., et al. (See Bridgman, Charles F., assignor.)					
161, 549	Rice, Harvey W., Haywood, Cal. Steam-boiler..... (Reissue.)	May 4, 1875	255	82	7	780
162, 768	Rice, Henry F., Allen County, Kansas. Implement for destroying chinch-bugs.....	Aug. 17, 1875	528	162	8	290
162, 769	Rice, Henry F., James M., and William B., Dubuque, Iowa. Car-brake.....	Mar. 30, 1875	1241	399	7	549
	Same..... Floating draw-bridge.....	May 4, 1875	29	10	7	751
	Same..... Car-coupling.....	May 4, 1875	31	10	7	751
8, 372	Rice, Israel L. G. (See Moulton, Damon & Rice.)					
165, 870	Rice, James D., Philadelphia, Pa. Tea and coffee pot..... (Design.)	June 1, 1875	.....	.....	7	926
	Same..... Stereoscopic-picture holder.....	July 20, 1875	729	222	8	133
159, 842	Rice, James M. (See Rice, Henry F., James M., and William B.)					
160, 120	Rice, John H., Keithsburg, Ill. Cultivator.....	Feb. 16, 1875	581	193	7	277
158, 441	Rice, Mark A., Pent Water, Mich. Electro-magnet.....	Feb. 23, 1875	852	281	7	321
163, 411	Rice, Orrin, Adrian, Ill. Door-mat.....	Jan. 5, 1875	74	27	7	20
	Same..... same.....	May 18, 1875	659	211	7	857
	Rice, Quartus, South Boston, Mass. Sewing-machine..... (Extension.)	Jan. 21, 1875	.....	.....	7	222
170, 016	Rice, William B. (See Rice, Henry F., James M., and William B.)					
161, 638	Rice, William B., trustee. (See Prusha & Wales, assignors)..... (Reissue.)					
164, 037	Rice, William B., Quincy, Mass. Boot and shoe.....	Nov. 16, 1875	689	216	8	840
170, 593	Rich, Henry F. (See Walton, James, assignor.)					
	Richard, Joseph S., Paris, France. Warping-machine.....	Apr. 6, 1875	43	16, 17	7	575
	Richards, Augustus C., New York, N. Y. Type-setting machine.....	June 1, 1875	171	60, 61	7	954
	Same..... same.....	Nov. 30, 1875	1263	{ 397 398 }	{ 8 8 }	933
168, 530	Richards, Augustus W. (See Jenkins & Richards.)					
164, 102	Richards, Aurelius W., Muscatine, Iowa. Carriage-jack.....	Oct. 5, 1875	191	63	8	591
	Richards, Francis H., New Britain, Conn. Machine for forging horseshoe-nail-blank bars.....	June 8, 1875	255	87, 88	7	977
	Richards, George. (See Richards, John and George.)					
	Richards, Henry. (See Traut & Richards.)					
170, 017	Richards, I. Clark, Farmington, Me. Apple-slicer.....	Nov. 16, 1875	690	217	8	840
167, 023	Richards, Jackson, Philadelphia, Pa. Piston-packing.....	Aug. 24, 1875	825	257	8	341
159, 279	Richards, John, Philadelphia, Pa., and George Richards, Gothenburg, Sweden. Boring-machine.....	Feb. 2, 1875	33	12	7	189
	Richards, Joseph W. (See Spear & Richards.)					
	Richards, Paul. (See Hern & Richards.)					
	Richards, Percival D. (See Safford, Mark, assignor.)					

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161, 902	Richards, Percival D., West Medford, assignor to Cutter, Tower & Co., Boston, Mass. Pencil and crayon holder.	Apr. 13, 1875	287	97	7	621
165, 871	Richards, Thomas, Sydney, Australia. Numbering printing-plates.	July 20, 1875	730	223	8	133
166, 477	Richards, Thomas, Cleveland, Ohio. Life-preserving jacket.	Aug. 10, 1875	297	89	8	248
166, 145	Richards, Thomas C., West Winsted, Conn. Socket for attaching ornamental heads to nails.	July 27, 1875	1007	310	8	184
167, 620	Same. Adjustable hook for hanging pictures.	Sept. 14, 1875	226	70	8	445
169, 730	Richards, Thomas C., New York, N. Y. Picture-nail.	Nov. 9, 1875	410	130	8	796
169, 921	Richards, Thomas C., West Winsted, Conn. Screw attachment for picture-nails.	Nov. 16, 1875	611	189	8	829
169, 922	Same. Coffin-handle.	Nov. 16, 1875	612	190	8	829
	Richardson, Albion P. (See Tongas, John B., assignor.)					
	Richardson, Alfred J. (See Potter & Richardson.)					
164, 036	Richardson, Arthur A., Leominster, Mass. Hat.	June 1, 1875	170	60	7	954
169, 845	Richardson, Clinton W., Flushing, assignor to Davis Metallic Wheel Manufacturing Company, New York, N. Y. Vehicle-axle.	Nov. 9, 1875	529	165	8	810
158, 740	Richardson, David M., Detroit, Mich. Grain-scourer.	Jan. 12, 1875	357	122	7	74
166, 478	Richardson, Ephraim D., Chardon, Ohio. Clothes-line reel.	Aug. 10, 1875	297	89	8	248
165, 506	Richardson, Everett P., Lawrence, Mass. Machine for sewing turned shoes.	July 13, 1875	372	110 111	8	67
165, 505	Richardson, Ezra, and Porter Harkness, New Rutland, Ill. Windmill and watering apparatus.	July 13, 1875	371	110	8	67
166, 411	Richardson, Frederic A., Boston, Mass. Shirt.	Aug. 3, 1875	214	65	8	229
6, 415	Richardson, George, Lowell, Mass., assignor of one-half interest to Lowell Machine Shop. Spindle-bolster for spinning-machines. (Reissue.)	May 4, 1875	248	79	7	780
6, 416	Same. Bobbin for spinning-machines. (Reissue.)	May 4, 1875	249	80	7	780
163, 887	Richardson, George, Lowell, Mass. Spinning-ring and ring-rail.	June 1, 1875	43	15	7	936
167, 272	Same. Guide for spooling and winding machines.	Aug. 31, 1875	1072	334	8	383
170, 594	Richardson, George, Milwaukee, Wis. Apparatus for treating carbonic acid for hardening cement.	Nov. 30, 1875	1264	398	8	933
171, 427	Richardson, Hamilton, Janesville, Wis. Sulky-plow.	Dec. 21, 1875	752	247	8	1065
166, 938	Richardson, Henry J., Brooklyn, N. Y. Ruler.	Aug. 24, 1875	742	230	8	330
164, 935	Richardson, Isaac C., Nashua, N. H. Steam-heating apparatus.	June 29, 1875	1061	342	7	1107
161, 550	Richardson, James P., Washington, D. C. Composition for pavements.	Mar. 30, 1875	1242		7	549
166, 144	Same. Magazine for coal-stoves.	July 27, 1875	1006	310	8	184
162, 951	Richardson, John, New York, N. Y. Opera-chair.	May 4, 1875	199	65	7	773
158, 980	Richardson, John D., Houston, Tex. Bed-plate for steam-engines.	Jan. 19, 1875	604	200 201	7	122
	Richardson, John J. (See Clark, Richardson & Foller.)					
164, 331	Richardson, Julius C., Manlius, N. Y. Manufacture of trowels.	June 8, 1875	463	153 154	7	1004
	Richardson, Leonard. (See Chimrock, George H., assignor.)					
	Same. (See Leland, Edwin A., assignor.)					
	Richardson, Marcus F. (See Neal, Thomas H., assignor.)					
158, 866	Richardson, Milo A., Bridgeport, Conn. Monument.	Jan. 19, 1875	493	166	7	108
165, 754	Same. Wringer.	July 20, 1875	610	188	8	117
168, 107	Richardson, Milo A., Bridgeport, Conn., assignor to Edwin Riply, Sherman, N. Y. Boot-jack.	Sept. 28, 1875	701	222	8	528
169, 192	Richardson, Milo A., Bridgeport, Conn. Soldering process.	Oct. 26, 1875	849	277	8	708
167, 358	Richardson, Nathan H., Fitchburgh, Mass. Measuring mechanism for rattan-machines.	Aug. 31, 1875	1148	361	8	394
168, 343	Richardson, Orlo W., Chicago, Ill. Pattern-multiplier.	Oct. 5, 1875	22	9	8	565
	Richardson, Orville P. (See Mason & Richardson.)					
164, 874	Richardson, William, New York, N. Y. Bell-pull.	June 22, 1875	985	318	7	1090
166, 721	Richardson, William C. B., Cleveland, Ohio. Rotary spader.	Aug. 17, 1875	529	162	8	291
	Richardson, William H. (See Tiffany, George E., assignor.)					
162, 691	Richardson, William H., Cincinnati, Ohio. Spark-arrester.	Apr. 27, 1875	1043	333	7	731
167, 120	Richardson, William H., San Francisco, Cal. Air and water heater.	Aug. 24, 1875	917	286	8	354
163, 529	Richeson, James D., Saint Louis, Mo. Ventilating-pipe for lead-corroding houses.	May 18, 1875	773	245	7	871
165, 026	Richey, Albert H., Lebanon, Pa. Tailor's measuring apparatus.	June 29, 1875	1134	366	7	1117
167, 691	Richey, James, and Lachan H. McDougall, Cincinnati, Ohio. Coffin.	Sept. 14, 1875	285	90	8	454
	Richie, E. Lucien. (See Werni, Pelag, assignor.)					
160, 232	Richmann, Henry, Cincinnati, Ohio. Hydraulic hoist.	Feb. 23, 1875	948	311	7	335
160, 233	Same. Hoisting-machine.	Feb. 23, 1875	949	311	7	335
158, 741	Richmond, Apollos, Brooklyn, Conn. Grate.	Jan. 12, 1875	358	122	7	74
	Richmond Car Lifter Company. (See Imboden, John D., assignor.)					
171, 169	Richmond, Eli S., assignor of one-half interest to Hiram L. Richmond, Aberdeen, Ind. Washing-machine.	Dec. 14, 1875	489	161	8	1023
	Richmond, Hiram L. (See Richmond, Eli S., assignor.)					
158, 524	Richmond, James, deceased, by William Richmond, executor, Lockport, N. Y. Smut-mill.	Jan. 5, 1875	152	51	7	30
	Richmond, John T. (See Emerson, Clark & Richmond.)					
	Richmond, William, executor. (See Richmond, James.)					
167, 788	Richmond, William, Thomas Ryan, and James McGill, Lockport, N. Y. Smut-mill.	Sept. 14, 1875	377	120 121	8	467
8, 416	Richter, Charles, Dedham, assignor to Alden Batchelder, Reading, Mass. Desk. (Design.)	June 22, 1875			7	1057
	Richter, Daniel. (See Waehner, Johann, assignor.)					
	Richter, George. (See Bartenbach & Richter.)					
165, 756	Richter, Joseph, and Gumal Merkel, Cincinnati, Ohio. Lubricator.	July 20, 1875	612	188	8	118
170, 400	Richter, Rudolph, assignor of one-half interest to John E. Thomas, Indianapolis, Ind. Operating prison-doors.	Nov. 23, 1875	1065	335	8	898
	Ricker, Samuel W. (See Smith & Ricker.)					
168, 288	Ricketts, John C., Denver, Colo. Kitchen-table.	Sept. 28, 1875	865	277	8	551
170, 114	Riddle, George T., Saint Louis, Mo. Matching-machine for box-stuff.	Nov. 16, 1875	781	248	8	852
158, 525	Rider, Alexander K., assignor to Rider, Wooster & Co., Walden, N. Y. Air-vacuum engine.	Jan. 5, 1875	153	52	7	30
167, 568	Same. Air-engine.	Sept. 7, 1875	165	52	8	429
	Rider, C. W., administrator. (See Rider, Edward S.)					
163, 412	Rider, Edward S., Catlettsburgh, Ky. Dental plugger.	May 18, 1875	660	211	7	857
171, 170	Rider, Edward S., deceased, Catlettsburgh, Ky., by C. W. Rider, administrator. Dental plugger.	Dec. 14, 1875	489	162	8	1023
159, 553	Rider, Leman P., Pittsburgh, Pa. Casting tubular articles.	Feb. 9, 1875	309	100	7	234
160, 715	Rider, Leman P., and William H. Shillito, Pittsburgh, Pa. Relief-valve for air and steam brake cylinders.	Mar. 9, 1875	422	140	7	418
163, 530	Rider, Michael C., and George W. Reynolds, Loveville, Pa. Grain-separator.	May 18, 1875	774	245	7	871
166, 939	Rider, William H., assignor to self, Levy Shirley, and A. D. King, Plum Hollow, Iowa. Corn-marker.	Aug. 24, 1875	743	230	8	330
	Rider, Wooster & Co. (See Rider, Alexander K., assignor.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
167, 121	Ridgely, James L., jr., Harrisonville, Md. Lumber-car.	Aug. 24, 1875	919	286	8	354
159, 709	Ridgway, Charles L., Boston, assignor of one-half interest to Joseph H. Hatch, Melrose, Mass. Self lighting cigar.	Feb. 9, 1875	441	148	7	254
159, 843	Ridgway, Dan H. (See Thornton, John J., assignor.)					
	Ridgway, Job H., Philadelphia, Pa. Refrigerator.	Feb. 16, 1875	582	193	7	277
	Ridgway, John C. (See McKenna, William S., assignor.)					
167, 569	Ridgway, N. B., et al. (See Burrows, William T., assignor.)					
	Rieder, Albert, assignor to self, Michael Helbling, and Samuel S. McKenney, Allegheny, Pa. Compound for lining oil-barrels.	Sept. 7, 1875	167	.....	8	430
168, 108	Rieder, Albert, Allegheny, Pa. Compound resembling linseed-oil.	Sept. 28, 1875	702	.....	8	529
160, 234	Riedinger, Michael, Yorkville, Ind. Game-board.	Feb. 23, 1875	950	312	7	335
158, 526	Riedling, Frederick, Upper Sandusky, Ohio. Sheep-shears.	Jan. 5, 1875	154	52	7	30
166, 299	Riegel, Samuel D., Adelphi, Ohio. Adjustable handle for harrows.	Aug. 3, 1875	104	33	8	214
	Riegler, Alexander. (See Lunkenheimer & Riegler.)					
166, 479	Rieppel, John, Renovo, Pa. Steam-whistle.	Aug. 10, 1875	298	89	8	249
164, 214	Riesbeck, George, Pittsburgh, Pa. Combination-lock.	June 8, 1875	351	120	7	989
167, 939	Riesel, Henry, Galveston, Tex. Automatic bale-rolling attachment for compressors.	Sept. 21, 1875	518	166	8	496
164, 875	Rieth, John, Lansing, Iowa. Wash-boiler.	June 22, 1875	986	318	7	1090
159, 967	Rigby, Artemas, Upper Stillwater, Me. Plow.	Feb. 16, 1875	697	232	7	292
160, 716	Rigby, Clark F., Newcastle, Pa. Rack for barrels.	Mar. 9, 1875	423	141	7	418
161, 278	Rigby, Henry, Philadelphia, Pa. Stereoscope.	Mar. 23, 1875	967	316	7	505
160, 351	Rigby, James, assignor of one-half interest to V. A. Farr, Springfield, Ohio. Middlings-purifier.	Mar. 2, 1875	84	30	7	360
163, 609	Rigby, John, Chicopee, Mass. Loom-shuttle.	May 25, 1875	861	271	7	890
163, 808	Riggins, George B., New York, N. Y. Steam-radiator.	May 25, 1875	1026	325	7	913
	Rigsby, John W. (See Hopkins & Rigsby.)					
159, 452	Riker, Carroll L., Rochelle Park, N. J., assignor to the Vegetable Felting Company, New York, N. Y. Non-conducting covering.	Feb. 2, 1875	191	64	7	211
167, 122	Rikli, Mathieu A., Neideruzwyl, Switzerland. Passenger-car.	Aug. 24, 1875	919	287	8	355
163, 256	Riley, Alexander H., Butler, Georgia. Attachment to crosscut-saws.	May 11, 1875	499	162	7	319
166, 811	Riley, Alfred T., Halleck, Mo. Car-brake.	Aug. 17, 1875	609	188	8	303
165, 027	Riley, Charles W., Philadelphia, Pa. Air hand-engine.	June 29, 1875	1135	366	7	1117
165, 507	Riley, Isaac, assignor to Baird & Riley, Boston, Mass. Water-supply apparatus for water-closets.	July 13, 1875	375	111	8	67
168, 783	Riley, John C., Cincinnati, Ohio. Gasoline-burner.	Oct. 11, 1875	447	146	8	636
	Riley, Thomas M. (See Stanton & Riley.)					
	Rilling, John G. (See Hehr, John G., assignor.)					
168, 847	Rimbach, George, Boston, Mass. Key-board harmonicon.	Oct. 19, 1875	514	168	8	653
162, 692	Rimbold, Pierre, San Antonio, Tex. Bench-vise.	Apr. 27, 1875	1044	333	7	731
164, 936	Rimes, Adam, assignor of one-half interest to Theodore N. Austin, Marshall, Mich. Hub.	June 29, 1875	1063	342	7	1107
170, 595	Rinek, John, Easton, Pa. Tube for forming rope.	Nov. 30, 1875	1265	398	8	933
	Ring, Jacob L. (See Brancher & Ring.)					
	Ring, Peter, et al. (See Carroll, Thomas J., assignor.)					
165, 179	Ringin, Gerhard, Smith City, Mo. Plow.	July 6, 1875	37	10	8	13
170, 899	Rinker, Robert S., Mount Jackson, Va. Automatic gate.	Dec. 7, 1875	214	74	8	979
164, 484	Rioth, Joseph, Mount Sterling, Ill. Harrow.	June 15, 1875	620	201	7	1033
	Ripley, George B. (See Fell, Thomas M., assignor.)					
171, 244	Ripley, William L., Indianapolis, Ind. Combined check-box and cash-indicator.	Dec. 21, 1875	587	193	8	1044
	Riply, Edwin. (See Richardson, Milo A., assignor.)					
169, 040	Rippien, Adolph, assignor to William and Mathan Harbster and William M. Griscom, Reading, Pa. Apple-paring machine.	Oct. 19, 1875	692	228	8	678
160, 352	Rippingille, Edward A., Holborn, England. Lamp for lighting and heating.	Mar. 2, 1875	85	31	7	361
	Ripple, John M. (See Knight & Ripple.)					
169, 846	Rising, George M., Cherokee, Iowa. Whip-socket.	Nov. 9, 1875	529	165	8	810
6, 607	Ritchie, Edward S., Brookline, Mass. Mariner's compass.	Aug. 24, 1875	946	295	8	358
	Same. (Reissue)			296		
6, 827	Same. (Reissue)	Dec. 28, 1875	989	319	8	1106
	Same. (Reissue)			320		
163, 946	Same. Apparatus for viewing pictures.	June 1, 1875	91	31	7	943
166, 812	Same. Mariner's compass.	Aug. 17, 1875	610	189	8	303
170, 451	Same. Lantern.	Nov. 30, 1875	1125	354	8	915
	Ritchie, Francis. (See Vedder & Ritchie.) (Design.)					
	Same. (See Vedder, Heister & Ritchie.) (Design.)					
	Same. (See Vedder, Ritchie & Heister.) (Design.)					
	Same. (See Wolfe & Ritchie.) (Design.)					
	Same. (See Wolfe, Vedder & Ritchie.) (Design.)					
159, 453	Rites, Lewis A., Grey Court, N. Y. Device for increasing traction of locomotives.	Feb. 2, 1875	192	64	7	211
169, 041	Rittenhouse, Thomas L., and J. Vance Lewis, Washington, D. C. Corn-planter.	Oct. 19, 1875	693	228	8	678
	Roads, Thomas J. (See Jackson, Hannibal R., assignor.)					
163, 531	Roake, Daniel, Haverhill, Mass. Rain-spout support.	May 18, 1875	774	245	7	871
159, 454	Roark, Amos, Gilman, Iowa. Corn-planter.	Feb. 2, 1875	192	65	7	211
162, 102	Robards, Joseph W., Richmond, Va. Sewing-machine hemmer.	Apr. 13, 1875	454	151	7	642
165, 508	Robarts, James L., Brunswick, Ga. Stove.	July 13, 1875	376	111	8	67
169, 193	Robbins, Elsha, Cotuit Port, Mass. Anchor-tripper.	Oct. 26, 1875	850	277	8	708
164, 765	Robbins, Frank, Oil City, Pa. Photographic dark-trunk.	June 22, 1875	878	286	7	1077
168, 050	Robbins, Henry R., Baltimore, Md. Sad-iron.	Sept. 21, 1875	625	200	8	512
159, 219	Robbins, Hiram B., Tekonsha, Mich. Tire-tightener.	Jan. 26, 1875	847	277	7	163
171, 171	Robbins, Joseph A., Boston, Mass., assignor to Nathaniel Corning, North Londonderry, N. H., D. W. B. Jackson, Boston, George W. Hobbs, Uxbridge, and William Keach, Milford, Mass. Door-spring.	Dec. 14, 1875	491	162	8	1023
165, 758	Robbins, Louis S., New York, N. Y. Process of preserving wood.	July 20, 1875	613	189	8	118
164, 397	Robbins, Stephen, Philadelphia, Pa. Machine for granulating slag.	June 15, 1875	543	178	7	1023
160, 121	Robert, Julius, Gross Seedowitz, Austria, assignor to Oto Kratz and R. Sieg, New Orleans, La. Sugar-cane-cutting machine.	Feb. 23, 1875	852	281	7	322
	Roberts, Benjamin F. (See Heaton, Horace L., assignor.)					
170, 192	Roberts, Benjamin F., Bennington, Vt. Bailed earthenware.	Nov. 23, 1875	878	275	8	872
170, 770	Same. Butter-carrier.	Dec. 7, 1875	106	34	8	964
8, 486	Roberts, Christopher, Newark, N. J. Rubber eraser. (Design.)	July 13, 1875	.....	.....	8	49
166, 147	Roberts, Cyrus, Three Rivers, Mich. Portable horse-power.	July 27, 1875	1008	311	8	184
162, 498	Roberts, Cyrus G., Jersey City, N. J. Spark-arrester.	Apr. 27, 1875	871	279	7	710
161, 551	Roberts, Ebenezer L., Plainfield, N. J. Ventilating-bed.	Mar. 30, 1875	1243	400	7	549
6, 258	Roberts, Edward A. L., Titusville, Pa. Method of increasing the capacity of oil-wells. (Reissue)	Jan. 26, 1875	883	287	7	168

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
165, 616	Roberts, Edward C., Broad Ford, Pa. Instrument for measuring distances and altitudes.	July 13, 1875	473	144	8	82
160, 717	Roberts, Edward J., assignor to self, A. John Bell, and Edward M. Norton, Ashland, Ky. Car-brake.	Mar. 9, 1875	423	141	7	418
170, 115	Roberts, George, administrator. (See Perkins, George C.)	Nov. 16, 1875	782	248	8	852
160, 235	Roberts, George B., et al. (See Shaw, Benjamin F., assignor.)					
8, 783	Roberts, George H., Bow, England. Mold for the manufacture of screws from hard caoutchouc.	Feb. 23, 1875	950	312	7	336
165, 757	Roberts, Henry P., De Ruyter, N. Y. Flower-stand. (Design).	Nov. 9, 1875			8	777
161, 157	Roberts, John H., Boston, Mass. Scroll-sawing machine.	July 20, 1875	612	189	8	118
160, 002	Roberts, Leonard C., Gorham, Me. Cultivator.	Mar. 23, 1875	851	278	7	490
158, 603	Roberts, Lewis E., Quakertown, Pa. Clamp for anchoring cores.	Feb. 23, 1875	806	265	7	314
168, 289	Roberts, Luke J., Waterbury, Conn. Milk-cooler.	Jan. 12, 1875	239	81	7	57
167, 789	Roberts, Malcom, North Madison, Ohio. Heating-stove.	Sept. 28, 1875	866	277	8	551
6, 211	Roberts, Mark L., assignor of two-thirds interest to Elijah O. Case and William R. Newlon, Mansfield, Ohio. Horseshoe.	Sept. 14, 1875	378	121	8	467
159, 844	Roberts, Martin R., San Francisco, Cal. Coal screen and chute. (Reissue).	Jan. 5, 1875	194	66	7	36
165, 256	Roberts, Mathew H., assignor of one-half interest to John McCoy, Philadelphia, Pa. Heater.	Feb. 16, 1875	583	193	7	277
166, 146	Roberts, Moses C., and King D. Briggs, Great Bend, N. Y. Metallic butter-package.	July 6, 1875	105	31	8	23
160, 122	Roberts, Perley P., Morrisville, Vt. Vegetable-washer.	July 27, 1875	1008	310	8	184
163, 413	Roberts, Robert, Pattenburgh, assignor of one-half interest to Nathan S. Wickoff, Clinton, N. J. Dumping-car.	Feb. 23, 1875	853	282	7	322
168, 734	Roberts, Robert R., Hot Springs, Ark. Portable medicating hot-vapor bath.	May 18, 1875	661	211	7	857
169, 480	Roberts, Robert R., Vermillion, Ill. Elevator for vehicles.	Oct. 11, 1875	448	146	8	636
164, 766	Roberts, Thomas, assignor of one-half interest to Abel S. Dungan, Baltimore, Md. Hermetic-sealing device.	Nov. 2, 1875	142	46	8	755
161, 440	Roberts, William, Quincy, Ill. Combined lamp and oil-can.	June 22, 1875	878	286	7	1077
171, 045	Robertson, Edwin, Fairmount, Ill. Sulky-plow.	Mar. 30, 1875	1134	366	7	535
164, 937	Robertson, John F., Chester, N. Y. Toy trundle.	Dec. 14, 1875	364	121	8	1006
166, 480	Robertson, John L. (See Blakey, Mildred, assignor.)					
164, 038	Robertson, J. Truro, New York, N. Y. Picture-hanger.	June 29, 1875	1063	342	7	1107
165, 123	Robertson, Robert A. (See Watson & Robertson.)					
168, 785	Robertson, Thomas, Toronto, Canada. Match-box.	Aug. 10, 1875	299	90	8	249
162, 577	Robertson, Thomas J. W., Washington, D. C. Sash-balance.	June 1, 1875	171	61	7	954
159, 042	Robertson, T. J. W., New York, N. Y. Iron fence.	June 29, 1875	1220	393	7	1129
159, 845	Robertson, William H., assignor of two-thirds interest to Rufus Ford and Abel H. Gunn, Buda, Ill. Cultivator.	Oct. 11, 1875	448	146	8	636
169, 292	Robertson, William W. (See Johnstone, William, assignor.)	Apr. 27, 1875	935	300	7	718
161, 704	Robinson, Albert M. (See Robinson, Francis D., assignor.)					
165, 028	Robinson, Almon, Webster, Me. Manufacture of wooden boxes.	Jan. 26, 1875	687	227	7	140
165, 509	Robinson, Andrew J., Troy, N. Y. Chimney-cowl.	Feb. 16, 1875	583	194	7	277
171, 632	Robinson, Andrew J., New York, N. Y. Chimney-cowl.	Oct. 26, 1875	944	306	8	720
161, 826	Robinson, Charles, Cambridge, Mass. Street-lamp reflector.	Apr. 6, 1875	96	34	7	583
163, 532	Robinson, Charles E., Brooklyn, N. Y. Steam-boiler furnace.	June 29, 1875	1136	366	7	1117
159, 710	Robinson, Clark, assignor of one-fourth interest to Charles Desilets, Eau Claire, Wis. Thill-coupling.	July 13, 1875	376	111	8	68
167, 622	Robinson, Clark, Eau Claire, Wis. Trace-fastener.	Dec. 28, 1875	976	316	8	1104
163, 947	Robinson, Clark, Eau Claire, Wis. Trace-fastener.	Apr. 6, 1875	208	70	7	598
161, 705	Robinson, Darius S., Cleveland, Ohio. Paint-oil compound and process of preparing the same.	May 18, 1875	775	246	7	871
163, 947	Robinson, Darius S., assignor of one-half interest to Asbury M. Searles, Cleveland, Ohio. Paint-oil compound.	Feb. 9, 1875	441		7	254
161, 705	Robinson, Edward J., Schenectady, N. Y. Washing-machine.	Sept. 14, 1875	227		8	445
159, 968	Robinson, Francis D., assignor to Albert M. Robinson, Boston, Mass. Latch for doors, &c.	June 1, 1875	92	31	7	943
164, 215	Robinson, George H., et al. (See Reynolds & Miller, assignors.)	Apr. 6, 1875	97	34	7	583
160, 471	Robinson, James H., Washington, D. C. Heating-stove.	Feb. 16, 1875	698	232	7	293
168, 052	Robinson, James J., Gibson City, Ill. Rotary churn-dasher.	June 8, 1875	352	120	7	989
163, 809	Robinson, John B. (See Anderson & Houghton, assignors.) (Reissue.)					
162, 253	Robinson, John J., Orange Court-House, Va. Stair-builder's rule.	Mar. 2, 1875	192	66	7	376
163, 810	Robinson, Lafayette, Medina, N. Y. Sink.	Sept. 21, 1875	626	201	8	512
158, 981	Robinson, Mark M. (See Covell & Robinson.)					
158, 982	Robinson, Mary E., Jackson, Miss. Starch-lubricant.	May 25, 1875	1027		7	913
162, 420	Robinson, Nelson L. (See Acker & Robinson.)					
167, 621	Robinson, Norman W., Frank W. Smith, and Henry Campbell, Burlington, Vt. Machine for grinding marble and tile.	Apr. 20, 1875	615	200	7	670
159, 119	Robinson, Orvil M., Upper Jay, N. Y. Breech-loading fire-arm.	May 25, 1875	1028	325	7	913
169, 660	Robinson, R. Miles, Philadelphia, Pa. Fare-box.	Jan. 19, 1875	605	201	7	122
166, 225	Robinson, Samuel F., Quincy, Ill., assignor of one-half interest to Philip M. Ogan, Saint Louis, Mo. Hand-stamp.	Jan. 19, 1875	608	201	7	122
165, 872	Robinson, Sylvanus E., Marshfield, Wis. Wrench.	Apr. 20, 1875	775	252	7	689
171, 172	Robinson, Thomas C., Boston, Mass. Ship's log.	Sept. 14, 1875	226	71	8	445
169, 293	Robinson, William, Saint Petersburg, Pa. Connector for electric track-circuits.	Jan. 26, 1875	757	248	7	150
164, 938	Robinson, William, jr., assignor to self and Samuel Harris, Wilmington, Del. Brake-shoe.	Nov. 9, 1875	337	107	8	787
170, 301	Robinson, William, Bellefontaine, Ohio. Car-coupling.	Aug. 3, 1875	37	12	8	204
6, 308	Robinson, William F. (See Brown, John L., assignor.)					
6, 566	Robinson, William H., Yates City, Ill. Railway-rail joint.	July 20, 1875	730	223	8	133
6, 686	Robinson, William P., Buffalo, N. Y. Machine for scouring and decorticating grain.	Dec. 14, 1875	491	162	8	1073
6, 687	Robinson, William T., Huntsville, Tex. Scale-beam.	Oct. 26, 1875	945	307	8	720
165, 031	Robinson, William W. (See Root & Robinson.)	Nov. 2, 1875	251	82	8	768
	Robison, Robert B., Pittsburgh, Pa. Crane.	June 29, 1875	1064	343	7	1107
	Robjohn, Susan A., administratrix. (See Robjohn, Thomas.) (Reissue.)	Nov. 23, 1875	975	305	8	886
	Robjohn, Thomas, deceased, Susan A. Robjohn, administratrix, and assignor to George H. Wooster, New York, N. Y. Apparatus for making fluted ruffles.	Feb. 23, 1875	973	320	7	339
	Robjohn, Thomas, assignor, by mesne assignments, to George H. Wooster, New York, N. Y. Sewing-machine for making band-ruffling.	July 27, 1875	1050	323	8	189
	Robjohn, Thomas, assignor, by mesne assignments, to George H. Wooster, New York, N. Y. Sewing-machine for making band-ruffles.	Oct. 5, 1875	230	75	8	596
	Robbing, Mathias, assignor of one-half interest to Peter Robbing, Scranton, Pa. Boot and shoe.	Oct. 5, 1875	231	75	8	596
		Sept. 21, 1875	625	200	8	512

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 545	Robling, Peter. (See Robling, Mathias, assignor.)	Mar. 9, 1875	273	93	7	397
8, 719	Robson, Joseph, Osceola, Wis. Weed-cutter and hiller.	Oct. 19, 1875			8	645
164, 103	Roby, William H., East Cambridge, Mass. Candlestick. (Design.)	June 8, 1875	257	88	7	977
169, 481	Same. Glass picture-frame.					
161, 441	Rochevot, George, Buffalo, and Friedrich Schmidt, New York, N. Y. Floor for refrigerating houses.	Nov. 2, 1875	144	47	8	755
162, 311	Rochow, Ferdinand, Brooklyn, N. Y. Hydraulic engine.	Mar. 30, 1875	1135	366	7	535
164, 332	Same. Hydraulic hoisting-apparatus.	Apr. 20, 1875	666	217	7	676
164, 485	Same. Nail-feed attachment for nailing-machines.	June 8, 1875	465	154	7	1004
164, 486	Same. Sugar-cutting machine.	June 15, 1875	621	201	7	1033
164, 767	Same. same.	June 15, 1875	623	201	7	1033
159, 455	Same. same.	June 22, 1875	879	287	7	1077
165, 759	Rock, Adolphe, New Orleans, La. Process and apparatus for separating and collecting tufted fiber from cotton-seed hulls.	Feb. 2, 1875	193	65	7	212
165, 617	Rock, Oliver, Hudson, Mass. Sash-holder.	July 20, 1875	614	189	8	118
165, 873	Rockstroh, Francis E., assignor of one-half interest to John N. Foss and Charles Ho-mer, Baltimore, Md. Lard-cooler.	July 13, 1875	474	{ 144 } 145	8	82
162, 254	Rockwell, Robert N., Glenwood, Iowa. Windmill.	July 20, 1875	731	223	8	133
171, 633	Rockwood, Loring O., Ottawa, Ill. Gang-plow.	Apr. 20, 1875	616	{ 200 } 201	7	670
167, 473	Same. Cider-press.	Dec. 28, 1875	977	316	8	1104
165, 257	Rodden, William H., Toronto, Canada. Marking-pot.	Sept. 7, 1875	80	25	8	418
163, 258	Roddick, Thomas, Stranraer, Scotland. Oil-can.	July 6, 1875	106	31	8	23
166, 556	Rodenhausen, Leonhard, Philadelphia, Pa. Hub for vehicle-wheels.	May 11, 1875	501	163	7	819
161, 279	Rodes, Tyree, assignor to self and T. A. Atchison, Wales Station, Tenn. Means for raising water into railway-tanks.	Aug. 10, 1875	358	110	8	258
161, 903	Rodgers, Alexander, Muskegon, Mich. Head-block for saw-mills.	Mar. 23, 1875	968	{ 316 } 317	7	506
163, 259	Same. Machine for moving logs.	Apr. 13, 1875	288	97	7	621
171, 173	Same. Saw-mill.	May 11, 1875	502	163	7	820
164, 039	Same. same.	Dec. 14, 1875	492	{ 162 } 163	8	1073
169, 482	Rodier, Peter, Detroit, Mich. Skate.	June 1, 1875	172	61	7	954
161, 354	Roe, Cyrenius C., Hamilton, Canada. Mode of uniting the ends of belting.	Nov. 2, 1875	144	47	8	755
165, 874	Roe, David E., Ayer, Mass. Fly-trap.	Mar. 30, 1875	1053	343	7	525
171, 634	Roe, Orville V., Chico, Cal. Washing-machine.	July 20, 1875	732	224	8	133
170, 401	Roe, William H. (See Cook, Joseph C., assignor.)					
164, 939	Roebing, Ferdinand W., Trenton, N. J., assignor to John A. Roebling's Sons. Wire-rope.	Dec. 28, 1875	978	317	8	1105
165, 950	Roebing's Sons, John A. (See Roebing, Ferdinand W., assignor.)					
169, 731	Roelofs, Anthony, Philadelphia, Pa. Window-shade roller.	Nov. 23, 1875	1007	336	8	898
169, 294	Roemer, William, Newark, N. J. Catch-plate for bag-locks.	June 29, 1875	1064	343	7	1107
	Same. Traveling-bag.	July 27, 1875	819	251	8	157
	Same. Chain-link.	Nov. 9, 1875	410	130	8	796
	Roepper, Charles W., et al. (See Detwiller, Henry J., assignor.)					
	Roose & Co., Charles. (See Peters, Charles, assignor.)					
	Roettger, William C. A., Brussels, Belgium. Manufacture of artificial marble.	Oct. 26, 1875	945		8	720
	Roff, Curtis T., et al. (See Mackrell, William S., assignor.)					
	Roff, E. W. (See Heinicke, Hermann, assignor.)					
	Rogers, Ambler J. (See Edwards & Rogers.) (Reissue.)					
	Rogers & Brothers, C. (See Burr, Russell H., assignor.) (Design.)					
	Same. (See Mackay, John R., assignor.) (Design.)					
	Same. (See Rogers, Cephas B., assignor.) (Design.)					
	Same. (See Rogers, Gilbert, assignor.) (Design.)					
8, 690	Rogers, Calvin B. (See Gladding, George S., assignor.)					
8, 765	Rogers, Cephas B., assignor to C. Rogers & Brothers, West Meriden, Conn. Coffin-screw.	Oct. 5, 1875			8	561
160, 281	Same. Coffin-plate.	Nov. 2, 1875			8	729
171, 046	Rogers, Charles E., assignor to Rogers Upright Piano Company, Boston, Mass. Upright-piano action.	Mar. 2, 1875	22	9	7	352
171, 047	Same. same.	Dec. 14, 1875	365	121	8	1006
164, 216	Same. Stringing and tension device for piano-fortes.	Dec. 14, 1875	366	122	8	1007
161, 442	Rogers, Charles J., Norwich, Conn. Soldering-iron heater.	June 8, 1875	352	121	7	990
8, 327	Rogers, David. (See Carroll, Rogers & Foster.)					
8, 709	Rogers, Edwin. (See Gamewell, Crane & Rogers.)					
	Rogers, George W., Lake City, Minn. Adjustable ventilating-register.	Mar. 30, 1875	1137	366	7	535
	Rogers, Gilbert, assignor to C. Rogers & Brothers, West Meriden, Conn. Coffin-handle socket.	May 11, 1875			7	783
	Same. Coffin-handle tip.	Oct. 11, 1875			8	600
159, 220	Rogers, H. A. (See Livingstone, William, assignor.)					
	Rogers, Homer. (See Moore, Stephen, assignor.)					
	Same. (See Moore, Stephen and George F., assignors.)					
8, 181	Rogers, Homer, assignor to self and Stephen Moore, Sudbury, Mass. Manufacture of counter-stiffeners for boots and shoes.	Jan. 26, 1875	847	277	7	163
8, 182	Rogers, James. (See Brownback, March, Rogers & Towers.) (Design.)	Mar. 2, 1875			7	345
8, 720	Rogers, John, New York, N. Y. Statuary. (Design.)	Mar. 2, 1875			7	345
8, 879	Same. same. (Design.)	Oct. 19, 1875			8	645
	Same. Group of statuary. (Design.)	Dec. 28, 1875			8	1076
164, 487	Rogers, John F. (See Miller, Rogers & Force.)					
8, 550	Rogers, John G., Victoria, Mo. Car-coupling.	June 15, 1875	624	202	7	1034
167, 123	Rogers, John K., Brookline, Mass. Printing-type. (Design.)	Aug. 3, 1875			8	194
169, 194	Rogers, John S., Gloucester, Mass. Process of extracting gelatine from salted fish-skins.	Aug. 24, 1875	920		8	355
170, 116	Same. Drying-apparatus.	Oct. 26, 1875	851	278	8	708
166, 148	Rogers, Lewis H., South Avon, N. Y. Hinge.	Nov. 16, 1875	782	249	8	852
163, 888	Rogers, Louis P., Boston, Mass. Fire-proof floor.	July 27, 1875	1010	311	8	184
170, 302	Rogers, Matthias, Phillipsport, N. Y. Wooden house.	June 1, 1875	44	15	7	936
	Rogers, Robert, Mount Vernon, Ohio, assignor to Timothy Rogers. Iron fence.	Nov. 23, 1875	977	{ 305 } 306	8	866
161, 280	Rogers, Timothy. (See Rogers, Robert, assignor.)					
164, 876	Rogers Upright Piano Company. (See Rogers, Charles E., assignor.)					
	Rogers, Willard A., assignor to American Cable Screw Wire Company, Boston, Mass. Nail blank or strip for pegging-machines.	Mar. 23, 1875	970	317	7	506
	Rogers, William, Leechburgh, assignor to self and Thomas J. Burchfield, Allegheny, Pa. Apparatus for supplying gas as a fuel to metallurgic furnaces.	June 22, 1875	987	{ 318 } 319	7	1090

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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170, 900	Rogers, William P., Akron, Ohio. Swing.....	Dec. 7, 1875	215	74	8	979
169, 295	Rogerson, Samuel, assignor to Louis Dryfoos, New York, N. Y. Embossing-machine.....	Oct. 26, 1875	947	307	8	721
8, 054	Rohrer, John B., assignor to Samuel Cooper, John Hall, and Joseph B. Cooper, Philadel- phia, Pa. Lounge..... (Case C. Design).....	Feb. 9, 1875	.....	.....	7	223
8, 055	Same..... (Case D. Design).....	Feb. 9, 1875	.....	.....	7	223
	Rohrman, J. Hall, et al. (See Wright, Caleb, assignor.)					
	Rohrman, Joseph B., et al. (See Wright, Caleb, assignor.)					
169, 042	Roland, Henry W., London, Ohio. Machine for shrinking tires.....	Oct. 19, 1875	694	229	8	678
160, 236	Roland, Thomas R., Burlington, Iowa. Ironing-table.....	Feb. 23, 1875	952	312	7	336
	Rolfe, William H. (See Wilson & Rolfe.)					
167, 198	Rolland, Nestor, and Jean F. Van Hoorde, Hensies, Belgium. Wheelbarrow.....	Aug. 31, 1875	1011	314	8	374
161, 061	Rollason, Alfred, and James Brown, Lowell, Mass. Shuttle for looms.....	Mar. 23, 1875	755	249	7	479
8, 567	Rollhaus, Philip, jr., Brooklyn, N. Y. Fire-place heater..... (Design).....	Aug. 17, 1875	.....	.....	8	281
166, 300	Same.....	Aug. 3, 1875	105	33	8	214
162, 693	Rollings, John H., Brooklyn, N. Y. Piston-packing.....	Apr. 27, 1875	1044	333	7	732
8, 784	Romadka, Anthony V., Milwaukee, Wis. Metal sheet for covering trunks..... (Design).....	Nov. 9, 1875	.....	.....	8	777
169, 296	Same..... Trunk.....	Oct. 26, 1875	948	307	8	721
163, 028	Romadka, Antony V., Milwaukee, Wis. Trunk-fastener.....	May 11, 1875	292	94	7	793
167, 024	Romadka, Antony V., assignor to Romadka Brothers, Milwaukee, Wis. Trunk.....	Aug. 24, 1875	826	257	8	342
	Romadka Brothers. (See Romadka, Antony V., assignor.)					
169, 923	Roman, Henry, Brompton, England, assignor to Wilberforce, Arthur C., Frederick C., and Theodore H. Bryant. Automaton box for matches, &c.....	Nov. 16, 1875	612	190	8	829
	Ronan, Anson G. (See Bunnell & Ronan.)					
	Roney, James B. (See Tayman, Benjamin F., assignor.)					
159, 711	Rood, Samuel R., Montello, Wis. Adjustable holdback.....	Feb. 9, 1875	442	148	7	254
168, 418	Rooney, Jack, Fairfield, Vt. Butter-worker.....	Oct. 5, 1875	89	31	8	577
	Rooney, Patrick G. (See Beard, David P., assignor.)					
164, 040	Roos, August, New York, N. Y. Beer-cooler.....	June 1, 1875	174	62	7	955
	Roosevelt, Hilborne L. (See Leclanchi, George L., assignor.)					
171, 428	Roosevelt, Lillian, Hempstead, Tex. Sewing-machine thread-guard.....	Dec. 21, 1875	752	247	8	1066
170, 117	Root, Augustine, Taunton, Mass. Sieve.....	Nov. 16, 1875	783	249	8	852
162, 952	Root, Dexter A., South Bay City, Mich. Combination-padlock.....	May 4, 1875	201	65	7	773
169, 847	Root, Gardner B., and William W. Robinson, Ripon, Wis. Mill-spindle.....	Nov. 9, 1875	530	166	8	810
163, 260	Root, John B., New York, N. Y. Apparatus for dissolving and crystallizing.....	May 11, 1875	503	164	7	820
171, 174	Same..... Steam-engine.....	Dec. 14, 1875	493	163	8	1023
171, 175	Same..... Condenser.....	Dec. 14, 1875	493	163	8	1023
165, 951	Root, Judson E., Westfield, N. Y. Folding table.....	July 27, 1875	820	251	8	157
166, 301	Root, Lawrence O., Minneapolis, Minn. Safety-runner for railway-cars.....	Aug. 3, 1875	106	33	8	214
171, 581	Same..... Runner for railway-cars.....	Dec. 28, 1875	912	298	8	1096
6, 580	Root, S. Emerson, Bristol, Conn. Clock-dial..... (Reissue).....	Aug. 3, 1875	266	79	8	236
	Roper, Alfred W., et al. (See Andrews, Edwin F., assignor.)					
170, 493	Ropes, Arthur, Montpelier, Vt. Child's carriage.....	Nov. 30, 1875	1164	367	8	921
160, 353	Roquemore, Peter D., Panola County, Tex. Cultivator.....	Mar. 2, 1875	86	31	7	361
	Rorbach, John. (See Hall, Joseph, assignor.)					
159, 358	Rorick, John C., Wauseon, Ohio. Butter-worker.....	Feb. 2, 1875	107	37	7	199
163, 610	Same..... Butter-coloring compound.....	May 25, 1875	862	.....	7	890
166, 813	Same..... Apparatus for tempering butter.....	Aug. 17, 1875	610	189	8	303
169, 043	Rosback, Frederick P., Springfield, Mo. Grain-binder.....	Oct. 19, 1875	695	229	8	678
169, 297	Rosborg, Christian, and Anton Kawan, New York, N. Y. Wooden box.....	Oct. 26, 1875	949	307	8	721
170, 018	Rose, Benjamin, Cleveland, Ohio. Singeing-furnace.....	Nov. 16, 1875	691	217	8	840
	Rose, Benoni S. (See Rose, Cartwright & Rose.)					
170, 771	Rose, Carl, New York, N. Y. Hide-scouring machine.....	Dec. 7, 1875	108	34	8	964
160, 718	Rose, Charles P., Allentown, Pa. Curtain-fixture.....	Mar. 9, 1875	425	141	7	418
6, 212	Rose, Clemens B., Sunderland, assignor, by mesne assignments, to Miller's Falls Manu- facturing Company, Miller's Falls, Mass. Bit-stock..... (Reissue).....	Jan. 5, 1875	196	66	7	36
161, 443	Rose, George P., and Abel Cartwright, Slocumville, and Benoni S. Rose, La Fayette, R. I. Let-off mechanism for looms.....	Mar. 30, 1875	1137	367	7	535
6, 473	Rose, Israel M., Brook Haven, assignor, by mesne assignments, to Joseph J. West, New York, N. Y. Embroidering attachment for sewing-machines..... (Reissue).....	June 1, 1875	218	76	7	960
166, 303	Rose, Israel M., Brook Haven, assignor to Joseph I. West, New York, N. Y. Feeding- device for sewing-machines.....	Aug. 3, 1875	106	33	8	214
170, 596	Rose, Reuben M., Williamsburgh, N. Y. Machine for embroidering fabrics.....	Nov. 30, 1875	1266	398	8	933
163, 331	Rose, Walter L., Wadesborough, N. C. Bale-tie.....	May 18, 1875	591	189	7	848
159, 221	Rosebrook, John M., assignor to Walter A. Wood Mowing and Reaping Machine Com- pany, Hoosick Falls, N. Y. Means for connecting gear-wheels with their shafts for use in harvesting-machines.....	Jan. 26, 1875	848	277	7	163
165, 368	Same..... Harvester.....	July 6, 1875	205	62	8	37
	Rosebrooks, John M. (See Wood, Bowhay & Rosebrooks.)					
	Rosenbaum, M., et al. (See Burrows, William T., assignor.)					
162, 953	Rosenbusch, Andrew, assignor of one-half interest to Theodore W. Kreitz, Quincy, Ill. Fire-alarm telegraph.....	May 4, 1875	202	66	7	774
168, 673	Rosenfeld, Louis, New York, N. Y. Inkstand-base.....	Oct. 11, 1875	349	114	8	622
	Rosenstein, Leo. (See Feder & Rosenstein.)					
164, 041	Rosenstjerna, Anders, assignor of one-fourth interest to Lauritz Foss, Chicago, Ill. Letter-box.....	June 1, 1875	175	62, 63	7	955
159, 969	Rosenthal, Gustav, Rochester, N. Y. Reflector.....	Feb. 16, 1875	698	232	7	293
159, 846	Rosenthal, Henry A., Brooklyn, N. Y. Pigeon-starter.....	Feb. 16, 1875	584	194	7	277
161, 158	Rosenthal, Isidore, New York, N. Y. Apparatus for stamping patterns.....	Mar. 23, 1875	851	278	7	490
170, 901	Rosenthal, Morris, Philadelphia, Pa. Cigar.....	Dec. 7, 1875	215	75	8	980
162, 499	Rosquist, George, New York, N. Y., assignor to Bullock Printing Press Company. Machine for wetting printing-paper.....	Apr. 27, 1875	872	279	7	710
164, 877	Ross, Abbott Q., Cincinnati, Ohio. Road-rammer.....	June 22, 1875	989	319	7	1090
164, 042	Ross, Ayres, Victor, Iowa. Harrow.....	June 1, 1875	176	63	7	955
164, 217	Ross, Charles E., Lincoln, Ill. Washing-machine.....	June 8, 1875	353	121	7	990
162, 421	Ross, George O., Marion, Ohio. Farm-gate.....	Apr. 20, 1875	776	252	7	689
164, 596	Same..... Railway-rail chair.....	June 15, 1875	714	233	7	1047
161, 553	Ross, James M., assignor to Mary C. Ross, Morrisonville, Ill. Feed-regulator.....	Mar. 30, 1875	1244	400	7	550
161, 552	Ross, John T., Philadelphia, Pa. Trimming.....	Mar. 30, 1875	1244	400	7	549
6, 285	Ross, John W., assignor of one-half interest to Joseph W. Hunt, Delphos, Ohio. Water- wheel..... (Reissue).....	Feb. 9, 1875	477	160	7	259
	Ross, Joseph W. (See Adams, Samuel, assignor.)					
161, 444	Ross, Josiah, Buffalo, N. Y. Wood-planing machine.....	Mar. 30, 1875	1138	367	7	535
	Ross, Mary C. (See Ross, James M., assignor.)					
165, 258	Ross, Milton, San José, Cal. Vineyard-plow.....	July 6, 1875	107	32	8	23

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169, 298	Ross, William F., Davenport, Iowa. Heating-stove.....	Oct. 26, 1875	950	308	8	721
160, 282	Rossengren, Frank, Chicago, Ill. Vapor-burner for cooking-stoves.....	Mar. 2, 1875	23	9	7	352
159, 280	Rosser, Thomas L., Minneapolis, Minn. Canal-lock.....	Feb. 2, 1875	34	12	7	189
	Rosser, William H. (See Garth & Rosser.)					
162, 500	Rost, Julius, Allegheny, Pa. Wrench.....	Apr. 27, 1875	873	279	7	710
166, 412	Rote, John F., Reading, Pa. Egg-beater.....	Aug. 3, 1875	215	65	8	229
	Rote, R. O. (See Castle, William H., assignor.)					
167, 692	Roth, Charles F., and Elihu G. Barker, Winterset, Iowa. Rotary engine.....	Sept. 14, 1875	286	91	8	454
165, 510	Roth, Elias, New Oxford, Pa. Window-frame.....	July 13, 1875	377	112	8	68
	Roth, Gustav H. (See McNaughton, George, assignor.)					
166, 413	Roth, John, assignor to Stewart & Young, Duncannon, Pa. Apparatus for fish-culture..	Aug. 3, 1875	216	65	8	229
	Rothschild, Samuel, jr. (See Hagerty, Thomas, assignor.)					
8, 835	Rothschild, Victor H., New York, N. Y. Shirt-front..... (Design) ..	Dec. 7, 1875			8	946
	Roudebush, George S. (See Jordan, William A., assignor.)					
170, 303	Rouillion, Octave A. A., Brooklyn, N. Y. Electric gas-lighter.....	Nov. 23, 1875	978	306	8	886
164, 333	Roullier, Charles M., Paris, France. Floor-mat.....	June 8, 1875	466	154	7	1004
160, 237	Rounds, George F., assignor of one-third interest to H. W. Brown, Benton Harbor, Mich. } Windmill.....	Feb. 23, 1875	952	{ 312 313 }	{ 7 7 }	{ 336 336 }
	Rounds, Richard A. (See Culham, Francis, assignor.)					
165, 952	Rounds, Thomas W., assignor of one-half interest to John B. Humphreys, Providence, R. I. Apparatus for the manufacture of bayonet-sabbards.....	July 27, 1875	821	252	8	157
165, 953	Same..... Bayonet-sabbard.....	July 27, 1875	822	252	8	157
160, 283	Rounds, William H., Brockton, assignor to Shoe Manufacturing Company, Boston, Mass. Machinery for trimming the heels of boots and shoes.....	Mar. 2, 1875	24	9, 10	7	352
	Rounselle, William, et al. (See Nott, Aaron B., assignor.)					
161, 904	Rouse, George L., and Marshall W. Stoddard, Cincinnati, Ohio. Hub for vehicle-wheels.	Apr. 13, 1875	288	97	7	621
	Rouse, Wilford I. (See Conner & Rouse.)					
169, 483	Roush, David J., Syracuse, Ohio. Potato-digger.....	Nov. 2, 1875	145	47	8	755
160, 033	Roush, Francis M., Massillon, Ohio. Portable stirrer for cooking-vessels.....	Feb. 23, 1875	779	257	7	311
166, 557	Rousseau, David, assignor, by mesne assignments, to William F. Smith and Samuel Samuels, New York, N. Y. Electric railway-signal.....	Aug. 10, 1875	358	111	8	258
166, 558	Same..... Circuit-closer for railway-signals.....	Aug. 10, 1875	361	111	8	258
166, 559	Same..... Electric railway-signal.....	Aug. 10, 1875	363	111	8	258
168, 185	Same..... Electric circuit-breaking clock-work.....	Sept. 28, 1875	775	246	8	539
159, 120	Row, George W. E., Steele's Tavern, Va. Car-coupling.....	Jan. 26, 1875	757	249	7	150
165, 760	Row, John W., assignor of two-thirds interest to Edwin C. Nogel and Peter W. Himelreich. Cheese-cutter.....	July 20, 1875	615	189	8	118
167, 124	Rowbotham, John, assignor to William Rowbotham, Philadelphia, Pa. Kindling-wood bale.....	Aug. 24, 1875	921	287	8	355
	Rowbotham, William. (See Rowbotham, John, assignor.)					
161, 554	Rowe, Charles T., Brooklyn, N. Y. Clothes-frame.....	Mar. 30, 1875	1245	400	7	550
164, 398	Rowe, David, Louisiana, Mo. Safety switch-rod.....	June 15, 1875	544	178	7	1023
	Rowe, Ebenezer B. (See Dufour & Rowe.)					
163, 889	Rowe, Horace E., Brockville, Canada. Feather-renovator.....	June 1, 1875	45	15	7	936
161, 555	Rowe, John L., New York, N. Y. Truss.....	Mar. 30, 1875	1246	401	7	550
164, 768	Rowe, S. B., jr. (See Bettys, Freeman H., assignor.)					
	Rowe, William H., assignor of one-half interest to Quinton Corwine, Washington, D. C. Showering attachment to bath-tubs.....	June 22, 1875	879	287	7	1077
165, 125	Same..... Wood for vehicles.....	June 29, 1875	1222	393	7	1129
	Rowe, William S. (See Phinney, Smith H., assignor.)					
	Rowell & Morris. (See Rowell, Guilford D., assignor.)					
170, 019	Rowell, George W., Mount Upton, N. Y. Coupling.....	Nov. 16, 1875	691	217	8	840
160, 546	Rowell, Guilford D., assignor to Rowell & Morris, Appleton, Wis. Wheel for harvesters.	Mar. 9, 1875	274	93	7	397
160, 547	Same..... Slip-teeth for seeders.....	Mar. 9, 1875	275	93	7	397
162, 578	Rowell, Samuel, Amesbury, Mass. Wagon-body.....	Apr. 27, 1875	936	301	7	718
8, 667	Rowland, Charles, New York, N. Y. Fan..... (Case A. Design) ..	Sept. 28, 1875			8	520
8, 668	Same..... same..... (Case B. Design) ..	Sept. 28, 1875			8	520
8, 808	Same..... Paper-weight..... (Design) ..	Nov. 23, 1875			8	862
158, 651	Rowland, Charles, New York, N. Y., and Joseph G. Rowland, Quincy, Ill. Water-proof pad for copying-presses.....	Jan. 12, 1875	282	94	7	63
163, 029	Same..... Copying-press pad.....	May 11, 1875	293	95	7	793
167, 411	Rowland, Charles, New York, N. Y., assignor to Oseola C. Green, Washington, D. C. Napkin-holder.....	Sept. 7, 1875	30	9	8	410
6, 298	Rowland, Charles and Joseph G., Quincy, Ill., assignors, by mesne assignments, to Benjamin F. Sturtevant, Boston, Mass. Peg or sole-fastening... (Reissue) ..	Feb. 16, 1875	741	246	7	298
6, 299	Same..... Machine for making compressed peg-strips..... (Reissue) ..	Feb. 16, 1875	741	246	7	298
165, 954	Rowland, David, Pittsburgh, Pa. Reciprocating churn.....	July 27, 1875	822	252	8	157
160, 617	Rowland, Fletcher S., Chaplin, Ky. Windlass.....	Mar. 9, 1875	335	113	7	406
165, 618	Rowland, James D., assignor of one-half interest to Henry Hamley, Cleveland, Ohio. Firemen's extension-ladder.....	July 13, 1875	477	145	8	83
6, 234	Rowland, James L., New York, N. Y. Manufacture of artificial stone..... (Reissue) ..	Jan. 12, 1875	405	136	7	80
160, 284	Same..... Window-sill.....	Mar. 2, 1875	25	10	7	352
	Rowland, Joseph G. (See Rowland, Charles and Joseph G.)					
	Same..... same..... (Reissue) ..					
167, 359	Rowland, William S., Plumville, Pa. Harrow.....	Aug. 31, 1875	1149	361	8	394
162, 103	Rowley, Amos E., Corning, N. Y. Car-coupling.....	Apr. 13, 1875	455	151	7	643
6, 656	Rowley, Burdett L., New Britain, Conn. Bit for bridles..... (Reissue) ..	Sept. 21, 1875	667	212	8	516
160, 957	Rowley, Edwin A., Williamsport, Pa. Machine for relishing tenons.....	Mar. 16, 1875	659	215	7	456
	Rowley, Edwin H. (See Curtis & Rowley.)					
165, 955	Rowley, Helen M., Van Wert, Ohio. Mask for medical purposes.....	July 27, 1875	823	253	8	157
	Rowley, Richard. (See Venners & Rowley.)					
	Roxbury Carpet Company. (See Barrett, Joseph, assignor)..... (Design) ..					
	Same..... (See Goetze, Heinrich F., assignor)..... (Design) ..					
	Same..... (See Libert, Joseph C. G., assignor)..... (Design) ..					
	Same..... (See Martin, Arthur, assignor)..... (Design) ..					
	Same..... (See Stearns, Thomas J., assignor)..... (Design) ..					
	Roy, John S. (See Smith & Roy.)					
6, 776	Roy, Joseph, Philadelphia, Pa. Horseshoe-nail machine..... (Reissue) ..	Nov. 30, 1875	1327	419	8	942
169, 044	Roy, Joseph, Chicago, Ill. Horseshoe-nail machine.....	Oct. 19, 1875	696	230	8	678
169, 045	Roy, Joseph, Philadelphia, Pa. Machine for forging nails.....	Oct. 19, 1875	698	230	8	678
167, 570	Royer, Louis C., Royerton, Ind. Grain-separator.....	Sept. 7, 1875	167	53	8	430
160, 958	Royer, Reuben R., Ephrata, Pa. Water-wheel.....	Mar. 16, 1875	660	215	7	456
	Royer's Ford Iron Foundry. (See Reagan, William J., assignor.)					
160, 285	Royle, George, Buffalo, N. Y. Door-check.....	Mar. 2, 1875	26	10	7	352
	Roys, Franklin. (See Turnbull & Frost, assignors.)					

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	Rubber Step Manufacturing Company. (See Keene, George A., assignor).... (Reissue.)					
	Rubber Tip Pencil Company. (See Blair, John B., assignor)..... (Reissue.)					
161, 159	Rubens, Morris. (See Blank, Bart M. J., assignor.)					
167, 410	Rubens, Morris, New York, N. Y. Pocket-book fastening	Mar. 23, 1875	852	278	7	491
	Ruddick, William H., Boston, Mass. Apparatus for obtaining tar from sea-weed.....	Sept. 7, 1875	29	8	8	410
	Rude, George W. (See Rude, John R., Squire B., and George W.)					
170, 902	Rude, John R., Squire B., and George W., Liberty, Ind. Corn-drill	Dec. 7, 1875	216	75	8	980
	Rude, Squire B. (See Rude, John R., Squire B., and George W.)					
160, 618	Rudy, Daniel, Circleville, Ohio. Clay-pulverizer	Mar. 9, 1875	336	113	7	406
165, 180	Rueane, Edward, Rutland, Vt. Railway-car ventilator	July 6, 1875	37	11	8	13
161, 706	Ruff, Alexander D., Owingsville, Ky. Chuck for making swelled tenons.....	Apr. 6, 1875	98	34	7	583
	Ruger & Co., J. W. (See Ruger & Hill, assignors.)					
	Ruger, Augustus. (See Hill & Ruger.)					
	Ruger, Augustus, et al. (See Hill, George J., assignor.)					
	Ruger, Augustus. (See Ruger, James W. and Augustus.)					
	Ruger, James W. (See Hill & Ruger, assignors.)					
	Ruger, James W., et al. (See Hill, George J., assignor.)					
168, 531	Ruger, James W., Buffalo, N. Y. Cracker-machine.....	Oct. 5, 1875	192	63	8	591
163, 332	Ruger, James W., and George J. Hill, assignors to J. W. Ruger & Co., Buffalo, N. Y.					
	Mechanism for cutting and sugaring crackers.....	May 18, 1875	591	189	7	848
165, 875	Ruger, James W. and Augustus, Buffalo, N. Y. Cracker-machine	July 20, 1875	732	224	8	133
	Rugg, Henry H. (See Fisk, Asa J., assignor.)					
140, 452	Rugg, Nathaniel, Richmond, Mich. Potato-digger	Nov. 30, 1875	1126	355	8	915
164, 104	Ruggles, George R. J., Milford, Mass. Shoemaker's knife	June 8, 1875	258	88	7	977
167, 545	Ruh, Sol, Grand Junction, Iowa. Loom for weaving matting	Sept. 7, 1875	146	45	8	426
167, 125	Ruhl, Fred. A., Stockton, Cal. Lift-pump valve.....	Aug. 24, 1875	921	237	8	355
160, 719	Rukgabee, Charles B., and Horace Clarke, Mount Pleasant, Iowa. Fly-trap	Mar. 9, 1875	426	142	7	418
	Rulon, John H. (See Rulon, Thomas D., assignor.)					
166, 414	Rulon, Thomas D., assignor of one-half interest to John H. Rulon, Philadelphia, Pa.					
	Car-axle-box bearing.....	Aug. 3, 1875	217	65	8	229
165, 511	Rumeus, Charles, Indianapolis, Ind. Ironing-table.....	July 13, 1875	378	112	8	68
	Rumley, Charles. (See Reeves, George P., assignor.)					
170, 304	Rumley, Charles, Helena, Mont. Blow-pipe.....	Nov. 23, 1875	978	306	8	886
163, 695	Rummig, Johann A., New York, and Christoph J. Uderitz, Williamsburgh, N. Y. Fare-					
	register	May 25, 1875	928	295	7	899
	Rumpus, Samuel. (See Wagner & Rumpus.)					
	Rumsey, Louis M., et al. (See May, John M., assignor)					
	Rumsey, Moses, et al. (See May, John M., assignor)..... (Reissue.)					
168, 736	Rung, Henry, assignor of one-half interest to Robert Baumgarten, Chicago, Ill. Dia-					
	mond saw for cutting stone.....	Oct. 11, 1875	449	146	8	636
	Runk, Charles M., et al. (See La Rue, Silas H., assignor.)					
	Runyan, William C. (See Arandall & Runyan.)					
161, 281	Rupert, John B., assignor of one-half interest to Columbus H. Allen, New Orleans, La.					
	Rice-cleaning machine	Mar. 23, 1875	971	317	7	506
165, 369	Rupertus, Jacob, Philadelphia, Pa. Revolving fire-arm	July 6, 1875	209	63	8	37
169, 848	Same..... same.....	Nov. 9, 1875	532	166	8	811
163, 261	Ruppenthal, Jacob, Saint Louis, Mo. Hose-coupling	May 11, 1875	505	164	7	820
166, 149	Rush, Alonso, and Fisher Yarbrough, Tyler, Tex. Farm-fence.....	July 27, 1875	1011	311	8	184
159, 281	Russ, Oscar F., Albany, N. Y. Door-latch.....	Feb. 2, 1875	34	13	7	189
167, 693	Russell, Albert, Newburyport, Mass. Capstan.....	Sept. 14, 1875	287	91	8	454
	Russell & Irwin Manufacturing Company. (See Lyon & Parker, assignors.)					
171, 048	Russell, Asa C., assignor to Parley A. Russell, Great Barrington, Mass., and Clinton H.					
	Blake, New York, N. Y. Flock-washing machine.....	Dec. 14, 1875	366	122	8	1007
159, 222	Russell, Charles, Appleton, Wis., and Charles W. Seamans, Aurora, said Russell assignor					
	to John L. Hopkins, Oswego, Ill. Feather-renovator	Jan. 26, 1875	849	278	7	163
161, 556	Russell, Charles, assignor of one-half interest to Edwin Schofield, Worcester, Mass.					
	Shutter-fastener	Mar. 30, 1875	1246	401	7	550
164, 661	Russell, Charles H., and Julius Sax, assignors to Bernhard Ahrens, London, England.					
	Electrical billiard-register	June 22, 1875	785	257	7	1064
	Russell Cutlery Company, John. (See March, Lucas J., assignor)..... (Design.)					
162, 954	Russell, Daniel N., New York, N. Y. Paper vessel.....	May 4, 1875	204	66	7	774
165, 181	Russell, Edmund, Brooklyn, N. Y. Radiator.....	July 6, 1875	38	11	8	14
166, 032	Same..... Gate-valve	July 27, 1875	894	276	8	168
168, 674	Same..... Radiator-tube	Oct. 11, 1875	349	114	8	622
165, 455	Russell, Edward, Davenport, Iowa. Tree-box.....	July 13, 1875	327	96	8	60
	Russell, Edward P. (See Curtis & Russell)					
162, 694	Russell, Edwin, New Haven, Conn. Extension-gasalier..... (Reissue.)	Apr. 27, 1875	1045	333	7	732
167, 474	Russell, Eli W., Ashley, Mo. Sulky-plow.....	Sept. 7, 1875	81	25	8	418
	Russell, Ephraim. (See Willford, Joseph L., assignor.)					
	Russell, George W. (See Bradbury, Charles J., assignor.)					
168, 186	Russell, George W., Lawrence, Mass. Manufacture of pasteboard	Sept. 28, 1875	776	{ 246 } { 247 }	{ 8 }	539
168, 924	Russell, Henry R., Woodbury, N. J., assignor of one-half interest to Isaac S. Russell,					
	New Market, Md. Parallel pliers	Oct. 19, 1875	588	194	8	664
	Russell, Isaac S. (See Russell, Henry R., assignor.)					
166, 226	Russell, Jacob. (See Wike, John, assignor.)					
166, 227	Russell, Jacob, New York, N. Y. Horseshoe	Aug. 3, 1875	38	12	8	204
169, 120	Same..... Pile for horseshoe-blank bars	Aug. 3, 1875	39	13	8	204
	Russell, John H., and George Birner, Milwaukee, Wis. Machine for bending scythe-					
	snaths	Oct. 26, 1875	792	257	8	699
165, 761	Russell, Oscar, Sycamore, Ill. Drier for paint	July 20, 1875	615	.....	8	118
	Russell, Parley A., et al. (See Russell, Asa C., assignor.)					
166, 560	Russell, Perry, Jefferson, Ill. Hay-gatherer.....	Aug. 10, 1875	364	111	8	258
171, 176	Russell, Robert H., Newark, N. J. Mechanical tool	Dec. 14, 1875	494	163	8	1023
164, 044	Russell, William, Cincinnati, Ohio. Die for creasing horseshoes	June 1, 1875	178	63	7	955
161, 282	Russell, William C., Philadelphia, Pa. Ice-pick.....	Mar. 23, 1875	971	317	7	506
	Russell, William G., executor. (See Whiting, William)..... (Reissue.)					
	Russell, William W., et al. (See Dennison, John N., assignor.)					
166, 303	Rust, Oscar, Macon City, Mo. Earth-auger	Aug. 3, 1875	107	34	8	214
169, 590	Ruth, Matthew H., Claiborne Parish, and William Crain, Farmersville, La. Earth-bor-					
	ing apparatus	Nov. 2, 1875	252	82	8	768
161, 160	Rutherford, John, San Francisco, Cal. Amalgamator	Mar. 23, 1875	853	278	7	491
	Rutherford, Robert W., trustee. (See Beattley, Joseph W., assignor.)					
	Same..... (See Gill, Joseph P., assignor.)					

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165, 259	Ruthven, James A. (See Adams, John P., assignor.)	July 6, 1875	107	32	8	23
170, 118	Ruttan, Henry J., Coburg, Canada. Heating-stove.	Nov. 16, 1875	784	249	8	853
160, 619	Ryan, Agnes. (See Bonney, Lydia P., assignor.)	Mar. 9, 1875	337	113	7	406
158, 609	Ryan, George H., assignor to self and Job M. Leonard, Somerset, Mass. Nail-plate feeder.	Jan. 12, 1875	243	82	7	58
160, 720	Ryan, John D., New York, N. Y. Pantaloon-stretcher.	Mar. 9, 1875	427	142	7	418
159, 456	Ryan, Thomas. (See Richmond, Ryan & McGill.)	Feb. 2, 1875	198	65	7	212
160, 960	Ryan, William M., assignor of one-half interest to William M. Lipe and John B. Simpson, Macomb, Ill. Post-hole digger.	Mar. 16, 1875	661	216	7	457
164, 940	Ryberg, Frederick T., New York, N. Y. Bottling-machine.	June 29, 1875	1065	343	7	1107
169, 732	Rydbeck, Svén, Red Wing, Minn. Mortising-machine.	Nov. 9, 1875	411	130	8	796
169, 375	Same. Clamp.	Nov. 2, 1875	54	16	8	742
6, 259	Ryder, Andrew, Oakland, Cal. Train-telegraph.	Jan. 26, 1875	884	287	7	168
167, 126	Same. Coupling for train-telegraphs.	Aug. 24, 1875	922	287	8	355
170, 453	Ryder, Edward P., Brooklyn, N. Y., assignor to Samuel S. White, Philadelphia, Pa. Dental engine.	Nov. 30, 1875	1127	355	8	915
163, 533	Ryder, Henry, Somerville, assignor, by mesne assignments, to James J. Walworth, trustee, Newtown, Mass. Grate for furnaces.	July 6, 1875	108	32	8	23
169, 733	Ryder, Henry, Somerville, Mass. Grate-bar.	May 18, 1875	776	246	7	871
160, 959	Ryder, James F., Cleveland, Ohio. Camera-screen.	Nov. 9, 1875	412	131	8	796
165, 124	Ryder, Joshua H., Brockton, Mass. Machine for polishing the edges of boot and shoe heels.	Mar. 16, 1875	661	216	7	457
6, 349	Ryder, Wilson, Cattaraugus, N. Y. Butter-worker.	June 29, 1875	1221	.....	7	1129
171, 582	Ryer, John, executor. (See Hartley & Marshall, assignors.)	Mar. 23, 1875	1016	331	7	512
170, 494	Ryer, William H., Margarettsville, N. Y. Horse hay-rake.	Dec. 28, 1875	913	299	8	1096
171, 177	Rykert, Alvaro G., assignor to A. R. Miller, Attica, N. Y. Carriage-painter's easel.	Nov. 30, 1875	1165	.....	8	921
171, 532	Rykert, Alvaro G., Attica, N. Y. Tool-holding device.	Dec. 14, 1875	495	.....	8	1023
169, 591	Ryneerson, John, Farmington, Ill., assignor to John H. Elward, Saint Paul, Minn. Harvester-rake.	Dec. 28, 1875	867	.....	8	1089
169, 592	Saatweber, Charles R., New York, N. Y. Loom for weaving fringe.	Nov. 2, 1875	254	.....	8	768
162, 695	Sabin, Charles W., et al. (See Hayes, Cornelius E., assignor.)	Nov. 2, 1875	254	.....	8	768
163, 696	Sacc, Frederic H. L. C., Neufchatel, Switzerland. Process of preserving eggs.	Nov. 9, 1875	533	.....	8	811
160, 843	Same. Preserving hides.	Apr. 27, 1875	1046	334	7	732
171, 245	Same. Process of preserving butter.	May 25, 1875	930	295	7	899
168, 675	Sacc, Frederic H. L. C., Neufchatel, Switzerland. Process for preserving fruit.	Mar. 16, 1875	560	182	7	443
168, 344	Same. Preservation of meats.	Dec. 21, 1875	588	193	8	1044
160, 548	Same. Process of preserving meat.	Oct. 11, 1875	350	114	8	622
166, 415	Safely, John J., Ottumwa, Iowa. Method of elevating vessels for transferring grain.	Oct. 5, 1875	23	9	8	568
170, 495	Safford, James B., assignor of one-half interest to Thomas A. Jebb, Buffalo, N. Y. Toy.	Mar. 9, 1875	275	94	7	397
6, 205	Safford, Mark, Melrose, assignor to self and Percival D. Richards, West Medford, Mass. Loom-shuttle.	Aug. 3, 1875	217	66	8	229
6, 788	Sage, De Witt C., Cromwell, Conn. Drain and sewer pipe.	Nov. 30, 1875	1165	{ 367 } { 368 }	{ 8 }	921
160, 549	Sage, Norton, Pekin, Ill. Wagon-wheel scraper.	Jan. 5, 1875	187	65	7	35
167, 940	Sage, Philip, Dubuque, Iowa. Metallic packing for stuffing-boxes.	Dec. 7, 1875	256	86	8	984
170, 772	Sager, Daniel, Belvidere, Ill. Butter-worker.	Mar. 9, 1875	276	54	7	397
166, 895	Sager, Wellington, Colchester, Vt. Heating and ventilating railway-cars.	Oct. 11, 1875	269	87	8	609
158, 527	Saint, Thomas G., Sharpsburgh, Pa. Clothes-drier.	Sept. 21, 1875	519	166	8	496
166, 228	Saladay, L. (See Gardner, Wilson, assignors.)	Dec. 7, 1875	109	34	8	965
169, 484	Saladee, Cyrus W., Putnam, Ohio, assignor to Hotchkiss Sons, Bridgeport, Conn. Curry-comb.	Aug. 17, 1875	690	213	8	313
165, 929	Saladee, Cyrus W., Pittsburgh, Pa. Vehicle torsional spring.	Jan. 5, 1875	155	52	7	31
167, 025	Salisbury, George P., New Haven, Conn. Roll for rolling metal.	Aug. 3, 1875	39	13	8	204
169, 924	Salisbury, George P., and Charles S. Wells, New Haven, Conn. Device for necking cartridge-shells.	Nov. 2, 1875	147	47	8	755
165, 876	Salisbury, George P., and Charles S. Wells, assignors to Winchester Repeating-Arms Company, New Haven, Conn. Tool for heading cartridge-shells.	June 29, 1875	1136	367	7	1117
170, 305	Salisbury, Leonard B., Mount Vernon, Ill., assignor of one-half interest to Edward F. Winslow, Saint Louis, Mo., and George S. Winslow, Mount Vernon, Ill. Steam-brake for locomotives.	Aug. 24, 1875	826	257	8	342
6, 495	Salisbury, Silas C., New York, N. Y. Gas-regulator.	Nov. 16, 1875	614	190	8	829
6, 608	Salmon, Ira A., Boston, Mass. Automatic dental mallet.	July 20, 1875	733	224	8	134
158, 983	Salomon, Felix, New York, N. Y. Paper box.	Nov. 23, 1875	978	306	8	886
161, 161	Salter, James, Brooklyn, N. Y. Paddle-wheel.	June 22, 1875	1008	326	7	1093
165, 427	Salter, J. T., et al. (See Eichbaum, Frederick H., assignor.)	June 22, 1875	1010	326	7	1093
170, 020	Salzman, Christian H., assignor to self, Andrew Wickey, and Reuben Bertner, Quincy, Ill. Pitman-box for mowing and reaping machines.	Aug. 24, 1875	949	{ 296 } { 297 }	{ 8 }	359
167, 127	Same. Grain-wheel arm for harvesters.	Jan. 19, 1875	609	202	7	123
159, 457	Sammis, John B. (See Leverich, Gabriel, assignor.)	Aug. 17, 1875	611	189	8	303
159, 611	Sample, Jacob R., Liberty, Miss. Plow.	Mar. 23, 1875	854	279	7	491
164, 878	Sampson, Edward C. (See Meyer, Charles T., and Victor E., assignors.) (Design.)	July 13, 1875	295	87	8	56
171, 486	Sampson, William H., Chicago, Ill. Water-pipe.	Nov. 16, 1875	692	218	8	840
159, 458	Sampson, William S., assignor of one-half interest to Homer S. Beardsley, New York, N. Y. Lime kiln.	Aug. 24, 1875	923	288	8	355
166, 814	Same. same.	Feb. 2, 1875	199	65	7	212
161, 161	Same. same.	Feb. 9, 1875	352	116	7	241
165, 427	Same. same.	June 22, 1875	991	319	7	1090
170, 020	Same. same.	Dec. 28, 1875	823	270	8	1084
167, 127	Sanders, George N., New York, N. Y. Spike.	Feb. 2, 1875	199	66	7	212
159, 457	Same. same.					
159, 611	Same. same.					
164, 878	Same. same.					
171, 486	Same. same.					
159, 458	Sanders, Gerome, Martinsville, Ill. Straw-stacker.					

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165, 030	Sanders, John, Gilead, Mich. Windmill.....	June 29, 1875	1137	367	7	1117
164, 771	Sanders, John E., Indianapolis, Ind. Scaffold.....	June 22, 1875	882	288	7	1078
	Sanders, Louis. (See Whitney, Paul, assignor.)					
	Sanders, Thomas, et al. (See Bell, Alexander G., assignor.)					
164, 597	Sanders, William B., Lock Haven, Pa. Polishing or sad iron.....	June 15, 1875	715	233	7	1047
165, 619	Sanderson, Francesco L., Wilmington, Ohio. Hinge.....	July 13, 1875	478	146	8	83
162, 579	Sanderson, Solomon, Huddersfield, England. Alarm and fire-extinguisher.....	Apr. 27, 1875	937	301	7	718
	Sanderson, Thomas. (See Hurd, Seth T., assignor.)					
166, 304	Sandford, Frank V., Chelsea, Mass. Electric gas-lighting apparatus.....	Aug. 3, 1875	108	34	8	215
164, 770	Sandgren, John J., Ironton, Wis. Bob-sled.....	June 22, 1875	881	287	7	1078
158, 391	Sandholzer, Adrian, H., Needham, Mass. Glue-drier.....	Jan. 5, 1875	34	12	7	13
159, 223	Sands, Charles J., Brooklyn, N. Y. Dredging-bucket.....	Jan. 26, 1875	850	278	7	163
167, 790	Same..... Flower-pot.....	Sept. 14, 1875	379	121	8	467
169, 299	Sands, Charles J., assignor of one-half interest to John B. Wood, Brooklyn, N. Y. Dredg- ing-bucket.....	Oct. 26, 1875	951	308	8	721
161, 445	Sandusky, Isaac B., Lexington, Ky. Grain-drill teeth.....	Mar. 30, 1875	1139	367	7	536
158, 984	Sanford, David, Ashton, Ill. Fire-escape ladder.....	Jan. 19, 1875	611	203	7	123
164, 769	Same..... same.....	June 22, 1875	880	287	7	1077
168, 345	Sanford, Edwin L., Pavilion, assignor of one-half interest to Sanford P. Moon, Middle- bury, N. Y. Car-coupling.....	Oct. 5, 1875	23	9	8	568
164, 105	Sanford, Joseph H., assignor to self and Charles F. Sylvester, Brockton, Mass. Key-ring.....	June 8, 1875	258	88	7	977
165, 877	Sanford, Oliver P., assignor to self and Jacob Henry, Dadeville, Ala. Plow.....	July 20, 1875	734	224	8	134
159, 282	Sanford, Stephen, Amsterdam, N. Y. Loom for weaving pile fabrics.....	Feb. 2, 1875	36	13	7	189
159, 847	Same..... Loom for weaving piled fabrics.....	Feb. 16, 1875	585	194	7	278
165, 428	Same..... Loom for weaving pile fabrics.....	July 13, 1875	296	88	8	56
167, 623	Sangster, James, Buffalo, N. Y. Fare-register.....	Sept. 14, 1875	228	71	8	445
163, 108	Sappelt, Robert, Springfield, N. Y. Seed and guano distributor.....	May 11, 1875	363	118	7	802
171, 178	Sardo, Albert E., Washington, D. C., assignor of one-half interest to John A. Ives & Bro., Baltimore, Md. Sheet-delivery apparatus for printing-presses.....	Dec. 14, 1875	496	164	8	1023
164, 772	Sargeant, Abraham V., Newark, N. J. Harness-saddle.....	June 22, 1875	882	288	7	1078
170, 021	Sargeant, Samuel S., Newark, N. J. Harness-rosette.....	Nov. 16, 1875	693	218	8	840
167, 791	Sargent, Charles, Sparland, Ill. Siding-gage.....	Sept. 14, 1875	379	121	8	467
	Sargent, Charles G. (See Calley, Freeman A., assignor.)					
	Sargent, George F. (See Lambie & Sargent.)					
	Sargent, George M. (See Berry, Luther D., assignor.)					
	Sargent, James. (See Hollen, Stephen W., assignor.) (Reissue.)					
161, 283	Sargent, James, Rochester, N. Y. Bolt for safe, vault, and other doors.....	Mar. 23, 1875	972	318	7	506
165, 370	Same..... Lock for safe and vault doors.....	July 6, 1875	210	63	8	37
165, 878	Same..... Time-lock.....	July 20, 1875	735	225	8	134
165, 956	Sarven, James D., Columbia, Tenn. Vehicle-spring.....	July 27, 1875	823	253	8	158
161, 062	Satterlee, George B., New York, N. Y. Water-evaporating refrigerator.....	Mar. 23, 1875	756	249	7	479
169, 300	Satterlee, Le Roy, Rochester, N. Y. Ventilating buildings.....	Oct. 26, 1875	952	308	8	721
159, 459	Sattler, David, Napoleon, Ohio. Farm-fence.....	Feb. 2, 1875	200	66	7	212
161, 557	Same..... Saw-gummer.....	Mar. 30, 1875	1247	401	7	550
170, 119	Saunders, Andrew, assignor to D. Saunders' Sons, Yonkers, N. Y. Threading-die stocks.....	Nov. 16, 1875	786	249	8	853
	Saunders, Charles. (See Walters & Saunders.)					
160, 792	Saunders, Edward M., Saugus, assignor to self and Edward K. Wilson, Newton, Mass. Wagon-cover.....	Mar. 16, 1875	521	168	7	437
171, 049	Saunders, Joseph, Brooklyn, N. Y. Retort for concentrating sulphuric acid.....	Dec. 14, 1875	367	122	8	1007
	Saunders' Sons, D. (See Saunders, Andrew, assignor.)					
160, 238	Sauter, Edward, Birmingham, Conn. Device for turning machine-needle blanks.....	Feb. 23, 1875	953	313	7	336
163, 811	Savage, David, and Hiram Coleman, Orangeville, Pa. Machine for dressing millstones.....	May 25, 1875	1029	326	7	913
171, 321	Savage, Elliot, West Meriden, Conn. Metallurgical furnace.....	Dec. 21, 1875	654	215	8	1052
	Savage, George. (See Vanorder & Savage.)					
162, 104	Savery, Charles C., assignor to Purves & Savery, Philadelphia, Pa. Fluting-iron.....	Apr. 13, 1875	456	152	7	643
161, 707	Savery, Thomas H., Wilmington, Del. Condenser-ferrule.....	Apr. 6, 1875	98	35	7	583
171, 429	Savin, John M., Baltimore, Md. Ticket.....	Dec. 21, 1875	753	248	8	1066
171, 430	Savoral, Edward, New York, N. Y. Toy-pistol, &c.....	Dec. 21, 1875	753	248	8	1066
163, 948	Sawin, James J., Natick, Mass. Manufacture of heels and soles of boots and shoes.....	June 1, 1875	92	31	7	943
168, 585	Sawkins, James N., Philadelphia, Pa. Car-brake.....	Oct. 11, 1875	267	87, 88	8	609
169, 593	Same..... same.....	Nov. 2, 1875	255	82	8	768
166, 940	Sawyer, Charles E., Boston, Mass. Label and tag machine.....	Aug. 24, 1875	744	230	8	330
	Sawyer, Frederick P. (See Parks, Dana, assignor.)					
168, 109	Sawyer, George A., Augusta, Me. Lubricating device.....	Sept. 28, 1875	703	222	8	529
163, 414	Sawyer, James, Freeburgh, Ill. Miner's lamp.....	May 18, 1875	662	211	7	857
	Sawyer, James C. (See Langley, James M., assignor.)					
	Sawyer, Joseph G., et al. (See Pickel, Russel, assignor.)					
165, 689	Sawyer, Joshua, assignor of one-half interest to Edmond W. Cochrane, Northfield, Vt. Wagon-jack.....	July 20, 1875	555	169	8	109
158, 742	Sawyer, Josiah, Tremont, Ill. Hand potato-planter.....	Jan. 12, 1875	358	122	7	74
163, 812	Sawyer, Leonard, Amesbury, Mass. Vehicle-top.....	May 25, 1875	1029	326	7	913
	Sawyer, Lodowick L. (See Buckley & Sawyer.)					
165, 762	Sawyer, Oliver, Winchendon, Mass. Sandpapering-machine.....	July 20, 1875	616	190	8	118
	Sawyer Spindle Company. (See Wright, Daniel, assignor.)					
164, 598	Sawyer, Willard W., Springfield, Mass., assignor to self and George M. Stebbins. Fire- alarm register.....	June 15, 1875	715	233	7	1047
158, 442	Sawyer, William E., Washington, D. C. Automatic or chemical telegraphy.....	Jan. 5, 1875	75	27	7	20
159, 460	Same..... Automatic and autographic telegraph and circuit.....	Feb. 2, 1875	201	66, 67	7	212
165, 620	Sawyer, William E., Washington, D. C. Automatic electric telegraph.....	July 13, 1875	479	146	8	83
166, 305	Same..... Telegraphic circuit.....	Aug. 3, 1875	109	34	8	215
171, 050	Sawyer, William E., New York, N. Y. Copying-telegraph.....	Dec. 14, 1875	368		8	1007
171, 051	Same..... Automatic telegraph.....	Dec. 14, 1875	369	{ 122 123 }	{ 8 8 }	{ 1007 1007 }
159, 771	Sawyer, William H., New York, N. Y. Telegraphic-signal box.....	Feb. 16, 1875	517	172	7	269
171, 322	Sawyer, William K., Three Oaks, Mich. Device for fastening the legs of tables.....	Dec. 21, 1875	655	{ 215 216 }	{ 8 8 }	{ 1052 1052 }
	Sax, Julius. (See Russell & Sax.)					
	Saxby, Stephen D. (See Waddle, Uriah B., assignor.)					
169, 485	Saxton, Oliver H., Washington Court-House, Ohio. Combined cane and whip.....	Nov. 2, 1875	147	48	8	755
168, 053	Sayles, John P., Stockbridge, Mass. Settee.....	Sept. 21, 1875	627	201	8	512
171, 431	Sayre, Benjamin C., Montrose, Pa. Hot-air furnace.....	Dec. 21, 1875	755	248	8	1066
162, 312	Sayre, Charles H., Utica, assignor to self and Albert B. Parker, New York, N. Y. Shovel.....	Apr. 20, 1875	668	218	7	676
	Scaife & Sons, William B. (See Scaife, William B. and Oliver P., assignors.)					
	Scaife, Oliver P. (See Scaife, William B. and Oliver P.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
160, 550	Scaife, Reginald, London, Great Britain. Apparatus for extracting the oleaginous matter from textile material	Mar. 9, 1875	277	94	7	397
6, 391	Scaife, William B., Pittsburgh, Pa. Metallic vessel	Apr. 20, 1875	818	264	7	695
6, 392	Same	Apr. 20, 1875	819	265	7	695
164, 399	Scaife, William B. and Oliver P., assignors to William B. Scaife & Sons, Allegheny, Pa. Machine for corrugating sheet metal	June 15, 1875	544	178	7	1023
167, 412	Scaife, William B. and Oliver P., Allegheny, Pa. Machine for corrugating sheet-metal	Sept. 7, 1875	30	9	8	410
164, 218	Scanlan, Thomas, et al. (See Crockett, Samuel J., assignor.)	June 8, 1875	354	121	7	990
162, 696	Scannell, John, Monroe, Wis. Wagon-box strap	Apr. 27, 1875	1049	334	7	732
168, 676	Scantlin, Thomas, Evansville, Ind. Evaporator for saccharine liquids	Oct. 11, 1875	351	115	8	622
162, 770	Same. Safety oil-reservoir	May 4, 1875	33	11	7	751
163, 890	Scarritt, Josiah A., Columbus, Ohio. Music-teaching apparatus	June 1, 1875	46	15	7	937
159, 772	Scattergood, David, Beverly, N. J. Steering-gear for vessels	Feb. 16, 1875	519	173	7	269
161, 355	Schade, John, Stamford, Conn. Padlock, &c.	Mar. 30, 1875	1054	343	7	525
166, 896	Same. Fastening for bell-pulls, &c.	Aug. 17, 1875	691	214	8	314
8, 279	Schadewald, Henry, Philadelphia, Pa. Fabric for coverlets	Apr. 20, 1875			7	651
167, 941	Schaefer, Louis, Cleveland, Ohio. Hitching-post	Sept. 21, 1875	520	166	8	496
	Schaeffer, Levi, assignor of one-half interest to Theophilus Wagner, Philadelphia, Pa. Roundabout	Dec. 28, 1875	824	270	8	1084
171, 487	Schaeffer, Levi, Philadelphia, Pa. Combined implement	Feb. 2, 1875	37	13	7	190
159, 283	Schaffner, George, Troy, N. Y. Attaching dash-boards	May 11, 1875	511	166	7	821
163, 268	Same. Carriage-door	Apr. 6, 1875	99	35	7	583
161, 708	Schafhaus, John, New York, N. Y. Mash-machine for brewers	Nov. 9, 1875	413	131	8	796
169, 734	Schalck, George, Pottsville, Pa. Wad for rifled guns	May 25, 1875	1030	326	7	913
163, 813	Schall, Michael P. (See Frost, David, assignor.)	Apr. 27, 1875	937	301	7	718
162, 580	Schanck, Ephraim L., Pleasant Mount, Mo. Apple-parer	May 18, 1875	592	190	7	848
163, 333	Schandevyl, Harriet A., East Saugus, Mass. Corset	Jan. 12, 1875	359	122	7	74
158, 743	Schantl, Lewis, Saint Louis, Mo. Coke-oven	Nov. 30, 1875	1267	399	8	934
170, 597	Scharf, Samuel R., Jersey City, N. J. Machine for cleaning privy-vaults	Feb. 2, 1875	208	67	7	213
159, 461	Schartan, Ellert O., and John H. Gardner, New Orleans, La. Bale-tie	Sept. 7, 1875	31	9	8	410
167, 413	Schaschue, Charles, Rondout, N. Y. Machine for hulling grain	Dec. 7, 1875	110	34	8	965
170, 773	Schater, Joseph, Syracuse, N. Y. Ice-cutting machine					
	Schauble, Philipp, and Louis Dohn, Elizabeth, N. J. Shaving-cup					
	Schedler, Robert W. (See Mussgiller & Schedler.)					
166, 897	Scheeler, Jasper, et al. (See Wemyss, Alexander, assignor.)	Aug. 17, 1875	692	214	8	314
	Scheermesser, Christian H., assignor of one-half interest to James H. Percy, Cumberland, Md. Stone-crushing machine	June 8, 1875	354	121	7	990
164, 219	Scheidler, Reinhard, and John H. McNamar, Newark, Ohio. Throttle-valve	Aug. 3, 1875	112	35	8	215
166, 307	Schellinger, Leopold, Mishawaka, Ind. Straw-cutter	Oct. 11, 1875	450	147	8	636
168, 781	Schellkopf, John, Tidioute, Pa. Journal-box	Oct. 19, 1875	589	194	8	664
168, 925	Same. Bull-wheel for oil-wells					
166, 417	Schemmerhorn, John P. (See Bowers, Marcus M., assignor.)	Aug. 3, 1875	220	66	8	230
165, 261	Schenck, George W., assignor to Chauncey E. Brandon, Geneva Lake, Wis. Wheel-cultivator	July 6, 1875	109	32	8	24
161, 063	Schenck, Martin G., Marlborough, N. J. Tire-upsetting machine	Mar. 23, 1875	757	249	7	479
	Schenck, Unico H. W., Worcester, Mass. Folding stool, &c.					
162, 313	Scherb, Francis. (See Doland & Scherb.)	Apr. 20, 1875	668	218	7	677
163, 334	Scherb, Francis, and Frank F. Doland, Sacramento, Cal. Carriage					
	Scherer, Christian. (See Spears, Emanuel, assignor.)					
168, 187	Schermerhorn, Charles, assignor to self and John F. Cleveland, New York, N. Y. Towel-stand	May 18, 1875	593	190	7	848
165, 512	Schermerhorn, George W., East Livingston, Me. Paint-brush handle	Sept. 28, 1875	777	247	8	539
161, 284	Scherr, Henry F., Saint Louis, Mo. Filter	July 13, 1875	378	112	8	68
	Scheumack, Stephen S., Victoria, Tex. Gang-plow	Mar. 23, 1875	973	318	7	506
167, 694	Schick, William H., et al. (See Wemyss, Alexander, assignor.)	Sept. 14, 1875	288	91	8	454
105, 599	Schifferly, Conrad, North Manchester, Ind. Clothes-drier	Mar. 1, 1875			7	387
162, 105	Schillinger, John J., New York, N. Y. Concrete pavement	Apr. 13, 1875	457	152	7	643
166, 898	Schindler, Siegfried S., West Meriden, Conn. Piano-stool	Aug. 17, 1875	692	214	8	314
169, 735	Schirek, Alexander, Rochester, N. Y. Lubricating-axle for vehicles	Nov. 9, 1875	414	131	8	796
8, 363	Schirmer, Herman, Wheeling, W. Va. Inkstand	June 8, 1875			8	968
166, 306	Schlink, Abraham, New York, N. Y. Vase					
	Schlarbaum, Hermann, Clifton, N. Y., assignor to Goodyear's India Rubber Glove Manufacturing Company. Rubber-coated cord and cordage	Aug. 3, 1875	112	34	8	215
162, 194	Schleeter, Frederick. (See Niermann & Schleeter.)					
	Schlenker, Erhard, assignor of one-half interest to Rufus L. and Gibson F. Howard, Buffalo, N. Y. Bolt-threading machine	Apr. 20, 1875	559	183	7	663
162, 195	Same. Safety-guard for hatchways	Apr. 20, 1875	561	184	7	663
166, 722	Same. Internal gearing of elevators	Aug. 17, 1875	530	162	8	291
166, 730	Same. Hoisting-machine or elevator	Aug. 17, 1875	537	165	8	292
162, 771	Schlich, Friedrich, and John Koster, New York, N. Y. Bottle-washing apparatus	May 4, 1875	34	11	7	751
171, 432	Schmackers, Anton, Cincinnati, Ohio. Velocipede	Dec. 21, 1875	756	248	8	1066
6, 482	Schmandt, Charles, assignor of one-half interest to Charles Nittendorff, Baltimore, Md. Boiler-tube cleaner	June 8, 1875	499	164	7	1009
161, 558	Schmandt, Charles, Baltimore, Md. Boiler-tube cleaner	Mar. 30, 1875	1248	401	7	550
167, 695	Schmelzer, John, Cincinnati, Ohio. Refrigerator	Sept. 14, 1875	289	91	8	454
171, 323	Schmemann, Friedrich, Philadelphia, Pa. Iron truss-bridge	Dec. 21, 1875	656	216	8	1052
171, 533	Schmetzer, Louis, Rothenburg-on-the-Tauber, Germany. Toy building-block	Dec. 28, 1875	867	284	8	1089
165, 879	Schmid, Albert, Zurich, Switzerland. Hydraulic motor	July 20, 1875	737	225	8	134
	Schmid, Frank A. (See Fuchslocher & Schmid.)					
	Schmid, Lorenz. (See Rees & Schmid.)					
162, 697	Schmidt, Albert E., Hamburg, assignor to Hamburg Sewing Machine Manufacturing Company, Berlin, Germany. Sewing-machine	Apr. 27, 1875	1050	335	7	732
171, 583	Schmidt, Albert, Brooklyn, N. Y. Clock striking-mechanism	Dec. 28, 1875	914	299	8	1096
163, 262	Schmidt, Albert E., and Gustav J. M. Radbruch, assignors to Hamburg American Sewing Machine Company, Hamburg, Germany. Process of decorating tin-plate	May 11, 1875	505	164	7	820
164, 694	Schmidt, Augustus T., Pittsburgh, Pa. Refining oils	June 22, 1875	815		7	1069
159, 224	Schmidt, Ernst, New York, N. Y. Fan	Jan. 26, 1875	851	278	7	163
	Schmidt, Friedrich. (See Rochevot & Schmidt.)					
168, 788	Schmidt, Friedrich E., Hoboken, N. J. Aerial vessel	Oct. 11, 1875	450	147	8	636
162, 314	Schmidt, Lewis F. C., Pittsburgh, Ill. Bottle	Apr. 20, 1875	669	218	7	677
168, 586	Schmidt, Louis C. A., Tiffin, Ohio. Running-gear	Oct. 11, 1875	270	88	8	609
162, 196	Schmidt, Rudolph, Yonkers, N. Y. Steam-engine valve	Apr. 20, 1875	561	184	7	663
168, 926	Schmidt, Valentine, San Francisco, Cal. Vermin-exterminator	Oct. 19, 1875	589		8	664
	Schmieders, Henry. (See Wiser & Schmieders.)					
163, 415	Schmitt, John, Williamsburgh, N. Y. Car and carriage heater	May 18, 1875	662	212	7	857

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 571	Schmitz, Eloy N., Paris, France. Grate-bar	Sept. 7, 1875	169	53	8	430
158, 528	Schmitz, John P., San Francisco, Cal. Stench-trap	Jan. 5, 1875	156	53	7	31
160, 472	Same.....Preserving apparatus	Mar. 2, 1875	192	66	7	376
169, 046	Schmitz, Theodore, New York, N. Y. Tin vessel.....	Oct. 19, 1875	699	230	8	679
	Schmoele, Charles. (See Schmoele, William F. and Henry, assignors.)					
	Schmoele, Henry, jr. (See Schmoele, William F. and Henry, jr.)					
170, 402	Schmoele, William F. and Henry, jr., assignors of one-third interest to Charles Schmoele, Philadelphia, Pa. Electric music-sheet.....	Nov. 23, 1875	1067	336	8	899
165, 371	Schmolz, William, San Francisco, Cal. Construction of dams	July 6, 1875	211	63	8	37
165, 763	Schnebly, William, Hackensack, N. J. Grain-tally	July 20, 1875	617	190	8	118
165, 031	Schneeloch, Otto, Williamsburgh, N. Y. Breech-loading fire-arm.....	June 29, 1875	1138	367	7	1118
	Schneider, Bennett B. (See Carter, John W., assignor.)					
	Same.....(See Stobwasser, Gustav, assignor.)					
6, 355	Schneider, Bennett B., New York, N. Y. Lamp..... (Reissue) ..	Mar. 30, 1875	1282	412	7	555
167, 128	Same	Aug. 24, 1875	924	288	8	355
167, 792	Same	Sept. 14, 1875	380	122	8	467
169, 301	Schneider, Charles, Newark, N. J. Fluting-machine.....	Oct. 26, 1875	954	309	8	721
164, 941	Schneider, Christian G., Washington, D. C. Catch for cupboards, &c	June 29, 1875	1066	343	7	1108
165, 880	Schneider, Conrad, assignor of one-half interest to John F. Spaulding, Charles City, Iowa. Shingle-gage	July 20, 1875	738	225	8	134
165, 429	Schneider, Ernest H. F., Lawrence, Kans. Washing-machine.....	July 13, 1875	298	88	8	56
	Schneider, Hermann J. (See Hill & Schneider.)					
162, 698	Schneider, John, and Leonard Wilting, assignors to Vincent Grottenthalen, Philadelphia, Pa. Machine for shaping tobacco-pipe bowl	Apr. 27, 1875	1053	335	7	732
158, 744	Schneider, John J., Taylor County, Iowa. Device for attaching presser-feet to their bars.	Jan. 12, 1875	360	123	7	75
161, 446	Schneider, John J., and Alexander S. Meek, Bedford, Iowa. Horse-collar and hame.....	Mar. 30, 1875	1140	367	7	536
168, 054	Same.....Harness-cockeye	Sept. 21, 1875	628	201	8	512
164, 220	Schneider, Louis, Philadelphia, Pa. Umbrella-handle	June 8, 1875	355	122	7	990
170, 022	Schnell, Edward H., South Norwalk, Conn. Recording and signal fare-box.....	Nov. 16, 1875	693	218	8	840
	Schnoering, John. (See Sprigade & Schnoering.)					
158, 529	Schnoor, Charles, Davenport, Iowa. Horseshoeing apparatus.....	Jan. 5, 1875	157	53	7	31
	Schock, James J. (See Kellogg & Schock.)					
	Schoen, Ferdinand. (See Murgatroyd, Thomas, assignor.)					
170, 403	Schoen, John, Chicago, Ill. Sofa-bedstead	Nov. 23, 1875	1068	336	8	899
166, 815	Schoenbein, Charles, Brooklyn, N. Y. Hat and coat hook.....	Aug. 17, 1875	612	189	8	303
165, 372	Schoenberg, Emanuel, Baltimore, Md. Carbureting-machine.....	July 6, 1875	212	63	8	37
	Schoenberger & Co. (See Young, William D., assignor.)					
163, 335	Schoenhof, Jacob, New York, N. Y. Process of ornamenting skirts	May 18, 1875	594	190	7	848
166, 635	Schoenhut, Albert, Philadelphia, Pa. Reed-organ attachment.....	Aug. 10, 1875	431	133	8	268
161, 905	Schoeninger, Adolph, Chicago, Ill. Child's rocker	Apr. 13, 1875	289	97	7	621
169, 047	Schofield, Christopher J., Clayton, Great Britain. Puddling-furnace	Oct. 19, 1875	700	231	8	679
	Schofield, Edwin. (See Russell, Charles, assignor.)					
6, 260	Schofield, Edwin, Worcester, Mass. Combined inhaler and nasal douche (Reissue) ..	Jan. 26, 1875	885	287	7	168
6, 268	Schofield, John S., Macon, Ga., assignor of one-half interest to Joshua R. Schofield. Horse-power..... (Reissue) ..	Feb. 2, 1875	240	78	7	218
163, 534	Schofield, John S., Macon, Ga. Horse-power	May 18, 1875	776	246	7	872
	Schofield, Joshua R. (See Schofield, John S., assignor.)					
161, 356	Schofield, Levi T., Cleveland, Ohio. Fire-proof floor and ceiling.....	Mar. 30, 1875	1055	343	7	525
161, 357	Same	Mar. 30, 1875	1056	344	7	525
163, 263	Schofield, Peter, Philadelphia, Pa. Faucet	May 11, 1875	506	164	7	820
160, 961	Scholes, James F., Brooklyn, N. Y. Barrel-stove	Mar. 16, 1875	662	216	7	457
	Schofield, Socrates, et al. (See Card, Edward, assignor.)					
160, 721	Schofield, Socrates, Providence, R. I. Pneumatic paper-feeder	Mar. 9, 1875	428	{ 142 } { 143 }	{ 7 }	419
164, 488	Schofield, Socrates, Providence, R. I., and Charles E. Baker, Mont Clair, N. J. Paper-feeding machine	June 15, 1875	625	202	7	1034
171, 534	Same.....Registering apparatus for printing-presses	Dec. 28, 1875	868	284	8	1090
	Scholz, William. (See Johnson, Charles, assignor.)					
167, 696	Schommeyer, Friedrich E., assignor of one-half interest to G. B. Johnson, Cleveland, Ohio. Egg-beater	Sept. 14, 1875	290	92	8	454
	School, Charles E. (See Ferris & School.)					
170, 023	Schoonmaker, John, New York, N. Y. Horse-hitching device.....	Nov. 16, 1875	694	218	8	841
167, 026	Schoonover, James S., assignor of two-thirds interest to C. G. Maynard and S. H. Allen, Corry, Pa. Machine for drilling metal.....	Aug. 24, 1875	827	258	8	342
	Schottler, Christoph. (See Gmeiner & Schottler.)					
170, 688	Schou, Matthias, Freehold, N. J. Tire-upsetter	Dec. 7, 1875	32	10	8	955
162, 197	Schow, Gilbert C., Chicago, Ill. Car-coupling	Apr. 20, 1875	562	185	7	663
166, 636	Schrader, Ander, Walla-Walla, Wash. Cultivator	Aug. 10, 1875	432	133	8	268
8, 324	Schreiner, John H., Philadelphia, Pa. Medal	May 11, 1875			7	783
8, 365	Same	June 1, 1875			7	926
164, 879	Schrink, John, Toledo, Ohio. Bottle-stopper or cork for bottles.....	June 22, 1875	991	320	7	1090
166, 899	Schrock, Andrew, assignor of one-half interest to Killinger & Co., Massillon, Ohio. Car-wheel	Aug. 17, 1875	693	214	8	314
163, 109	Schroder, Anson A., Warren, Ill. Ventilating-damper	May 11, 1875	364	118	7	802
	Schroeder, Nicholas. (See Duffy & Schroeder.)					
	Schroeder, Nicholas. (See Duffy, James F., assignor.)					
164, 599	Schroeder, Ferdinand A., Jersey City Heights, N. J. Clamp for candle-holders.....	June 15, 1875	718	233	7	1047
165, 881	Schroeder, Frederick W., assignor to self and George W. Gale, Baltimore, Md. Steerable air-ship	July 20, 1875	738	226	8	134
170, 306	Schroeffel, John, jr., Allegheny, Pa., assignor to O. D. Levis and W. A. Conklin. Grate..	Nov. 23, 1875	979	307	8	886
165, 882	Schroyer, Joseph J., assignor of one-half interest to Charles A. Helme, Springfield, Ill. Wood-pavement	July 20, 1875	741	226	8	135
163, 264	Schruben, Leonard, La Fayette, Ind. Tongue-support.....	May 11, 1875	507	165	7	820
	Schueler, Charles. (See Thinnies & Schueler.)					
165, 764	Schuette, Otto, Paris, France. Photometer	July 20, 1875	619	190	8	119
	Schuler, Theodore J. (See Vine & Schuler.)					
168, 927	Schulte, Anthony, Saint Louis, Mo. Rest for hardening and tempering circular saws...	Oct. 19, 1875	550	195	8	664
158, 985	Schultz, Albert O., Memphis, Tenn. Cotton-anger	Jan. 19, 1875	612	203	7	123
170, 307	Schultz, Alexandre, Paris, France. Process of dyeing fabrics.....	Nov. 23, 1875	980		8	886
168, 346	Schultz, Emile, Paris, France. Breech-loading ordnance.....	Oct. 5, 1875	24	9, 10	8	568
	Schultz, Robert D. (See Hoge & Schultz.)					
171, 433	Schulz, Friedrich W., Mount Pleasant, Iowa. Road-scraper	Dec. 21, 1875	757	249	8	1066
	Schumacher, Ferdinand. (See Ehrlichson, Asmus J., assignor.)					
	Same.....(See Heston, William, assignor.)					
	Same.....(See Kruse, Henry, assignor.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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170, 967	Schumacher, Gustav, assignor of one-half interest to R. D'Heureuse, New York, N. Y. Privy	Dec. 14, 1875	301	100	8	998
	Schumann, Franz. (See Mullett & Schumann.)					
168, 290	Schüssler, Carl F., Hamburg, Germany. Hydrocarbon-gas apparatus	Sept. 28, 1875	866	277	8	552
170, 903	Schussler, Herman W., New Haven, Conn. Lunch-pail	Dec. 7, 1875	218	75	8	980
166, 723	Schuster, Gustavus A., and John L. Driscoll, assignors to Gustavus A. Schuster, Oakland, Cal. Paint-brush	Aug. 17, 1875	531	163	8	291
6, 470	Schuyler, John F., deceased, assignor to William E. Lockwood, Philadelphia, Pa. Machine for planishing paper. (Reissue.)	June 1, 1875	214	75	7	959
	Schuyler, J. R., et al. (See Payne, Brigham, assignor.) (Reissue.)					
	Schuyler, P. C. (See Snedeker, David, assignor.)					
	Schwaab, Adam. (See Hoch, William, assignor.)					
	Schwab, Emil. (See Shepherd & Schwab.) (Design.)					
163, 030	Schwab, Kilian, Lebanon, Ill. Middlings-purifier	May 11, 1875	293	95	7	793
171, 179	Schwager, Charles, Indianapolis, Ind. Sled-propeller	Dec. 14, 1875	497	164	8	1024
164, 221	Schwager, Charles, and Joseph Wissen, Indianapolis, Ind. Propeller for sleds	June 8, 1875	356	122	7	990
161, 447	Schwamb, Frederick, Chicago, Ill. Cutter-head	Mar. 30, 1875	1140	368	7	536
159, 359	Schwaner, Christian C., Winterset, Iowa. Level	Feb. 2, 1875	108	37	7	199
159, 848	Same. Dash-board	Feb. 16, 1875	587	194	7	278
170, 775	Same. Clothes-line prop	Dec. 7, 1875	111	35	8	965
170, 774	Schwaner, John W., New York, N. Y. Harness-saddle	Dec. 7, 1875	110	35	8	965
169, 195	Schwanhauser, Gustav, Nuremberg, Bavaria. Colored copying-pencil	Oct. 26, 1875	852		8	708
158, 986	Schwartz, Charles, and Charles E. Woods, Henderson, Ky. Toilet-stand bedstead	Jan. 18, 1875	613	203	7	123
163, 266	Schwartz, Charles C. E., Philadelphia, Pa. Paper fan	May 11, 1875	509	165	7	821
170, 904	Schwartz, Philipp, Gross Ammensleben, Prussia. Ribbon-loom	Dec. 7, 1875	218	75, 76	8	980
	Schwarz, Adolph. (See Wendel Moses, assignor.)					
160, 844	Schwarz, Adolph, New York, N. Y. Traveling-cap	Mar. 16, 1875	561	182	7	443
166, 900	Same. Cap	Aug. 17, 1875	694	215	8	314
166, 637	Schweikert, John P., New York, N. Y. Ash-chute	Aug. 10, 1875	432	134	8	268
163, 265	Schweikhart, Philip, Buffalo, N. Y. Washing-machine	May 11, 1875	508	165	7	820
	Schweizer, Alois, et al. (See Berchtold, Fidel, assignor.)					
	Schweizer & Gruwe. (See Gruwe, Emil, assignor.)					
161, 448	Schwerdt, Johann A., New York, N. Y. Cutter-head	Mar. 30, 1875	1141	368	7	536
167, 273	Schwin, William E., Talladega, Ala. Tool-handle	Aug. 31, 1875	1073	335	8	383
167, 274	Scofield, Bolivar, Cartersville, Ga. Fertilizer-distributor, planter, and cultivator	Aug. 31, 1875	1073	335	8	383
164, 773	Scofield, David B., Baker City, Oreg. Carpet-cleaner	June 22, 1875	884	288	7	1078
170, 193	Scofield, Edward S., assignor to Washington Dewey, Chicago, Ill. Lock for car seats	Nov. 23, 1875	879	275	8	872
162, 106	Scofield, Levi, assignor of one-half interest to Justin B. Wait, Grand Haven, Mich. Corn-planter	Apr. 13, 1875	458	{ 152 } { 153 }	7	643
169, 196	Scofield, William R., Ellery, N. Y. Milk-cooler	Oct. 26, 1875	853	278	8	708
160, 473	Scoles, Weldon C., Circleville, Ohio. Car-coupling	Mar. 2, 1875	193	67	7	376
	Scorer, Ham & Wilkinson. (See Scorer & Ham, assignors.) (Design.)					
8, 483	Scorer, Robert, and Robert Ham, assignors to Scorer, Ham & Wilkinson, Troy, N. Y. Heating-stove	July 13, 1875			8	49
	Scotchmer, Henry E. (See Kotzum, Wenzel L., assignor.)					
168, 928	Scotford, Louis K., Burlingame, Kans. Lathe for turning ovals	Oct. 19, 1875	501	195	8	664
	Scott, Amos S. (See Scott, John, jr., and Amos S.)					
166, 724	Scott, Charles A. (See Maxwell & Scott.)					
	Scott, Erastus W., Wauregan, Conn. Whip-socket clasp	Aug. 17, 1875	532	163	8	291
162, 699	Scott, Frances A. (See Scott, William J., assignor.)					
	Scott, George W., Savannah, Ga. Bale-tie	Apr. 27, 1875	1054	336	7	733
	Scott, Gilbert R., et al. (See Preater, James H., assignor.)					
	Scott, Harmon. (See Hart & Scott.)					
162, 581	Scott, Henry R., and Dennis W. Granger, assignors to selves and Andrew J. Dibble, Franklin, N. Y. Butter-package	Apr. 27, 1875	938	301	7	719
	Scott, James. (See Easton & Scott.)					
167, 856	Scott, James, Hamilton, Canada. Composition for elastic stamps	Sept. 21, 1875	435		8	486
159, 612	Scott, James G., Saint Thomas, Canada. Car-brake	Feb. 9, 1875	353	117	7	241
171, 052	Scott, James L., Brooklyn, N. Y. Apparatus for transmitting motion	Dec. 14, 1875	375	{ 123 } { 124 }	8	1007
171, 053	Same. Mechanical movement	Dec. 14, 1875	376	124	8	1008
	Scott, Jasper S. (See McCall, Watkins & Scott.)					
158, 530	Scott, John, assignor to Lowell Machine Shop, Lowell, Mass. Traverse mechanism for ring spinning-frames	Jan. 5, 1875	157	53	7	31
166, 816	Scott, John, jr., and Amos S., Coatesville, Pa. Welding compound	Aug. 17, 1875	612		8	303
	Scott, John H. (See Phelps, Ira M., assignor.)					
168, 188	Scott, John O., Waupaca, Wis. Gun-lock	Sept. 28, 1875	778	247	8	539
170, 776	Scott, Olin. (See Holt, Newton W., assignor.)					
164, 774	Scott, Quincy A., Pittsburgh, Pa. Attaching disks to dental plates	Dec. 7, 1875	112	35	8	965
	Scott, Samuel, Springfield, Ohio, assignor to William A. Dodge, New York, N. Y. Sheet-metal hinge	June 22, 1875	885	289	7	1078
164, 489	Scott, Walter, Passaic, N. J., assignor to Joseph Chadwick, Boiling Spring, N. J., and Henry Dale, New York, N. Y. Hydrant	June 15, 1875	626	202	7	1034
164, 695	Scott, Walter, Chicago, Ill. Machine for cutting and delivering printed paper	June 22, 1875	816	267	7	1069
171, 246	Same. Car brake and starter	Dec. 2, 1875	589	193	8	1044
169, 376	Scott, William J., assignor to Frances A. Scott, Albany, N. Y. Testing-machine	Nov. 2, 1875	54	16	8	742
161, 559	Scott, William M., Birmingham, England. Breech-loading firm-arm	Mar. 30, 1875	1249	462	7	550
	Scott, Winfield. (See King & Scott.)					
169, 850	Scovil, Edward G., St. John, N. B. Box-pile	Nov. 9, 1875	534	166	8	811
6, 718	Scoville, Elijah U. and Washington L., Manlius, N. Y. Door-hinge	Oct. 26, 1875	986	319	8	726
	Scoville, Washington L. (See Scoville, Elijah U. and Washington L.) (Reissue.)					
	Seranton, Christopher A. (See Merriman, Benjamin H., assignor.)					
	Same. (See Pierce, David J., assignor.)					
170, 404	Scribner, George H., Essex, assignor of one-half interest to Londus F. Terrill, Underhill Centre, Vt. Steam-cooker	Nov. 23, 1875	1069	336	8	899
	Scutt, Hiram B. (See Watkins & Scutt.)					
169, 197	Sea, Henry, San Francisco, Cal. Brick-machine	Oct. 26, 1875	854	278	8	709
170, 024	Seabury, Thomas S., Saint James, N. Y. Wire fence	Nov. 16, 1875	694	219	8	841
170, 025	Same. Grape-vine trellis	Nov. 16, 1875	695	219	8	841
169, 302	Seagrave, Frederic S., Detroit, Mich. Velocipede	Oct. 26, 1875	954	309	8	722
160, 354	Seagrave, John D., Worcester, Mass. Faucet	Mar. 2, 1875	87	32	7	361
171, 180	Seaman, Alonzo D., Milwaukee, Wis. Spring bed-bottom	Dec. 14, 1875	497	164	8	1024
	Seaman, Emeline, administratrix. (See Seaman, John.)					
	Seaman, Frank. (See Miller, Leonard H., assignor.)					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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163, 891	Seaman, John, Andover, N. Y. Washing-machine.	June 1, 1875	46	16	7	937
167, 942	Seaman, John, deceased, by Emeline Seaman, administratrix, and assignor of one-half interest to James Ford, Andover, N. Y. Inside venetian-blind.	Sept. 21, 1875	521	166	8	496
167, 697	Seaman, John H., Brooklyn, N. Y. Extension or drop-light gas-alier.	Sept. 14, 1875	291	92	8	454
169, 377	Seaman, Robert, <i>et al.</i> (See Wiessbrock, Frederick W., assignor.)					
169, 377	Seaman, William H., New York, N. Y. Process for testing the purity of dye in black silk thread or fabric.	Nov. 2, 1875	55		8	742
168, 347	Seamans, Charles W. (See Russell & Seamans.)					
168, 347	Seameans, Julian C., Virgil, N. Y. Wagon-gearing.	Oct. 5, 1875	25	10	8	568
165, 883	Seamless Keg and Can Company. (See Wyckoff, Arcalous, assignor.) (Reissue.)					
165, 883	Searcy, John F. B. (See Bristol & Searcy.)					
165, 883	Searight, Samuel, Pettisville, Ohio. Burglar-alarm.	July 20, 1875	742	227	8	135
8, 303	Searle & Dynes. (See Wallis, George E., assignor.)					
8, 303	Searle, Edward P. (See Spoor & Searle.)					
8, 303	Searle, Ella R. (See Searle, Herman S., assignor.) (Design.)					
8, 303	Searle, Herman S., assignor, by mesne assignments, to Ella R. Searle, Rochester, N. Y. Picture-frame molding. (Design.)	Apr. 27, 1875			7	701
168, 189	Searle, Joseph M., Stanhope, N. J. Piston-rod stuffing-box.	Sept. 28, 1875	779	247	8	539
166, 638	Searles, Asbury M. (See Robinson, Darius S., assignor.)					
166, 638	Sears, Ephraim, Kimbolton, Ohio. Bean and pumpkin-seed dropper.	Aug. 10, 1875	433	134	8	268
166, 817	Sears, George B., <i>et al.</i> (See Bell, A. John, assignor.) (Reissue.)					
166, 817	Sears, James, Boston, Mass. Variety-molding machine.	Aug. 17, 1875	612	190	8	303
168, 789	Sears, John C., Saint Louis, Mo. Tool-handle.	Oct. 11, 1875	451	147	8	636
163, 267	Seaton, Charles W., Washington, D. C. Index.	May 11, 1875	510	{ 165 } { 166 }	{ 7 }	821
167, 572	Seaver, Augustus. (See Miller, William, assignor.)					
167, 572	Seaver, George V., Huntington, W. Va. Planing-chuck.	Sept. 7, 1875	169	53	8	430
168, 110	Seaverns, George W. (See Goodwin & Seaverns.)					
163, 697	Seavey, Edward L., Boscawen, N. H. Piano-stool.	Sept. 28, 1875	704	222	8	529
166, 416	Seavell, Charles H., Saint Louis, Mo. Illuminating-sign.	May 25, 1875	930	296	7	899
166, 416	Seck, Wilhelm, Bockenheim, Prussia. Grain-decoricator.	Aug. 3, 1875	219	66	8	229
169, 121	Seddall, Joseph R. (See Chapman, Friend J., assignor.)					
170, 405	Seddon, George B., and William McFaul, New York, N. Y. Rock-drill.	Oct. 26, 1875	792	257	8	699
170, 405	Sedgwick, Alonzo and Edwin H., Poughkeepsie, assignors to selves, Rodney S. and Walter W. Whitman, and David H. Burrell, Little Falls, N. Y. Curd-cutter.	Nov. 23, 1875	1069	337	8	899
168, 419	Sedgwick, Edwin. (See Silva, Merriam & Sedgwick.)					
168, 419	Sedgwick, Edwin H. (See Sedgwick, Alonzo and Edwin H.)					
168, 419	Sedore, Charles E. (See Brown & Sedore.)					
159, 043	See, James, Saint Louis, Mo. Millstone-staff.	Oct. 5, 1875	89	31	8	577
168, 929	Seebas, Oscar, New York, N. Y., and Robert Simon, West Hoboken, N. J. Hygroscope.	Jan. 26, 1875	688	227	7	140
166, 561	Seeber, John A., and James C. Croxton, Rockwall, Tex. Construction of jails.	Oct. 19, 1875	591	195	8	664
165, 373	Seehausen, Herman, assignor of one-half interest to George R. G. Jones, Memphis, Tenn. Curtain-fixture.	Aug. 10, 1875	365	112	8	258
165, 373	Seeley, Hurlbert H., Fenwick, Mich., assignor of one-half interest to Alexander Furguson. Grain-separator.	July 6, 1875	212	64	8	37
164, 222	Seeley, Nathan, <i>et al.</i> (See Jewell, Tryon J. M., assignor.)					
169, 851	Seelig, Romann, Chicago, Ill. Changeable feed-gear for feed-cutters.	June 8, 1875	356	122	7	990
169, 851	Segar, Charles T., assignor of one-half interest to Henry P. Mallory, Utica, N. Y. Spring bed-bottom.	Nov. 9, 1875	534	166	8	811
169, 486	Segebruck, Frederick G., <i>et al.</i> (See Fitch & Shafer, assignors.) (Reissue.)					
164, 400	Seger, Edmund S. (See Ormiston & Seger.)					
164, 400	Segur, Joseph M. (See Pierce, Truman L., assignor.)					
158, 810	Sehorn, Alexander O. H. P., Murfreesborough, Tenn. Vise.	Nov. 2, 1875	148	48	8	755
158, 810	Seiber, Charles F., Harrisburgh, assignor of one-half interest to Herrman Miller, Lancaster, Pa. Soap-cutting machine.	June 15, 1875	545	179	7	1023
168, 930	Seiberling, James H., assignor to Cline, Seiberling & Co., Doylestown, Ohio. Die for swaging harvester-guards.	Jan. 19, 1875	443	148	7	101
169, 048	Seiberling, J. F., trustee. (See Jarboe, John W., assignor.) (Reissue.)					
169, 048	Seiberling, John F., Akron, Ohio. Harvester-gearing.	Oct. 19, 1875	592	195	8	664
169, 049	Same. Harvester-reel.	Oct. 19, 1875	702	232	8	679
8, 041	Same. Journal-box.	Oct. 19, 1875	702	232	8	679
8, 041	Seibert, George A. (See Witman & Seibert.)					
8, 042	Seidensticker, Frederick R., assignor to Bradley & Hubbard, West Meriden, Conn. Lamp-bracket. (Case C. Design.)	Feb. 2, 1875			7	181
8, 043	Same. Chandelier. (Case C. Design.)	Feb. 2, 1875			7	181
8, 880	Same. same. (Case D. Design.)	Feb. 2, 1875			7	181
158, 531	Seidensticker, Frederick R., assignor to Bradley & Hubbard Manufacturing Company, West Meriden, Conn. Cigar-lighter. (Design.)	Dec. 20, 1875			8	1076
170, 777	Seidensticker, Frederick R., assignor to Bradley & Hubbard, West Meriden, Conn. Lamp-pendant.	Jan. 5, 1875	158	54	7	31
161, 827	Seidler, George N., assignor of one-half interest to Charles May, Hartford, Conn. Sofa-bedstead.	Dec. 7, 1875	113	36	8	965
161, 827	Seiple, Henry H. (See Chamberlain & Seiple.)					
161, 709	Seitz, George W. (See McCormick, William H., assignor.)					
168, 291	Seitz, Samuel, Shrewsbury Township, Pa. Fertilizer.	Apr. 6, 1875	209		7	599
168, 292	Selden, George, Erie, Pa. Means for preventing boiler-explosions.	Apr. 6, 1875	99	35	7	583
171, 247	Same. Pipe-tongs.	Sept. 28, 1875	867	278	8	552
161, 064	Same. same.	Sept. 28, 1875	868	278	8	552
158, 987	Selden, George B., Rochester, N. Y. Machine for shaving half-round hoops.	Dec. 21, 1875	591	194	8	1044
171, 324	Selden, Samuel, and Matthew Griswold, jr., Erie, Pa. Stove-pipe damper.	Mar. 23, 1875	757	250	7	479
171, 324	Selden, Samuel L., Rochester, N. Y. Hinge for gates.	Jan. 19, 1875	614	204	7	123
170, 308	Selder, La Fayette. (See Brinkerhoff, Bennett & Selder.)					
171, 324	Sell, Edgar E., Charlestown, S. C. Bellows attachment for rocking-chairs.	Nov. 23, 1875	891	307	8	886
158, 988	Selleck, Robert M., Newark, N. J. Harness-pad.	Dec. 21, 1875	657	216	8	1052
162, 422	Sellen, Michael, Brighton, Wis. Fire-arm.	Jan. 19, 1875	614	204	7	123
160, 034	Sellers, George H. (See Sellers, William and George H.)					
160, 034	Sellers, George H., Wilmington, Del., assignor to William and John Sellers, jr., Philadelphia, Pa. Method of enlarging the ends of metal bars.	Apr. 20, 1875	777	252	7	690
168, 348	Sellers, Jacob C., Marshfield, Mo. Fly-trap.	Feb. 23, 1875	780	257	7	311
167, 574	Sellers, John, jr., <i>et al.</i> (See Sellers, George H., assignor.)					
167, 574	Sellers, John, jr. (See Sellers, William and George H., assignors.)					
167, 574	Sellers, Peter, Lancaster County, Pa. Millstone-staff.	Oct. 5, 1875	26	10	8	568
167, 574	Sellers, Samuel, Philadelphia, Pa. Cylinder for paper-making machines.	Sept. 7, 1875	171	54	8	430
167, 574	Sellers, William. (See Ponsard, Auguste, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 849	Sellers, William, <i>et al.</i> (See Sellers, George H., assignor.) Sellers, William. (See Tweddell, Ralph H., assignor.) Sellers, William, Philadelphia, Pa., and George H. Sellers, Wilmington, Del.; said George H. assignor to John Sellers, jr., Philadelphia, Pa. Revolving-puddler	Feb. 16, 1875	588	195	7	278
166, 308	Sellmann, Henry, Hoboken, N. J., and Herman Reessing and Julius Wolff, New York, N. Y. Compound for preserving fish	Aug. 3, 1875	114	.....	8	215
167, 360	Sellon, John S., and Robert Pinkney, London, England. Dyeing and printing	Aug. 31, 1875	1150	.....	8	394
164, 045	Sells, Hugh, Vienna, Canada. Cider-press	June 1, 1875	178	64	7	955
167, 573	Selsor, George, Philadelphia, Pa. Grinding-mill	Sept. 7, 1875	170	54	8	430
166, 150	Senderling, Martin L., Jersey City, N. J. Sugar-mold	July 27, 1875	1011	311	8	184
170, 406	Seng, Wendelin, Chicago, Ill. Device for attaching bolster-frames to folding lounges	Nov. 23, 1875	1070	337	8	899
166, 639	Sensenbaugh, Henry, Sharon, Ill. Draft-equalizer	Aug. 10, 1875	434	134	8	268
167, 275	Senter, William F., Marshall, Mo. Corn-marker	Aug. 31, 1875	1075	335	8	383
170, 454	Sergeant, Wells E., Pine Island, Minn. Millstone-driver	Nov. 30, 1875	1128	356	8	915
	Seeth Thomas Clock Company. (See Andrews, Randal T., assignor.) Seton, John. (See Harney, James, assignor.) Settle, Edward, assignor of one-half interest to Benjamin Shevill, Brooklyn, N. Y. Leather-finishing machinery	Sept. 14, 1875	292	92	8	454
158, 989	Settle, George W. (See Settle, John and George W.) Settle, John, and George W., Lebanon, Oreg. Machine for tapering leather	Jan. 19, 1875	616	204	7	123
158, 745	Settle, John W., Glasgow, Ky. Grain-cradle	Jan. 12, 1875	360	123	7	75
171, 054	Settle, William H., <i>et al.</i> (See Barnard, Alanson, assignor.) Severin, Aug., assignor to self and Frederick Zarnfeller, New York, N. Y. Remedy for rheumatism	Dec. 14, 1875	377	.....	8	1008
162, 955	Severin, Wilhelm, <i>et al.</i> (See Kahler, Conrad, assignor.) Severn, Henry, Davenport, Iowa. Grain-conveyer	May 4, 1875	206	66	7	774
159, 225	Seward, Maurice D., Normal, Ill. Cooking-stove	Jan. 26, 1875	852	278	7	163
	Seward, Moses, New Haven, Conn. Collar for ornamental carriage-work (Extension)	Feb. 4, 1875	.....	.....	7	303
171, 434	Same. Vehicle-dash frame	Dec. 21, 1875	757	249	8	1066
171, 435	Sewell, John, Bowdon, Ga. Plow	Dec. 21, 1875	758	249	8	1066
160, 474	Sexton, James B., Pella, Iowa. Punching-machine	Mar. 2, 1875	194	67	7	376
162, 107	Sexton, Samuel B., Baltimore, Md. Magazine fire-place stove	Apr. 13, 1875	462	153	7	643
162, 108	Same. same	Apr. 13, 1875	464	154	7	643
160, 035	Seyd, William. (See Kinn, Friedrich, assignor.) Seyfang, George, Buffalo, N. Y. Coal-hod	Feb. 23, 1875	781	257	7	311
167, 857	Seyfang, George, assignor to Heinz, Pierce & Munschauer, Buffalo, N. Y. Coal-hod	Sept. 21, 1875	456	144	8	486
6, 719	Seyfert, Henry. (See Dorr & Seyfert.) Seymour, Albert P., New Britain, Conn. Mop and brush holder (Reissue)	Oct. 26, 1875	987	319	8	726
167, 027	Seymour, Alfred B., Jersey City, N. J. Manufacture of horseshoes	Aug. 24, 1875	828	258	8	342
162, 423	Seymour, Charles, Charlottesville, Va. Locking-latch	Apr. 20, 1875	778	252	7	690
161, 065	Seymour, Frederick J., Wolcottville, Conn. Lamp-collar	Mar. 23, 1875	759	250	7	479
166, 640	Seymour, James M., Newark, N. J. Process of baling hay, cotton, &c	Aug. 10, 1875	435	134	8	268
168, 532	Same. Machine for boring blind-stiles	Oct. 5, 1875	193	63	8	592
161, 162	Seymour, Marvin J., Tarr Farm, Pa. Machine for jointing staves	Mar. 23, 1875	855	279	7	491
163, 892	Seymour, Oliver E., assignor to Franklin H. Brown, Indianapolis, Ind. Journal-stud or crank-pin	June 1, 1875	47	16	7	937
167, 699	Seymour, William H., Gloversville, N. Y. Shingling-bracket	Sept. 14, 1875	293	93	8	455
162, 255	Seyter, Herman, Cambridge, Mass. Air-pump for carbureters	Apr. 20, 1875	617	201	7	670
164, 600	Shackleton, Joseph, Rahway, N. J. Steam-radiator	June 15, 1875	719	234	7	1047
171, 436	Shackleton, Joseph, Buffalo, N. Y. Steam-boiler	Dec. 21, 1875	759	250	8	1066
158, 392	Shackno, Charles, <i>et al.</i> (See Loeser, Lazarus, assignor.) Shafer, Charles T., Springfield, Ohio. Clothes-drier	Jan. 5, 1875	35	13	7	14
171, 437	Shafer, Frank L., San Francisco, Cal. Hanging or portable fountain	Dec. 21, 1875	759	250	8	1067
165, 032	Shafer, Peter. (See Fitch & Shafer.) (Reissue.) Shaffer, Edward P., Rochester, N. Y. Carpet-stretcher	June 29, 1875	1139	368	7	1118
162, 956	Shaffner, Henry C., <i>et al.</i> (See Mellinger, Christian K., assignor.) Shain, Charles J., and George L. Waitt, Philadelphia, Pa. Car-starter	May 4, 1875	207	67	7	774
163, 535	Shaler, Ira W., Brooklyn, N. Y. Carbureter	May 18, 1875	777	246	7	872
163, 536	Shamburg, G., <i>et al.</i> (See Allen, Hosea, assignor.) Shank, William P., Clifton, W. Va. Brush-holder	May 18, 1875	778	247	7	872
159, 613	Shanklin, Addison. (See Wilson, Jacob W., assignor.) Shanks, Simon W., Benton Harbor, Mich. Washing-machine	Feb. 9, 1875	353	117	7	241
167, 199	Shannon, James S., Chicago, Ill. Uterine supporter	Aug. 31, 1875	1012	315	8	374
160, 475	Shannon, John A., assignor to self and E. A. Thurstin, Bowling Green, Ohio. Scaffold	Mar. 2, 1875	195	67	7	376
159, 044	Shannon, John W., Erie, Pa. Manufacture of staple-blanks	Jan. 26, 1875	689	227	7	141
6, 501	Shapard, W. B., <i>et al.</i> (See Clem, James M., assignor.) (Reissue.) Shapley, Martin W., Binghamton, N. Y. Steam-boiler	June 22, 1875	1016	328	7	1094
167, 624	Share, Philip T., Baltimore, Md. Fastener for meeting-rails of sashes	Sept. 14, 1875	229	71	8	445
6, 507	Sharer, Thomas. (See Betteley & Sharer.) (Reissue.) Sharkey, James, Brooklyn, N. Y. Monument	June 22, 1875	1022	.....	7	1094
162, 957	Sharp, Absalom B., Plaquemine, La. Car-starter	May 4, 1875	209	67	7	774
161, 358	Sharp, Dennis P., Ithaca, N. Y. Horse hay-rake	Mar. 30, 1875	1057	344	7	525
169, 853	Same. same	Nov. 9, 1875	536	167	8	811
162, 772	Sharp, Hiram A., Jackson County, Mo. Car-coupling	May 4, 1875	35	11	7	751
164, 775	Sharp, James L., New York, N. Y. Coal-oil stove	June 22, 1875	885	289	7	1078
164, 490	Sharp, Joseph B. (See Sharp, William C., assignor.) Sharp, Joseph B., Vineland, N. J. Broom-brace	June 15, 1875	626	202	7	1034
169, 852	Sharp, Thomas, United States Army. Construction of fire-proof buildings	Nov. 9, 1875	535	167	8	811
170, 309	Sharp, William C., assignor to self and Joseph B. Sharp, Vineland, N. J. Seaming-machine	Nov. 23, 1875	981	307	8	887
160, 722	Sharpsteen, William M., Mechanicsburgh, Pa. Machine for tapering the tenons of spokes	Mar. 9, 1875	430	143	7	419
158, 532	Shattuck, Edwin R., Olean, N. Y. Coffee-filter	Jan. 5, 1875	159	54	7	31
158, 533	Shattuck, George H. (See Hopkins, Isaac N., assignor.) Shattuck, Mary L., New York, N. Y. Ticket-clasp	Jan. 5, 1875	159	54	7	31
166, 818	Shaver, John L. (See Barlow, Charles B., assignor.) Shaw & Rogers Lead Company. (See Tracey, Christopher C., assignor.) Shaw, Andrew, Petroleum, W. Va. Claw-bar	Aug. 17, 1875	614	190	8	303
167, 028	Shaw, Benjamin C., Indianapolis, Ind. Side-spar for vehicles	Aug. 24, 1875	829	258	8	342
165, 430	Shaw, Benjamin F., assignor to self, Edward Kendall, and George B. Roberts, Cambridge, Mass. Liquid-cooler	July 13, 1875	299	88	8	56
162, 109	Shaw, Charles, and Bernard Yaeger, Henry, Ill. Hat-holder for seats	Apr. 13, 1875	466	154	7	643
	Shaw, Charles A. (See Garland, William, assignor.) Same. (See Halvorson, Halvor, assignor.) Same. (See Skillen, Henry E., assignor.) Shaw, Charles B. (See Viets & Shaw.) Shaw, Charles H. (See Coyle, Henry G., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
166,033	Shaw, Daniel F., Hamilton, Mo. Sulky-harrow	July 27, 1875	895	276	8	168
166,151	Shaw, Edward, Manchester, England. Wheel for vehicles	July 27, 1875	1013	312	8	184
159,046	Shaw, Edward S., Cambridge, Mass. Joint for iron truss-bridges	Jan. 26, 1875	690	238	7	141
168,848	Shaw, Elizabeth F., Brooklyn, N. Y. Dress-protector for sewing-machines	Oct. 19, 1875	515	169	8	653
	Shaw, Francis M. (See Sturtevant & Shaw.)					
159,284	Shaw, Francis M., Brockton, assignor to Benjamin F. Sturtevant, Boston, Mass. Mechanism for compressing points on pegs	Feb. 2, 1875	37	13, 14	7	190
169,661	Shaw, Francis M., Brockton, assignor to David Whittemore, Wollaston, Mass. Machine for nailing boots and shoes	Nov. 9, 1875	339	167	8	787
8,259	Shaw, Franklin, Braintree, Mass. Tread of boot and shoe heels (Design)	Apr. 6, 1875			7	564
	Shaw, George W. (See Berryman, Bayard A., assignor.)					
	Same..... (See Wardwell Simon W., jr., assignor.)					
	Shaw, Henry M. (See Sanborn & Shaw.)					
168,931	Shaw, Irvin A., assignor to self and John E. Joslyn, Grand Meadow, Minn. Washing-machine	Oct. 19, 1875	593	196	8	665
162,315	Shaw, John B., and Simeon H. Lucas, Chicago, Ill. Drill for drilling metal	Apr. 20, 1875	669	218	7	677
170,968	Shaw, Lorenzo D. B., Boston, Mass. Steam and vacuum pump	Dec. 14, 1875	302	100	8	998
159,045	Shaw, Loring D., Boston, Mass. Automatic relief-valve	Jan. 26, 1875	689	{ 227 } { 228 }	7	141
169,854	Shaw, Mathew, Saint Louis, Mo. Refrigerator	Nov. 9, 1875	537	167	8	811
164,223	Shaw, Michael W., Galveston, Tex. Bottle-stopper	June 8, 1875	357	122	7	990
161,066	Shaw, Noah, Eau Claire, Wis. Head-block for saw-mills	Mar. 23, 1875	759	{ 250 } { 251 }	7	479
160,286	Shaw, Philander, Scituate, Mass. Air-tight dish	Mar. 2, 1875	27	11	7	352
167,475	Same..... Butter-worker	Sept. 7, 1875	82	26	8	418
167,476	Same..... Butter-mold	Sept. 7, 1875	83	26	8	418
162,110	Shaw, Samuel J., and H. Eugene Smith, Marlborough, Mass. Toy gun	Apr. 13, 1875	466	154	7	644
159,121	Shaw, Thomas, Providence, R. I. Tea-pot handle	Jan. 26, 1875	758	249	7	150
161,163	Shaw, Thomas, Danville, Pa. Fumigator for greenhouses	Mar. 23, 1875	855	279	7	491
162,773	Shaw, Thomas, Philadelphia, Pa. Plug-valve	May 4, 1875	36	11	7	751
166,562	Same..... Exhaust-nozzle	Aug. 10, 1875	365	112	8	259
	Shaw, Thomas S. (See Mulloony & Shaw.)					
170,778	Shaw, Timothy M., Lebanon, Tenn. Gang-plow	Dec. 7, 1875	114	36	8	965
164,106	Shaw, William, Kingman, Me. Machine for washing leather	June 8, 1875	259	89	7	977
	Shaw, William F., jr. (See Hennaman & Shaw.)					
6,581	Shaw, George W., Cleveland, Ohio, assignor, by mesne assignments, of part interest to Charles F. Uhl, John Gribben, H. A. Crossley, and W. H. Crowell. Electric annunciator	Aug. 3, 1875	267	79	8	236
	Shay, John H., et al. (See Hale, Edward, jr., assignor.)					
	Shay, Samuel F. (See Stephens & Shay.)					
6,777	Shearer, George H., Bay City, Mich. Log-turner for saw-mills	Nov. 30, 1875	1329	419	8	942
	Shears, Abram. (See Benjamin, Fred W., assignor.)					
160,620	Sheckler, Peter, and Harrison W. Bolender, Orangeville, Ill. Windmill	Mar. 9, 1875	338	114	7	406
166,819	Shedd, Joel, Waltham, Mass. Shutter-fastener	Aug. 17, 1875	614	190	8	304
162,198	Shedlock, Alfred, New York, N. Y. Oil and other presses	Apr. 20, 1875	563	185	7	663
166,481	Same..... Safety-pin	Aug. 10, 1875	300	90	8	249
164,696	Sheehy, Robert J., Boston, Mass. Electrical apparatus for timing races	June 22, 1875	818	{ 267 } { 268 }	7	1069
	Sheeler, Buckwalter & Co. (See Smith & Brown, assignors)					
164,224	Sheets, Albert A., Maumee City, Ohio. Horse-power equalizer	June 8, 1875	357	123	7	990
161,449	Sheffield, George V., assignor to Sheffield Screw Driving Machine Company, New York, N. Y. Machine for inserting fibrous screw-fastenings in boots and shoes	Mar. 30, 1875	1142	{ 368 } { 369 }	7	536
168,420	Sheffield, George V., New York, assignor to self and Martin Bennett, Brooklyn, N. Y. Method of uniting the soles and uppers of boots and shoes	Oct. 5, 1875	90	31	8	578
	Sheffield Screw Driving Machine Company. (See Sheffield, George V., assignor.)					
168,055	Shelby, Christopher C., Jersey City, N. J. Railway-crossing	Sept. 21, 1875	629	202	8	512
158,443	Sheldon, Cevendra B., New York, N. Y. Tag	Jan. 5, 1875	79	27	7	20
161,906	Same..... Butter-pail	Apr. 13, 1875	290	98	7	622
164,225	Same..... Furniture-caster	June 8, 1875	358	123	7	990
164,226	Same..... same	June 8, 1875	358	123	7	990
164,776	Same..... Joint-support for street-railway rails	June 22, 1875	886	289	7	1073
166,309	Same..... Folding seat for horse-cars	Aug. 3, 1875	114	35	8	215
166,310	Same..... Butter-package	Aug. 3, 1875	115	35	8	215
170,496	Sheldon, Frank P., Providence, R. I. Machine for threading screws	Nov. 30, 1875	1166	{ 368 } { 369 }	8	921
	Sheldon, J. H., et al. (See Eichbaum, Frederick H., assignor.)					
162,860	Sheldon, Sylvester W., New York, N. Y. Bluing case	May 4, 1875	115	37	7	762
166,152	Shelenberger, Amos, assignor of two-thirds interest to Joseph Z. Lizier and John W. Singer, Versailles, Ohio. Spiral hay-fork	July 27, 1875	1013	312	8	185
159,970	Shellabarger, Michael M., Hamilton, Mo. Sickle-head for harvesters	Feb. 16, 1875	699	233	7	293
	Shelley, Artemas M. (See Parker, Charles F., assignor.)					
163,110	Shelley, Nathan G., Stephen P. Bozarth, and David V. Spring, Austin, Tex. Car-coupling	May 11, 1875	364	119	7	802
6,680	Shelton, Edward D., Birmingham, Conn. Paper box	Oct. 5, 1875	224	73	8	596
160,239	Same..... same	Feb. 23, 1875	954	313	7	336
164,601	Shelton, Edward D., assignor to Cornell & Shelton, Birmingham, Conn. Paper box	June 15, 1875	719	234	7	1047
164,830	Shelton, Edward T., Laurel Grove, Va. Tobacco-knife	June 22, 1875	992	320	7	1091
161,164	Shelton, John D., Huntington, Conn. Pin-separator	Mar. 23, 1875	856	280	7	491
166,153	Shelton, John D., Birmingham, Conn. Machine for assorting pins	July 27, 1875	1014	312	8	185
165,033	Shelton, John J., Washington, Mo. Rotary churn	June 29, 1875	1140	368	7	1118
161,828	Shelton, Samuel C., Asheville, N. C. Tobacco-hanger	Apr. 6, 1875	210	70	7	599
6,474	Shenfield, Abraham, New York, N. Y. Buckle for suspenders	June 1, 1875	219	76	7	960
169,855	Same..... Suspender button-strap	Nov. 9, 1875	537	168	8	811
6,782	Shepard, George A., Bethel, Conn., assignor to Joseph H. Davis, Boston, Mass. Machine for covering reeds for hat-trimmings	Dec. 7, 1875	247	84	8	983
162,316	Shepard, George L., Columbus, Ohio. Spring bed-bottom	Apr. 20, 1875	670	219	7	677
166,311	Shepard, George L., and William Bedell, New York, N. Y. Garbage-vault	Aug. 3, 1875	116	35, 36	8	216
158,746	Shepard, George V., Troy, N. Y. Compound fabric	Jan. 12, 1875	261	123	7	75
158,990	Same..... Horse-blanket or lap-robe	Jan. 19, 1875	617	204	7	124
	Shepard, Henry W., et al. (See Wiessbrock, Frederick W., assignor.)					
171,584	Shepard, Jackson, Allegheny, Pa. Cigar-cutter	Dec. 28, 1875	915	300	8	1097
168,790	Shepard, Jacob, Williamsburgh, N. Y. Cigarette-maker	Oct. 11, 1875	452	147	8	636
160,476	Shepard, James, Bristol, Conn. Attaching rubber cushions to door-checks, &c	Mar. 2, 1875	196	67	7	377
168,111	Same..... Poultry-coop	Sept. 28, 1875	704	222	8	529
168,421	Shepard, Lewis, assignor to self and D. W. Kennedy, Mace, Ind. Crosscut-saw handle	Oct. 5, 1875	90	31	8	578

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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164, 602	Shepard, Morrill A., Lebanon, Ill. Roof.....	June 15, 1875	720	234	7	1047
168, 587	Same..... Iron roof.....	Oct. 11, 1875	271	88	8	610
163, 614	Shepard, William A., New York, N. Y. Fire-proof safe, &c.....	May 25, 1875	865	272	7	891
166, 941	Same..... Process for making quick-burning fluid.....	Aug. 24, 1875	745	.....	8	330
166, 034	Shepardson, Henry S., assignor to Winn Lock Company, Shelburne Falls, Mass. Lock.....	July 27, 1875	896	277	8	168
160, 287	Shepherd, Charles C., Passaic, N. J. Transparent slate.....	Mar. 2, 1875	28	11	7	353
165, 126	Same..... Slate.....	June 29, 1875	1223	393	7	1129
8, 018	Shepherd, Frank H., and Emil Schwab, Lowell, assignors to James W. Tufts, Medford, Mass. Casing of soda-water apparatus..... (Design).....	Jan. 19, 1875	.....	.....	7	93
8, 191	Same..... Casing of a soda-water apparatus..... (Design).....	Mar. 2, 1875	.....	.....	7	345
8, 778	Shepherd, Frank H., Boston, assignor to James W. Tufts, Medford, Mass. Casing of a soda-water apparatus..... (Case A. Design).....	Nov. 9, 1875	.....	.....	8	776
8, 779	Same..... same..... (Case B. Design).....	Nov. 9, 1875	.....	.....	8	776
8, 796	Same..... The casing of a soda-water apparatus..... (Case D. Design).....	Nov. 16, 1875	.....	.....	8	819
8, 797	Same..... same..... (Case C. Design).....	Nov. 16, 1875	.....	.....	8	819
8, 818	Same..... Casing of a soda-water apparatus..... (Case E. Design).....	Nov. 30, 1875	.....	.....	8	909
8, 819	Same..... same..... (Case F. Design).....	Nov. 30, 1875	.....	.....	8	909
8, 881	Same..... same..... (Design).....	Dec. 28, 1875	.....	.....	8	1076
165, 765	Shepherd, George W., Afton, Iowa. Corn-planter.....	July 20, 1875	620	191	8	119
161, 067	Shepherd, Samuel, et al. (See Harris, Samuel, assignor.)	.....	.....	.....	.....	.....
169, 0.0	Shepley, De Lana, Boston, Mass. Paper hat-binding.....	Mar. 23, 1875	761	251	7	480
165, 374	Sheppard, Isaac A., Philadelphia, Pa. Stove.....	Oct. 19, 1875	703	232	8	679
171, 585	Sheppard, John L., Charleston, S. C. Bale-band tightener.....	July 6, 1875	213	64	8	38
8, 251	Sheppard, Lydia H., Philadelphia, Pa. Picture-exhibitor.....	Dec. 28, 1875	916	300	8	1097
161, 829	Sherer, William T., Chicago, Ill. Tea-caddy..... (Design).....	Mar. 30, 1875	.....	.....	7	516
159, 850	Same..... same.....	Apr. 6, 1875	211	71	7	599
165, 621	Sherfy, Benjamin B., Knoxville, Tenn. Car-coupling.....	Feb. 16, 1875	590	195	7	278
161, 829	Sheridan, James F., New York, N. Y. Basin-faucet.....	July 13, 1875	481	146	8	83
161, 829	Sheridan, James L. (See Gambrell & Sheridan.)	.....	.....	.....	.....	.....
161, 829	Sherman, David B. (See Bishop & Sherman.)	.....	.....	.....	.....	.....
170, 905	Sherman, David B., et al. (See Lynahan, Daniel, assignor.)	.....	.....	.....	.....	.....
171, 181	Sherman, Henry A., Fremont, Ohio. Burglar-alarm.....	Dec. 7, 1875	220	76	8	980
161, 710	Sherman, Ira L., New Albion, N. Y. Fence-post.....	Dec. 14, 1875	498	165	8	1024
168, 349	Sherman, James L., Cassville, Wis. Piston-packing.....	Apr. 6, 1875	100	36	7	583
171, 535	Sherman, Jereh C., New Bedford, Mass. Screw-cutting die.....	Oct. 5, 1875	27	10	8	568
161, 829	Sherman, Seeley M., Fort Dodge, Iowa. Machine for forming metallic end-pieces for blind-slats.....	Dec. 28, 1875	869	{ 284 285 }	8	1090
161, 986	Sherrill, H. A. (See Lipsey, Andrew B., assignor.)	.....	.....	.....	.....	.....
161, 165	Sherrill, Henry W., New York, N. Y. Reversing pulley or gear-wheel.....	Apr. 13, 1875	357	120	7	630
161, 560	Sherrill, Ira T., Paducah, Ky. Car-coupler.....	Mar. 23, 1875	856	280	7	491
168, 056	Sherwin, James T., Philadelphia, Pa. Folding-rack for towels.....	Mar. 30, 1875	1251	402	7	550
168, 056	Sherwood, Andrew T., Amador City, Cal. Spring bed-bottom.....	Sept. 21, 1875	630	202	8	512
168, 056	Sherwood, Daniel, et al. (See Ayres & Chamberlin, assignors)..... (Reissue.)	.....	.....	.....	.....	.....
168, 056	Same..... (See Dudley, George D., assignor.)	.....	.....	.....	.....	.....
168, 056	Same..... (See Goodwin, Richard J. P., assignor)..... (Reissue.)	.....	.....	.....	.....	.....
168, 056	Same..... (See Woods, Edward P., assignor.)	.....	.....	.....	.....	.....
168, 056	Sherwood, Daniel. (See Woods & Sherwood)..... (Reissue.)	.....	.....	.....	.....	.....
160, 356	Sherwood, David W., et al. (See Rebstock, Christian, assignor.)	.....	.....	.....	.....	.....
160, 356	Sherwood, Samuel, Independence, Iowa. Water-wheel.....	Mar. 2, 1875	88	33	7	361
160, 356	Sherwood School Furniture Company. (See Cogger, William B., assignor.)	.....	.....	.....	.....	.....
160, 356	Sherwood, Warren A., et al. (See Brewer, Russell, assignor.)	.....	.....	.....	.....	.....
163, 336	Shevill, Benjamin. (See Settle, Edward, assignor.)	.....	.....	.....	.....	.....
168, 791	Shideler, George A., Logansport, Ind. Machine for dressing staves.....	May 18, 1875	595	190	7	848
158, 444	Shield, David, assignor of three-fourths interest to Indiana Car Company, Cambridge City, Ind. Operating street-car doors.....	Oct. 11, 1875	453	148	8	636
170, 598	Shields, Charles J., Adrian, Mich. Slate-frame.....	Jan. 5, 1875	80	28	7	20
167, 700	Shields, John R., Norfolk, Va. Hinge.....	Nov. 30, 1875	1268	399	8	934
168, 792	Shiels, Andrew, Portland, Oreg. Invalid-lounge.....	Sept. 14, 1875	294	93	8	455
164, 107	Shigley, William A., Jeddo, Kans. Animal-trap.....	Oct. 11, 1875	454	148	8	637
159, 226	Shill, Harry J., jr., Philadelphia, Pa. Child's carriage.....	June 8, 1875	260	89	7	977
163, 269	Shillito, Michael. (See Rhodes, Shillito & Speed.)	.....	.....	.....	.....	.....
160, 035	Shillito, William H. (See Rider & Shillito.)	.....	.....	.....	.....	.....
165, 375	Shimer, George J., Milton, Pa. Cutter-head.....	Jan. 26, 1875	853	279	7	164
158, 747	Same..... Machine for matching lumber.....	May 11, 1875	512	166	7	821
8, 652	Same..... Cutter-head for planing and molding machines.....	July 27, 1875	897	277	8	168
8, 653	Shimer, George J. and Samuel J., Milton, Pa. Process and furnace for manufacturing iron.....	July 6, 1875	213	64, 65	8	38
166, 725	Shimer, Joseph D. (See Carhart, Jacob C., assignor.)	.....	.....	.....	.....	.....
162, 582	Shimer, Milton J., Camden, N. J. Locking device for slide-rests.....	Jan. 12, 1875	261	123	7	75
164, 697	Shimer, Samuel J. (See Shimer, George J. and Samuel J.)	.....	.....	.....	.....	.....
167, 943	Shimoneck, William C., Washington, D. C. Waist-belt..... (Design).....	Sept. 14, 1875	.....	.....	8	439
159, 971	Same..... Back-comb..... (Design).....	Sept. 14, 1875	.....	.....	8	439
159, 972	Shine, Patrick H., Chicago, Ill., assignor of two-thirds interest to Benjamin C. Jones and Solomon J. Stebbins. Chimney top and ventilator.....	Aug. 17, 1875	533	163	8	291
8, 824	Shinn, Frederick M., Le Roy, Kans. Magazine fire-arm.....	Apr. 27, 1875	939	302	7	719
8, 848	Shinn, John, assignor to self, George H. Lehman, William N. Marcus, and Dudley H. Bradlee, Philadelphia, Pa. Cloth-steaming machine.....	June 22, 1875	821	268	7	1069
170, 194	Shipe, Walter S., Minerva, Ohio. Plane-guide.....	Sept. 21, 1875	522	167	8	497
169, 378	Shipley, Peter A., and Abraham Wheeler, Woodberry, Md. Washing-machine.....	Feb. 16, 1875	700	233	7	293
165, 127	Shiran, Andrew, and William J. Givens, Pecheco, Cal. Hoof-trimmer.....	Feb. 16, 1875	701	233	7	293
171, 438	Shirley, Frederick S., New Bedford, Mass. Glassware..... (Design).....	Dec. 7, 1875	.....	.....	8	945
161, 907	Same..... Lamp-chimney..... (Design).....	Dec. 14, 1875	.....	.....	8	988
161, 285	Same..... Chandelier.....	Nov. 23, 1875	880	275	8	872
161, 285	Shirley, Levy, et al. (See Rider, William H., assignor.)	.....	.....	.....	.....	.....
161, 285	Shirley, Martin. (See Eberly, John A., assignor.)	.....	.....	.....	.....	.....
161, 285	Shive, David, Philadelphia, Pa., assignor to Shive Governor Company. Watchmen's register.....	Nov. 2, 1875	56	17	8	742
161, 285	Shive Governor Company. (See Shive, David, assignor.)	.....	.....	.....	.....	.....
161, 285	Shive, John, Centre Hill, Ark. Hopple.....	June 29, 1875	1223	393	7	1129
161, 285	Shiver, Eli-ha, assignor, by mesne assignments, to William C. Dreyer, Baltimore, Md. Spring-motor.....	Dec. 21, 1875	760	250	8	1067
161, 285	Shock, William H., Baltimore, Md. Steam-radiator.....	Apr. 13, 1875	291	98	7	622
161, 285	Shoemaker, Charles T. (See Disston & Shoemaker.)	.....	.....	.....	.....	.....
161, 285	Shoemaker, James H., Wilmington, Del. Hot-air furnace.....	Mar. 23, 1875	973	318	7	506

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 944	Shoemaker, John A., and David D. Jones, Pittsburgh; said Jones assignor to E. T. Van-voorhis, Monongahela City, Pa. Nut-lock	Sept. 21, 1875	523	167	8	497
170, 310	Shoemaker, William S., assignor of two-thirds interest to Sydney C. Long, Baltimore, Md. Volute-spring motor	Nov. 23, 1875	981	307	8	887
	Shoemate, Parker M. (See Hoffman & Shoemate.)					
	Shoeninger, Adolph. (See Marble, George W., assignor.)					
8, 743	Shoeninger, Adolph, Chicago, Ill. Hobby-horse. (Design) ..	Oct. 19, 1875			8	645
8, 744	Same. same. (Design) ..	Oct. 19, 1875			8	645
159, 047	Same. Carriage-wheel fender	Jan. 26, 1875	691	228	7	141
165, 884	Shogren, Hans, Portland, Oreg. Bench-plane	July 20, 1875	743	227	8	135
165, 957	Sholl, Christian, Mount Joy, Pa. Hinge	July 27, 1875	824	2-3	8	158
	Sholty, Henry F. (See Kleckner, John A., assignor.)					
	Shoninger, Bernard. (See Lamas, John R., assignor.)					
162, 958	Shontz, Absalom S., assignor to Comstock, Castle & Co., Quincy, Ill. Stove-door handle.	May 4, 1875	210	67	7	774
158, 534	Shoots, James D., assignor of one-half interest to Robert Colwell, Horseheads, N. Y. Bucket for chain-pumps	Jan. 5, 1875	160	54	7	31
162, 424	Shorey, Samuel W., Boston, Mass. Seam for leather-work	Apr. 20, 1875	778	253	7	690
163, 270	Same. Mode of attaching buttons	May 11, 1875	513	167	7	821
168, 932	Short, James, New Brunswick, N. J. Yarn-printing machine	Oct. 19, 1875	593	196	8	665
169, 051	Short, William E., Tallula, Ill. Windmill-power	Oct. 19, 1875	703	232	8	679
	Shortlidge, Horace M., et al. (See Waitt, George W., assignor.)					
170, 311	Shotwell, John I., Welland, Canada. Washing-machine	Nov. 23, 1875	983	308	8	887
170, 779	Shouls, Richard M., New York, N. Y. Drop-light	Dec. 7, 1875	114	36	8	965
170, 906	Shourds, David H., Philadelphia, Pa. Demijohn for containing malt-liquors	Dec. 7, 1875	221	76	8	980
160, 845	Shrader, Charles D., assignor to self and Allen R. Bushnell, Lancaster, Wis. Harvester ..	Mar. 16, 1875	561	182	7	443
158, 748	Shrawder, John S., Fairview Village, Pa. Washing-machine	Jan. 12, 1875	262	124	7	75
158, 445	Shrock, Edward S., Lincoln, Ill. Blind-stop	Jan. 5, 1875	80	28	7	20
	Shroeder, Isaac L., et al. (See Ker, William W., assignor.)					
163, 537	Shuey, William H., assignor to David C. Price, Saint Paul, Minn. Circus-seat	May 18, 1875	779	247	7	872
8, 209	Shults, Byron G., Johnstown, N. Y. Gauntlet. (Design) ..	Mar. 16, 1875			7	427
8, 659	Same. Gauntlet-box. (Design) ..	Sept. 21, 1875			8	475
168, 793	Shultz, Samuel, Moscow, Ky. Hame.	Oct. 11, 1875	454	148	8	637
169, 487	Shuman, Charles, Red Oak, Iowa. Neck yoke	Nov. 2, 1875	148	48	8	755
162, 700	Shupe, Eli, Middleville, Mich. Cultivator	Apr. 27, 1875	1055	336	7	733
170, 689	Shute, Samuel E., jr., Richmond, Ind. Machine for threading and inserting wire	Dec. 7, 1875	34	10	8	955
169, 379	Sibert, Cicero, Indianapolis, Ind. Gong attachment for releasing horses in engine-houses ..	Nov. 2, 1875	58	17	8	742
	Sibley, Gideon. (See Williams, Alfred, assignor.)					
	Sibley, Josiah. (See Paul & Sibley.)					
168, 190	Sibley, Lewis, Ramapo, N. Y. Car-coupling	Sept. 28, 1875	779	248	8	540
166, 942	Sibley, Lorenzo D., Vineland, N. J. Stereoscope	Aug. 24, 1875	746	231	8	830
161, 711	Sickels, Frederic E., Swarthmore, Pa. Compound steam-engine	Apr. 6, 1875	101	36, 37	7	584
162, 959	Sickels, George B., assignor to Frank Sturges & Co., Chicago, Ill. Pocket cooking apparatus ..	May 4, 1875	210	67, 68	7	774
171, 182	Sidebotham, James, Cairo, Egypt. Car-axle-box lubricator	Dec. 14, 1875	498	165	8	1024
168, 794	Sidle, John A., Comstock, Mich. Button-hole cutter	Oct. 11, 1875	455	148	8	637
158, 535	Sidman, Henry L., Jersey City, N. J. Bearings for car-axles	Jan. 5, 1875	161	55	7	31
	Siebert, Albert. (See Smilie & Siebert.)					
6, 458	Siecke, Charles A., assignor to self and Augustus Wannack, New York, N. Y. Cigar-box	May 25, 1875	1069	337	7	918
158, 604	Siedler, Charles, New York, N. Y. Plug-tobacco	Jan. 12, 1875	239	81	7	58
	Sieg, R. (See Robert, Julius, assignor.)					
166, 641	Siegmán, John H., Baltimore, Md. Compound for polishing and coating coffee	Aug. 10, 1875	436		8	269
153, 712	Siemens, Charles W., Westminster, England. Manufacture of iron and steel	Feb. 9, 1875	442	148	7	254
161, 561	Siemens, Ernst W., and Carl L. Frischen, Berlin, Germany. Electrical railway-signal- ing apparatus	Mar. 30, 1875	1251	{ 403 404 279 280 }	{ 7 7 7 7 }	{ 551 710 709 599 }
162, 501	Siercks, Charles F. A., Chicago, Ill. Upholstering apparatus	Apr. 27, 1875	874		7	710
169, 198	Sieveking, Johann P., Altona, Prussia. Treating quicksilver-ore	Oct. 26, 1875	855		8	709
161, 830	Sights, Casper B., La Harpe, Ill. Corn-stalk cutter	Apr. 6, 1875	211	71	7	599
161, 450	Sigwalt, John, jr., Chicago, Ill. Hand-stamp	Mar. 30, 1875	1143	369	7	536
168, 350	Same. Mechanism for transmitting motion from treadles to revolving shafts ..	Oct. 5, 1875	27	11	8	568
170, 407	Silber, Albert M., London, England. Gas-burner	Nov. 23, 1875	1071	{ 337 338 }	{ 8 8 }	{ 899 529 }
168, 112	Silberman, Henry, New York, N. Y. Lock for cigar-boxes	Sept. 28, 1875	706	223	8	529
161, 359	Siler, Henry H., and Thomas A. Brooks, Saint Lawrence, assignors to selves and James D. Brooks, Raleigh, N. C. Apple slicer and corer ..	Mar. 30, 1875	1058	344	7	525
	Silliman, James P. (See Dunn & Silliman.)					
	Silsby, H. C. (See Deming & Wickes, assignors.)					
160, 357	Silsby, Isaac, Georgetown, D. C. Refrigerator	Mar. 2, 1875	89	33	7	361
165, 691	Silva, Albert P., Russell B., Merriam, and Edwin Sedgwick, Binghamton, N. Y. Burglar-alarm ..	July 20, 1875	556	170	8	109
	Silver, Ann. (See Silver, William H., assignor.)					
166, 642	Silver, Hugh A., London, England. Covering for gun-barrels	Aug. 10, 1875	437	135	8	269
167, 701	Same. Elastic butt-plate for fire-arms	Sept. 14, 1875	294	93	8	455
159, 285	Silver, Lovern B., Cleveland, Ohio. Combined chimney and ventilator	Feb. 2, 1875	38	14	7	190
164, 491	Silver, William H., Saint Louis, Mo., assignor to Ann Silver. Churn-dasher	June 15, 1875	628	203	7	1034
161, 166	Simison, Hugh A., Greenfield, O. Churn	Mar. 23, 1875	857	280	7	491
	Simmons & Son, George W. (See Spear, James E., jr., assignor.)					
161, 639	Simmons, George P., and Johan Franz, Cambridge, Mass. Quilting-frame	Apr. 6, 1875	45	17	7	575
160, 288	Simmons, James W., East Monroe, Wis. Churn	Mar. 2, 1875	28	11	7	353
	Simmons, Stephen A. (See Elliott, Fellows & Simmons.)					
	Same. (See Glidden & Simmons.)					
169, 856	Simmons, William W., Derby, Conn. Carriage-axle	Nov. 9, 1875	538	168	8	811
	Simmons, Zachariah E., et al. (See Cook, Thomas, assignor.)					
169, 199	Simms, Alonzo H., Nixburgh, Ala. Seed and guano distributor	Oct. 26, 1875	855	278	8	709
	Simms, Joseph L. (See Duvall, William T., assignor.)					
8, 849	Simon, Bernard, Scranton, Pa. Bottle	Dec. 14, 1875			8	988
	Simon, Robert. (See Seebas & Simon.)					
161, 712	Simon, Simon B., New York, N. Y. Watch case	Apr. 6, 1875	103	37	7	584
167, 361	Simonds, Alonzo B., New York, N. Y. Carbon paper	Aug. 31, 1875	1151	362	8	394
169, 736	Simonds, George F., assignor to Simonds Manufacturing Company, Fitchburgh, Mass. Tempering and forming articles of steel	Nov. 9, 1875	414	132	8	797
163, 416	Simonds, Joseph A., Washington, N. H. Tool for kitchen use	May 18, 1875	663	212	7	857
	Simonds Manufacturing Company. (See Simonds, George F., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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169, 662	Simonds, Nathaniel G., Boston, Mass. Conveyer for grain.....	Nov. 9, 1875	341	108	8	787
	Simonds, William E., <i>et al.</i> (See Chapman, Luke, assignor.)					
	Simonin, Charles F. A. (See Adamson & Simonin)..... (Reissue.)					
160, 621	Simons, Albert D., Windsor, Conn. Combined horse-hoe and plow.....	Mar. 9, 1875	339	114	7	406
169, 303	Simons, Henry M., Charleston, S. C. Packing box and crate.....	Oct. 26, 1875	955	309	8	722
170, 455	Simonson, Monroe L., East Rush, N. Y. Curry-comb.....	Nov. 30, 1875	1129	356	8	916
162, 701	Simonson, Sigmund, Bridgeport, Conn. Cigar-mold fastening.....	Apr. 27, 1875	1055	336	7	733
166, 154	Same..... Cigar-mold.....	July 27, 1875	1015	313	8	185
169, 488	Simonton, Jacob, Clarinda, Iowa. Billiard-chalk holder.....	Nov. 2, 1875	149	48	8	755
165, 692	Simpson, Charles C., Santa Clara, assignor of one-half interest to Charles J. Martin, San José, Cal. Chisel for stone-cutting.....	July 20, 1875	557	170	8	109
	Simpson, Hall, Miller & Co. (See Hawkins, Westel E., assignor.)					
	Same..... (See Vasseur, Herman, assignor)..... (Design.)					
169, 122	Simpson, James W., assignor of one-half interest to Morgan J. Simpson, Dry Ridge, Ky. Seed-planter.....	Oct. 26, 1875	793	257	8	699
168, 677	Simpson, J. Fourestier, Philadelphia, Pa. Trunk-fastening.....	Oct. 11, 1875	351	115	8	622
160, 358	Simpson, John, assignor to Dick & Church, Meadville, Pa. Reversing-link for steam-engines.....	Mar. 2, 1875	90	33	7	361
	Simpson, John B., <i>et al.</i> (See Ryan, William M., assignor.)					
166, 643	Simpson, Joseph, Newark, Ohio. Cigar-mold press.....	Aug. 10, 1875	437	135	8	269
	Simpson, M., <i>et al.</i> (See Finley, James R., assignor.)					
	Simpson, Michael H. (See Leavitt, Albert, assignor.)					
	Simpson, Morgan J. (See Simpson, James W., assignor.)					
167, 414	Sims, David, and John Hosick, Leavenworth, Kans. Wheat steamer and equalizer.....	Sept. 7, 1875	32	9	8	411
164, 942	Sims, Gardiner C., assignor to J. C. Hoadley Company, Lawrence, Mass. Governor for steam-engines.....	June 29, 1875	1067	344	7	1108
	Sinclair, Andrew. (See Mason & Sinclair.)					
167, 029	Sinclair, Charles, New York, N. Y. Hat.....	Aug. 24, 1875	829	258	8	342
159, 227	Sinclair, Heman B., Chicago, Ill. Folding table.....	Jan. 26, 1875	856	279	7	164
164, 401	Sinclair, James A., Bridgeport, Ohio, assignor to Abram Lash and Adoniram D. Newland. Grate-bar.....	June 15, 1875	546	179	7	1024
	Sinclair, John M. (See Mason & Sinclair.)					
	Sinclair Rectifying Machine Company. (See Sinclair, Thomas R., assignor.)					
163, 814	Sinclair, Thomas R., New York, N. Y. Apparatus for filtering liquids.....	May 25, 1875	1031	326	7	913
165, 377	Sinclair, Thomas R., Brooklyn, N. Y. Liquid-filtering apparatus.....	July 6, 1875	217	65	8	38
169, 857	Same..... Apparatus for filtering liquids.....	Nov. 9, 1875	538	{ 168 } 169	{ 8 }	811
171, 055	Sinclair, Thomas R., assignor to Sinclair Rectifying Machine Company, New York, N. Y. Apparatus for filtering liquids.....	Dec. 14, 1875	377	124	8	1008
171, 056	Sinclair, Thomas R., Brooklyn, assignor to Sinclair Rectifying Machine Company, New York, N. Y. Apparatus for filtering liquids.....	Dec. 14, 1875	379	{ 125 } 126	{ 8 }	1008
171, 439	Sinclair, Thomas R., N. Y. Packing-filter.....	Dec. 21, 1875	761	251	8	1067
171, 635	Sinclair, Thomas R., assignor to Sinclair Rectifying Machine Company, New York, N. Y. Filter.....	Dec. 28, 1875	979	317	8	1105
167, 200	Singer, Christian G., Pennville, Pa. Knife-scouring machine.....	Aug. 31, 1875	1012	315	8	975
164, 108	Singer, Edgar C., Marlin, Tex. Brick-mold.....	June 8, 1875	261	89	7	377
6, 752	Singer, Jacob, assignor of one-half interest to Robert L. Muench, Harrisburgh, Pa. Car-coupling..... (Reissue.)	Nov. 16, 1875	833	261	8	858
166, 563	Singer, Jacob, Harrisburgh, Pa. Car-coupling.....	Aug. 10, 1875	366	112	8	259
	Singer, John W., <i>et al.</i> (See Shelenberger, Amos, assignor.)					
	Singer Manufacturing Company. (See Bolton, James, assignor.)					
	Singerly, William M. (See Freeman, Albert A., assignor.)					
163, 538	Sinibaldi, George R. F. (See Sinibaldi, Pierre and George R. F.)					
	Sinibaldi, Pierre, Paris, France, and George R. F. Sinibaldi, London, England; said George R. F. assignor, by mesne assignments, to said Pierre. Storage and delivering tank for explosive and inflammable oils.....	May 18, 1875	779	247	7	872
167, 575	Sinsz, Philip, Baltimore, Md. Glazier's diamond.....	Sept. 7, 1875	172	54	8	430
161, 286	Sinzheimer, Alexander, Philadelphia, Pa. Shirt-bosom.....	Mar. 23, 1875	974	318	7	506
160, 622	Sipes, Robert H., Everett, Pa. Grave-cover and monument.....	Mar. 9, 1875	339	{ 114 } 115	{ 7 }	406
165, 622	Same..... Grave-cover.....	July 13, 1875	482	146	8	83
159, 614	Sirmans, Benjamin J., Blackshear, Ga. Car-coupling.....	Feb. 9, 1875	354	117	7	241
168, 849	Sirret, Emilé, Buffalo, N. Y. Muff-block former.....	Oct. 19, 1875	516	169	8	654
6, 496	Sisum, William H. H., Newark, N. J. Belt-shifter..... (Reissue.)	June 22, 1875	1011	327	7	1093
162, 200	Same..... Steam drop-press.....	Apr. 20, 1875	564	185	7	664
163, 698	Sitton, James Y., Due West, S. C. Felly-plate.....	May 25, 1875	931	296	7	900
167, 945	Siver, Simon P., and George H. Swords, Fishkill Landing, N. Y. Hat-brushing machine.....	Sept. 21, 1875	523	167	8	497
160, 063	Sivey, De Witt C., Greenfield, Ind. Extension-table slide.....	Feb. 23, 1875	807	265	7	315
162, 862	Skelton, Thomas, Milwaukee, Wis. Horseshoe.....	May 4, 1875	116	38	7	762
167, 576	Skidmore, Darius, Seneca Falls, N. Y. Hinge.....	Sept. 7, 1875	172	54	8	430
162, 702	Skidmore, William D., Mount Vernon, N. Y. Latch for gates.....	Apr. 27, 1875	1056	337	7	733
167, 577	Same..... Can-opener.....	Sept. 7, 1875	173	55	8	430
159, 713	Skillen, Henry E., Pownal, Me., assignor to Charles A. Shaw, Boston, Mass. Hay-press.....	Feb. 9, 1875	445	149	7	254
167, 129	Skinner, Carlos, Waterloo, Canada. Drum-heater.....	Aug. 24, 1875	925	288	8	355
162, 199	Skinner, Daniel M., assignor to self and Ezra Gould, Sandwich Centre, N. H. Plate-lifter.....	Apr. 20, 1875	564	185	7	663
	Skinner, D. C., <i>et al.</i> (See Lowe, Austin, assignor.)					
158, 811	Skinner, Elias, Grand Rapids, Mich. Locking-latch.....	Jan. 19, 1875	444	148	7	101
	Skinner, Thomas E., <i>et al.</i> (See Lowe, Austin, assignor.)					
164, 777	Sladdin, Joseph, Lawrence, Mass. Loom-harness.....	June 22, 1875	887	289	7	1078
171, 183	Slade, Frederick J., Trenton, N. J. Manufacture of steel.....	Dec. 14, 1875	499	.....	8	1024
168, 191	Slaney, John M., assignor to Jesse W. Starr and Jesse W. Starr, jr., Camden, N. J. Tar-gate for hydraulic main in gas-works.....	Sept. 28, 1875	780	248	8	540
	Slater, George B., <i>et al.</i> (See Brette & Lindsey, assignors.)					
171, 057	Slater, Horatio N., Webster, Mass. Flocking cloth.....	Dec. 14, 1875	382	.....	8	1008
	Slater, J. T., <i>et al.</i> (See Eichbaum, Frederick H., assignor.)					
165, 378	Slater, Sarah, assignor to self, Henry W. Gray, and Moses Smiley, Philadelphia, Pa. Compound for welding, hardening, and tempering steel.....	July 6, 1875	218	.....	8	38
	Slawson, John B. (See Tupper, Horace, assignor)..... (Reissue.)					
158, 749	Slawson, John B., New York, N. Y. Street-car platform.....	Jan. 12, 1875	262	124	7	75
168, 351	Slaymaker, William A., Louisville, Ky. Opera chair.....	Oct. 5, 1875	28	11	8	569
161, 287	Slayton, Augustus W., Tecumseh, Mich. Cutter-head.....	Mar. 23, 1875	975	319	7	507
168, 293	Sleicher, William, jr., Troy, N. Y. Melting and treating iron.....	Sept. 28, 1875	868	278	8	552
163, 337	Slemmer, Frank G., and George O. Clark, Philadelphia, Pa. Manufacture of leather belting.....	May 18, 1875	597	.....	7	849
171, 536	Slemmons, John O., Pittsburgh, Pa. Remedy for pulmonary diseases.....	Dec. 28, 1875	871		8	1090

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158, 750	Slichter, Joseph D., assignor to Louisa Bradford, Reading, Pa. Grate.....	Jan. 12, 1875	263	124	7	75
159, 360	Slichter, Joseph D., Reading, Pa. Grate for stoves.....	Feb. 2, 1875	108	37	7	199
159, 361	Same..... Grate.....	Feb. 2, 1875	109	38	7	199
	Sloan, Andrew J., et al. (See Heald, Alfred, assignor)..... (Design.)					
	Sloan, Crawford M. (See Grow & Sloan.)					
162, 703	Sloan, Daniel, New York, N. Y. Gas-regulator.....	Apr. 27, 1875	1057	337	7	733
162, 704	Same..... same.....	Apr. 27, 1875	1057	337	7	733
164, 881	Sloan, Edward, Trenton, Mich. Planking set for ship-carpenters.....	June 22, 1875	992	320	7	1091
168, 352	Sloan, Thomas J., New York, N. Y. Apparatus for thawing frozen water-pipes.....	Oct. 5, 1875	29	11	8	569
168, 353	Same..... Implements for thawing frozen water-pipes.....	Oct. 5, 1875	30	12	8	569
165, 885	Sloan, William D., New York, N. Y. Accountant's hand-rest.....	July 20, 1875	743	227	8	135
	Sloat, Frank D. (See Smith, Alfred E., assignor)..... (Reissue.)					
162, 317	Sloat, Henry R., Sloatsburgh, N. Y. Wrench.....	Apr. 20, 1875	671	219	7	677
163, 417	Slocum, Martha E., Hornellsville, N. Y. Plant-protector.....	May 18, 1875	663	212	7	857
	Slosson, Enos, et al. (See Dawner, Phyleman A., assignor.)					
6, 563	Slusser, Benjamin, assignor to Norman Du Bois and A. F. Koop, Sidney, Ohio. Sulky-plow.....	July 27, 1875	1047	322	8	189
159, 462	Slusser, Benjamin, Sidney, Ohio. Car-coupling.....	Feb. 2, 1875	209	67	7	213
166, 312	Same..... Dumping-car.....	Aug. 3, 1875	117	36	8	216
158, 867	Small, Addison, Portland, Me. Shirt-bosom.....	Jan. 19, 1875	495	166	7	108
170, 599	Small, Adoniram J., Woodstock, Canada. Barrel-lifting machine.....	Nov. 30, 1875	1269	399	8	934
	Small, Daniel J., et al. (See Reed, William H., assignor.)					
169, 304	Small, Freeman L., Houlton, Me. Car-coupling.....	Oct. 26, 1875	956	310	8	722
159, 773	Small, Herbert M., Waltham, Mass. Deodorizer for bed-vessels.....	Feb. 16, 1875	520	173	7	269
161, 167	Small, William, McKeesport, Pa. Bottom for welding and heating furnaces.....	Mar. 23, 1875	858		7	492
162, 201	Smart, Jasper A., Boston, Mass. Stamp for embossing or printing.....	Apr. 20, 1875	566	186	7	664
168, 422	Smeaton, Robert, Milwaukee, Wis. Anti-freezing hydrant.....	Oct. 5, 1875	91	32	8	578
169, 489	Smeaton, Robert G., Chicago, Ill. Stop-cock.....	Nov. 2, 1875	149	49	8	755
161, 908	Smedley, John D., New York, N. Y. Cooking-stove.....	Apr. 13, 1875	291	98	7	622
165, 623	Smetheils, John F., Chicago, Ill. Bilge-pump.....	July 13, 1875	482	147	8	83
	Smiley, Moses, et al. (See Slater, Sarah, assignor.)					
162, 960	Smilie, Thomas W., and Albert Siebert, Washington, D. C. Stereoscopic-print cutter.....	May 4, 1875	212	68	7	775
	Smillie, Dorrance & Edge. (See Edge, William C., assignor.)					
6, 362	Smith, Aaron. (See Smith, George T. and Aaron)..... (Reissue.)					
	Smith, Aaron F., Lynn, Mass., assignor, by mesne assignments, to Lyman A. May, Amos E. Withey, and Henry L. Drake. Apparatus for drying shoe-soles..... (Reissue.)	Mar. 30, 1875	1294	315	7	556
170, 911	Smith, Aaron W., Manchester, N. H. Horseshoe.....	Dec. 7, 1875	226	78	8	981
	Smith, Abel B. (See Woolridge, John, assignor.)					
	Smith, Adolph T. (See Hinds & Smith.)					
161, 071	Smith, Albert C., assignor of two-thirds interest to Moritz Morris and S. H. Craig, Fort Madison, Iowa. Suspender, belt, or garter fastening.....	Mar. 23, 1875	767	253	7	480
165, 128	Smith, Albert C., assignor of one-half interest to Theo. S. Jackson, Fort Madison, Iowa. Corn-stalk cutter.....	June 29, 1875	1224	394	7	1129
	Smith, Albert J., et al. (See Mackinney, Herbert G., assignor.)					
167, 948	Smith, Albert K., Nebraska, Ohio. Oscillating joint for pitman-connections.....	Sept. 21, 1875	525	168	8	497
6, 694	Smith, Alfred E., Bronxville, N. Y., assignor to Frank D. Sloat, Middletown, Conn. Carriage-axle.....	Oct. 11, 1875	486	158	8	641
6, 695	Same..... same.....	Oct. 11, 1875	487	158	8	641
158, 536	Smith, Algernon W., Lexington, Mo. Flour-sifter.....	Jan. 5, 1875	161	55	7	31
166, 649	Smith, Almon J., assignor to Oliver D. Draper and Thomas Tucker, Ortonville, Mich. Snow-plow.....	Aug. 10, 1875	442	136	8	270
	Smith, Alpheus K., et al. (See Owen, Daniel E., assignor.)					
165, 036	Smith, Amos, Bangor, Me. Anchor.....	June 29, 1875	1142	369	7	1118
163, 031	Smith, Amos M., Chicago, Ill. Station-indicator.....	May 11, 1875	295	95	7	793
	Smith & Co., James. (See Proctor, Josiah K., assignor.)					
	Same..... (See Proctor & Lindsay, assignors.)					
	Smith & Co., H. D. (See Ward, William S., assignor.)					
	Smith & Griggs Manufacturing Company. (See Lines, John, assignor.)					
	Same..... (See Smith, John E., assignor)..... (Reissue.)					
	Smith & Sons, Alexander. (See Allan, Robert, assignor)..... (Design.)					
	Smith & Sons Carpet Company, Alexander. (See Petit, Eugene, assignor)..... (Design.)					
169, 737	Smith, Andrew, and John S. Roy, Sheridan, Nev. Washing-machine.....	Nov. 9, 1875	416	132	8	797
159, 973	Smith, Andrew A., Georgetown, Colo. Wireway.....	Feb. 16, 1875	702	{ 233 } { 234 }	7	293
	Smith, Andrew H., et al. (See Davies, Henry J. and Walter D., assignors.)					
164, 049	Smith, Andrew H., New York, N. Y. Car-starter.....	June 1, 1875	183	65	7	956
165, 767	Smith, Andrew L., Geneva, N. Y. Gas and water regulator.....	July 20, 1875	622	191	8	119
168, 796	Smith, Andrew V. S., Washington, D. C. Pocket blank-book.....	Oct. 11, 1875	457	149	8	637
170, 497	Smith, Annie R., Geddes, assignor of one-half interest to Alvah Sweetland, Memphis, N. Y. Hair-switch.....	Nov. 30, 1875	1170	369	8	921
167, 477	Smith, Archibald, Omaha, Nebr. Car-coupling.....	Sept. 7, 1875	84	26	8	418
6, 764	Smith, Augustus P., Sterling, Ill. Mitten..... (Reissue.)	Nov. 23, 1875	1102	346	8	904
	Smith, C. H. (See Douglass, William H., assignor.)					
165, 958	Smith, Charles, et al. (See Boyd, John, assignor.)					
168, 057	Smith, Charles A., Lebanon, Mo. Millstone-dressing machine.....	July 27, 1875	825	253	8	158
	Smith, Charles A., assignor of one-half interest to David Hoffer, Philadelphia, Pa. Shutter-fastener.....	Sept. 21, 1875	631	202	8	512
161, 640	Smith, Charles B., Cleveland, Ohio. Coffee-pot.....	Apr. 6, 1875	45	17	7	575
165, 690	Smith, Charles D., Boston, Mass. Steam-boiler furnace.....	July 20, 1875	555	169	8	169
167, 131	Same..... Exhaust mechanism.....	Aug. 24, 1875	926	289	8	356
	Smith, Charles E. (See Dodge & Smith.)					
165, 262	Smith, Charles E., Lowell, Mass. Bench-hook.....	July 6, 1875	110	33	8	24
162, 318	Smith, Charles H., Faribault, Minn. Window-washer.....	Apr. 20, 1875	671	219	7	677
168, 113	Smith, Charles M., Boston, Mass. Picture-hanger.....	Sept. 28, 1875	706	223	8	529
	Smith, Charles T. (See Smith, Samuel M. and Charles T.)					
163, 339	Smith, Charles V., and William Farmer, New York, N. Y. Apparatus for purifying illuminating-gas.....	May 18, 1875	598	191	7	849
160, 359	Smith, Chester F., Torrington, Conn. Clothes-frame.....	Mar. 2, 1875	91	33	7	362
161, 170	Smith, Clark, assignor to self and William H. Clark, Cornwall on the Hudson, N. Y. Chain-propeller.....	Mar. 23, 1875	861	281	7	492
	Smith, Daniel. (See Wagstaff, John C., assignor.)					
162, 861	Smith, David, Johnstown, N. Y. Sleigh-shaft attachment.....	May 4, 1875	115	37	7	762
167, 201	Smith, David, Albany, N. Y. Fuel cut-off for magazine-stoves.....	Aug. 31, 1875	1013	315	8	375
162, 961	Smith, David B., Bastrop, La. Steak-cooking pan.....	May 4, 1875	212	68	7	775
162, 962	Same..... Plow.....	May 4, 1875	213	68	7	775

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161, 451	Smith, David H., Saint Louis, Mo. Cut-off for steam-engines.....	Mar. 30, 1875	1144	369	7	536
160, 551	Smith, Dexter, Springfield, Mass. Revolving fire-arm.....	Mar. 9, 1875	278	94	7	397
163, 032	Same..... same.....	May 11, 1875	296	95	7	793
17, 059	Same..... same.....	Dec. 14, 1875	283	126	8	1008
162, 863	Smith, Dexter, and Joseph C. Marshall, Springfield, Mass. Revolving fire-arm.....	May 4, 1875	116	38	7	762
167, 947	Smith, Dwight L., assignor to Waterbury Buckle Company, Waterbury, Conn. Buckle.....	Sept. 21, 1875	525	168	8	497
6, 807	Smith, Earle H., New York, N. Y., assignor to Margurite E. R. Smith. Sewing-machine. (Reissue).....	Dec. 14, 1875	548	179	8	1030
169, 305	Smith, Edgar B., Albany, N. Y. Refrigerator.....	Oct. 26, 1875	957	310	8	722
169, 306	Same..... same.....	Oct. 26, 1875	959	310 311	8	722
165, 959	Smith, Edward, and E. Chapman Maltby, Northford, Conn., assignors to E. Chapman Maltby. Machine for paring coconut-meats.....	July 27, 1875	836	254	8	158
170, 910	Smith, Edward Q., Evansville, Ind. Machine for bending wood.....	Dec. 7, 1875	225	77	8	981
166, 943	Smith, Elias, Bloomington, Ill. Cattle-alarm for locomotives.....	Aug. 24, 1875	748	231 232	8	331
6, 363	Smith, Elihu, Albany, N. Y., assignor to Samuel H. Ransom, trustee. Stove.. (Reissue).....	Mar. 30, 1875	1295	315	7	556
168, 534	Smith, Elihu, Albany, N. Y. Heating-stove.....	Oct. 5, 1875	197	64, 65	8	592
169, 052	Smith, Elihu, assignor to Samuel H. Ransom, trustee, Albany, N. Y. Stove and furnace.....	Oct. 19, 1875	704	233	8	679
	Smith, Elizabeth, administratrix. (See Smith, George, sr.)					
	Smith, Ephraim K. (See Fagley, John S., assignor.)					
162, 319	Smith, Erasmus, Norwich, N. Y. Insertible saw-teeth.....	Apr. 20, 1875	672	219	7	677
161, 168	Smith, Erastus W., New York, N. Y. Boiler-covering.....	Mar. 23, 1875	859	280	7	492
171, 440	Same..... Water-pipe.....	Dec. 21, 1875	762	251	8	1067
167, 794	Smith, Eugene, Philadelphia, Pa. Scroll-sawing machine.....	Sept. 14, 1875	382	122	8	467
161, 641	Smith, Ferdinand A., Portland, Oreg. Scuttle-elevator.....	Apr. 6, 1875	46	17	7	575
	Smith, Francis H., deceased, by Marshall T. Smith, executor, Baltimore, Md. Drying fruit, vegetables, &c..... (Extension).....	Feb. 25, 1875			7	515
171, 058	Smith, Frank E., San José, Cal. Reversible center-pinion for watches.....	Dec. 14, 1875	382	126	8	1008
	Smith, Frank J. (See Dolph & Smith.)					
	Smith, Frank L. (See Brear, Abel, assignor.)					
	Smith, Frank S., et al. (See Clark, Joseph, assignor.)					
	Smith, Frank W. (See Robinson, Smith & Campbell.)					
170, 456	Smith, Fred D., Davenport, Iowa. Scroll-sawing machine.....	Nov. 30, 1875	1130	356	8	916
164, 943	Smith, Frederick B., Washington, D. C. Tailor's measure.....	June 29, 1875	1068	344	7	1108
	Smith, Friend W. (See Kinsman & Smith.)					
	Smith, Friend W., et al. (See Hotchkiss, Arthur E., assignor.)					
158, 991	Smith, Friend W., Bridgeport, Conn. Game apparatus.....	Jan. 19, 1875	617	205	7	124
160, 723	Smith, Friend W., and Frederick Egge, Bridgeport, Conn. Hasp.....	Mar. 9, 1875	431	143	7	419
168, 795	Same..... Blasting-cartridge.....	Oct. 11, 1875	456	149	8	637
170, 600	Same..... same.....	Nov. 30, 1875	1269	400	8	934
171, 441	Smith, Friend W., and Frederick Egge, Bridgeport, Conn., assignors to Paul A. Oliver, Wilkesbarre, Pa. Blasting-cartridge.....	Dec. 21, 1875	763	251	8	1067
8, 224	Smith, Garrettson, and Henry Brown, Philadelphia, assignors to Sheeler, Buckwalter & Co., Royer's Ford, Pa. Stove-plate..... (Design).....	Mar. 23, 1875			7	466
6, 336	Same..... Heating-stove..... (Design).....	May 18, 1875			7	837
	Smith, George, administrator. (See Smith, George, sr.)					
166, 644	Smith, George, sr., deceased, by George and Elizabeth Smith, administrators, Cincinnati, Ohio. Cream-dropping machine for confectionery.....	Aug. 10, 1875	438	135	8	269
170, 643	Smith, George, Brooklyn, N. Y. Cartridge.....	Nov. 30, 1875	1308	413	8	940
160, 846	Smith, George B., Philadelphia, Pa. Apparatus for preserving wood.....	Mar. 16, 1875	562	182	7	443
	Smith, George E. (See Freeman & Smith.)					
6, 331	Smith, George F., Plantsville, Conn. Thill-coupling..... (Reissue).....	Mar. 9, 1875	462	152	7	422
6, 558	Smith, George K., Waterloo, Iowa, assignor, by mesne assignments, of one-half interest to George W. Miller. Composition-metal for casting plows..... (Reissue).....	July 27, 1875	1043		8	188
161, 169	Smith, George K., Waterloo, Iowa. Casting chilled mold-boards, &c.....	Mar. 23, 1875	860	281	7	492
6, 619	Smith, George T., Minnesota City, and Aaron Smith, Hastings, Minn. Flour-bolt (Reissue).....	Aug. 24, 1875	963	300	8	360
158, 992	Smith, George T., Minneapolis, Minn. Middlings-purifier.....	Jan. 19, 1875	618	205	7	124
164, 050	Same..... Flour-dressing machine.....	June 1, 1875	184	65, 66	7	956
166, 419	Smith, George T., Minnesota City, Minn. Millstone-dress.....	Aug. 3, 1875	221	67	8	230
169, 858	Smith, George T., Saint Louis, Mo. Millstone-staff.....	Nov. 9, 1875	541	169	8	812
170, 120	Same..... Millstone.....	Nov. 16, 1875	787	250	8	853
165, 263	Smith, Gerritt, Astoria, N. Y. Duplex telegraph.....	July 6, 1875	111	33	8	24
160, 793	Smith, Gilbert, San Francisco, Cal. Chafing-iron for vehicles.....	Mar. 16, 1875	521	168	7	437
	Smith, Guilford. (See Hatch & Smith.)					
166, 646	Smith, Hamilton E., New York, N. Y. Clothes-washer.....	Aug. 10, 1875	440	136	8	269
166, 647	Same..... Ironing apparatus.....	Feb. 10, 1875	440	136	8	269
166, 648	Same..... same.....	Aug. 10, 1875	441	136	8	270
167, 580	Same..... Ironing apparatus.....	Sept. 7, 1875	176	55	8	431
170, 907	Same..... Lubricating journal-box.....	Dec. 7, 1875	222	76	8	980
	Smith, Heman S. (See Granger & Smith.)					
170, 908	Smith, Heman S., Brooklyn, assignor of one half interest to Alanson T. Briggs and William H. Thrall, New York, N. Y. Barrel-polishing machine.....	Dec. 7, 1875	222	77	8	980
170, 909	Same..... Barrel-shaping machine.....	Dec. 7, 1875	223	77	8	981
161, 360	Smith, Henry, Westminster, England. Candle-holder.....	Mar. 30, 1875	1059	344	7	525
164, 604	Smith, Henry, assignor to Charles Parker, Meriden, Conn. Drill for drilling metals.....	June 15, 1875	722	235	7	1047
	Smith, H. Eugene. (See Shaw & Smith.)					
161, 361	Smith, Horatio M., assignor of two-thirds interest to Moses W. and Franklin Lester, Chicago, Ill. Furnace for steam-generators.....	Mar. 30, 1875	1059	345	7	525
164, 402	Same..... Furnace.....	June 15, 1875	547	179	7	1024
164, 403	Same..... Steam-boiler furnace.....	June 15, 1875	548	179	7	1024
164, 404	Same..... Furnace.....	June 15, 1875	550	180	7	1024
165, 766	Smith, Horatio M., Chicago, Ill. Barrel-head.....	July 20, 1875	621	191	8	119
167, 579	Same..... Furnace.....	Sept. 7, 1875	174	55	8	431
170, 195	Smith, Horatio M., assignor of two-thirds interest to Moses W. and Franklin Lester, Chicago, Ill. Mail-bag fastening.....	Nov. 23, 1875	881	275	8	873
170, 196	Same..... Steam-generator.....	Nov. 23, 1875	882	276	8	873
170, 197	Same..... Retort for furnaces.....	Nov. 23, 1875	883	276	8	873
170, 198	Same..... Hydrocarbon furnace.....	Nov. 23, 1875	884	276	8	873
170, 199	Same..... Cooking-apparatus.....	Nov. 23, 1875	885	276	8	873
165, 129	Smith, Hugh, Newark, N. J. Treatment of leather.....	June 29, 1875	1225		7	1129
165, 624	Smith, Hugh, Gray, Me. Runner for sleighs.....	July 13, 1875	484	147	8	84
171, 325	Smith, Hugh, and Walter Galbraith, Passumpsic, Vt. Drag-rake handle.....	Dec. 21, 1875	658	216	8	1053
6, 600	Smith, Ira O., assignor of one-half interest to Peter Walker, Muskegon, Mich. Furnace for burning edgings, sawdust, &c..... (Reissue).....	Aug. 17, 1875	715	222	8	317

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
166, 650	Smith, Ira O., and Peter Walker, Muskegon, Mich. Refuse-burner.....	Aug. 10, 1875	443	137	8	270
158, 268	Smith, Isaac, assignor to George A. Chapman, New York, N. Y. Insulating compound..	Jan. 19, 1875	495	167	7	108
	Smith, Isaac O. (See Smith, Marvin O., assignor.)					
159, 463	Smith, Isaac T., Richmond, Va. Bale-tie.....	Feb. 2, 1875	209	68	7	213
162, 533	Smith, Israel E., assignor of one-half interest to Emanuel K. Leckrone, York, Pa. Churn.	Oct. 5, 1875	195	64	8	592
	Smith, Jacob. (See Himelrich & Smith.)					
167, 478	Smith, Jacob, Chicago, Ill. Sash-pulley.....	Sept. 7, 1875	85	27	8	418
160, 240	Smith, James A., New York, N. Y. Wheel for vehicles.....	Feb. 23, 1875	955	314	7	336
169, 201	Smith, James B., Hepworth, Canada. Car-coupling.....	Oct. 26, 1875	857	279	8	709
161, 171	Smith, James D., Gregg, N. Y. Station-indicator.....	Mar. 23, 1875	861	281	7	492
162, 705	Smith, James D., Washington, D. C. Strainer for wash-basins and bath-tubs.....	Apr. 27, 1875	1058	337	7	733
163, 271	Same..... Needle-board for registering bank-notes and other prints.....	May 11, 1875	514	167	7	821
159, 362	Smith, James L., Tuscola, Ill. Sheep-shears.....	Feb. 2, 1875	110	38	7	199
	Smith, Jane E., et al. (See Rhind, Frank, assignor.)					
165, 768	Smith, Jay W., Philadelphia, Pa. Milk-can.....	July 20, 1875	623	191	8	119
165, 886	Smith, Jeremiah F., Keokuk, Iowa. Peg-cutting machine.....	July 20, 1875	745	228	8	135
162, 202	Smith, Jerome S., Provincetown, Mass. Thill-coupling.....	Apr. 20, 1875	567	186	7	664
	Smith, J. F. (See Fredenburgh, John, assignor.)					
6, 487	Smith, J. Nottingham, Jersey City, N. J. Railway-axle box..... (Reissue) ..	June 15, 1875	749	245	7	1052
160, 962	Same..... Seal-lock.....	Mar. 16, 1875	663	216	7	457
161, 069	Same..... Railway-axle box.....	Mar. 23, 1875	763	{ 251 } { 252 }	{ 7 }	480
161, 070	Same..... Car-axle box.....	Mar. 23, 1875	765	{ 252 } { 253 }	{ 7 }	480
163, 815	Same..... Bale-tie.....	May 25, 1875	1032	327	7	913
	Smith, John, et al. (See Leach, Matthew, assignor.)					
167, 130	Smith, John, jr., Gloucester, N. J., assignor to George B. Heyl, Philadelphia, Pa. Ex-	Aug. 24, 1875	926	288	8	355
169, 380	Smith, John, Burlington, assignor of one-half interest to P. E. Merrihew, Fond du Lac,	Nov. 2, 1875	59	17	8	742
170, 121	Wis. Horse-power.....	Nov. 16, 1875	788	250	8	853
	Smith, John, Conshohocken, Pa. Wringer.....					
	Smith, John A. C. J. (See Murray & Smith)..... (Design.)					
	Smith, John B. (See Pierce, James D., assignor.)					
	Same..... (See Pierce & Smith.)					
	Smith, John B., et al. (See Pierce, James D., assignor.)					
	Smith, John C. (See Harwood & Smith)..... (Design.)					
167, 030	Smith, John C., Brooklyn, N. Y. Arithmetical toy block.....	Aug. 24, 1875	830	259	8	342
166, 420	Smith, John D., Schuylerville, N. Y. Axle-skein.....	Aug. 3, 1875	222	67	8	230
6, 796	Smith, John E., Waterbury, Conn., assignor to Smith and Griggs Manufacturing Com-	Dec. 14, 1875	536	176	8	1029
165, 379	pany. Combined hat-holder and check..... (Reissue) ..	July 6, 1875	219	66	8	38
167, 031	Smith, John E., New York, N. Y. Printing-telegraph.....	Aug. 24, 1875	830	259	8	342
8, 167	Smith, John E., Buffalo, N. Y. Sausage-meat mixer.....					
	Smith, John H., Enfield, assignor to Hartford Carpet Company, Hartford, Conn.	Feb. 23, 1875			7	302
	Carpet..... (Design) ..	Feb. 23, 1875			7	302
8, 168	Same..... same..... (Design) ..	Feb. 23, 1875			7	302
8, 169	Same..... same..... (Design) ..	Feb. 23, 1875			7	302
8, 170	Same..... same..... (Design) ..	Feb. 23, 1875			7	302
8, 171	Same..... same..... (Design) ..	Feb. 23, 1875			7	302
8, 172	Same..... same..... (Design) ..	Feb. 23, 1875			7	303
8, 173	Same..... same..... (Design) ..	Feb. 23, 1875			7	303
8, 174	Same..... same..... (Design) ..	Feb. 23, 1875			7	303
8, 175	Same..... same..... (Design) ..	Feb. 23, 1875			7	303
8, 176	Same..... same..... (Design) ..	Feb. 23, 1875			7	303
8, 546	Same..... same..... (Design) ..	July 27, 1875			8	149
8, 547	Same..... same..... (Design) ..	July 27, 1875			8	149
163, 539	Smith, John H. and Matthew, Pittsburgh, Pa. Mold for glassware.....	May 18, 1875	781	247	7	872
162, 774	Smith, John H. C. and Nathan B., Saint Elmo, Ill. Car-coupling.....	May 4, 1875	36	12	7	751
164, 047	Smith, John P., and Samuel W. Ricker, Exeter, N. H. Sewing-machine for stitching straw	June 1, 1875	180	64, 65	7	955
	Smith, John V. (See Lusby & Smith.)					
163, 612	Smith, John Y., Pittsburgh, Pa. Car-brake.....	May 25, 1875	863	272	7	890
	Smith, Joseph. (See Tomlinson & Smith.)					
166, 727	Smith, Joseph M., Rochester, N. Y. Saw-gumming machine.....	Aug. 17, 1875	534	164	8	291
8, 384	Smith, Joseph R., assignor to Waterbury Button Company, Waterbury, Conn.	June 8, 1875			7	968
	Button..... (Design) ..					
	Smith, Joseph S. (See Davis, James M., assignor.)					
165, 264	Smith, Julian K., Burrillville, R. I. Planing-machine.....	July 6, 1875	112	33	8	24
170, 690	Smith, Lewis F., Macomb, Ill. Draft-equalizer.....	Dec. 7, 1875	35	10	8	955
168, 193	Smith, Luther, Lowell, Mass. Paper-tube machine.....	Sept. 28, 1875	782	248	8	540
	Smith, Margurite E. E. (See Smith, Earle H., assignor.)					
	Smith, Marshall L. (See Hoopes & Smith.)					
	Smith, Marshall T., executor. (See Smith, Francis H.)..... (Extension.)					
159, 363	Smith, Martin C., Earlville, Ill. Center-wheel for watches.....	Feb. 2, 1875	110	38	7	199
	Smith, Matthew. (See Smith, John H. and Matthew.)					
166, 313	Smith, Marvin O., assignor to Isaac O. Smith, New Buffalo, Mich. Saw-gummer.....	Aug. 3, 1875	117	36	8	216
165, 182	Smith, Minard M., assignor of one-half interest to Lewis C. Tufts, New York, N. Y.	July 6, 1875	39	11	8	14
	Boiler-tube cleaner.....	Aug. 3, 1875	221	67	8	230
166, 418	Smith, Minor, Cayutaville, N. Y. Fruit-gatherer.....					
	Smith, Nathan B. (See Smith, John H. C. and Nathan B.)					
	Smith, Nelson E., administrator. (See Smith, Russell.)					
168, 423	Smith, Oliver C., Rosemond, Ill. Car-coupling.....	Oct. 5, 1875	91	32	8	578
159, 851	Smith, Othniel J., Wauwatosa, Wis. Whiffletree-hook.....	Feb. 16, 1875	590	195	7	278
162, 425	Smith, Peter E., Liscomb, Iowa. Brick-kiln.....	Apr. 20, 1875	779	253	7	690
	Smith, Presseyman. (See Tesseyman, John, assignor.)					
163, 111	Smith, Reuben A., East Weare, N. H. Toilet-bracket.....	May 11, 1875	365	119	7	802
	Smith, R. Frank. (See Mills, Andrew J., assignor.)					
	Smith, R. H., et al. (See Smith, William, assignor.)					
161, 289	Smith, Richard H., assignor to Sarah J. Smith, Baltimore, Md. Soldering-machine.....	Mar. 23, 1875	977	319	7	507
169, 202	Smith, Robert, assignor to self and Charles Littlefield, Paterson, N. J. Can-opener.....	Oct. 26, 1875	858	279	8	709
167, 702	Smith, Robert D. O., Washington, D. C. Water-closet.....	Sept. 14, 1875	295	93	8	455
169, 490	Same..... Ventilation of commodes or close stools.....	Nov. 2, 1875	150	49	8	755
163, 817	Smith, Roland H., and Joshua Goldthorp, Pittsburgh, Pa. Gas-apparatus.....	May 25, 1875	1033	327	7	913
166, 645	Same..... Apparatus for the manufacture of illuminating-gas.....	Aug. 10, 1875	438	135	8	269
6, 400	Smith, Roswell T., Nashua, N. H., assignor to self, John G. Blunt, William Earl, and	Apr. 27, 1875	1096	347	7	737
	J. K. Priest. Apparatus for transmitting motive-power..... (Reissue) ..	May 18, 1875	597	191	7	849
163, 338	Smith, Roswell T., Nashua, N. H. Universal joint.....					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
164, 048	Smith Russell, deceased, by Nelson E. Smith, administrator, Richford, Vt. Milk-cooler.	June 1, 1875	182	65	7	956
162, 583	Smith, Samuel C., Lowell, Mass. Bolt-heading machine.	Apr. 27, 1875	940	302	7	719
169, 859	Smith, Samuel M. and Charles T., Bradford, England. Dyeing-apparatus.	Nov. 9, 1875	542	169	8	812
164, 603	Smith, Samuel R. (See Lane & Smith.) Automatic brake for elevators	June 15, 1875	721	{ 234 235 }	{ 7 7 }	1047
163, 893	Smith, Sarah J. (See Smith, Richard H., assignor.)	June 1, 1875	48	16	7	937
168, 192	Smith, Silas G., Hollis, Me. Track-clearer	Sept. 28, 1875	781	248	8	540
161, 562	Smith, Simon, and Isaac S. Collins, Mauch Chunk, Pa. Air-valve for pumps	Mar. 30, 1875	1256	404	7	551
163, 816	Smith, Sylvester A., Muscatine, Iowa. Awl for shoe-makers	May 25, 1875	1032	327	7	913
167, 276	Same.....Milking-tube	Aug. 31, 1875	1076	336	8	384
165, 265	Smith, Thomas. (See Hicks & Smith.) Smith, Thomas T. V., Yarmouth, Nova Scotia. Locomotive-engine	July 6, 1875	112	33	8	24
163, 611	Smith, Tilton E., assignor to self and Charles J. Locker, Attica, Mich. Table-leaf lifter and supporter	May 25, 1875	863	271	7	890
7, 992	Smith, Uriah, Battle Creek, Mich. Folding seat for school-desks	Jan. 5, 1875			7	5
167, 277	Smith, Valentine H., Philadelphia, Pa. Nursing-bottle. (Design)	Aug. 31, 1875	1077	336	8	384
167, 793	Smith, Watson B. (See Reid, William I., assignor.) Smith, W. Bell, Charleston, S. C. Chuck for holding eccentrics while being turned	Sept. 14, 1875	381	122	8	467
	Same.....Cutter-holder for planing-machines	Mar. 23, 1875	976	319	7	507
161, 288	Smith, W. D. (See Long, Samuel L., assignor.)	May 25, 1875	1034	327	7	914
163, 818	Smith, William. (See Pieri, Jacques P., assignor.) Smith, William, Barnard Castle, England. Road-scraper	June 29, 1875	1141	368	7	1118
165, 035	Smith, William, assignor to R. H. Smith and Joshua Goldthorp, Pittsburgh, Pa. Gas-retort	Dec. 7, 1875	35	10	8	955
170, 691	Smith, William, Chicago, Ill. Pneumatic dredger	June 29, 1875	1141	368	7	1118
165, 034	Smith, William, Independence, Ky. Spring-equalizer					
	Smith, William B., New York, N. Y. Show-case					
	Smith, William F., et al. (See Rousseau, David, assignor.)					
	Smith, William H., et al. (See Fell, Ambrose G., assignor.)					
	Same.....(See Stanforth, William, assignor.)					
	Same.....(See Taylor & McCamish, assignors.)					
8, 177	Smith, William H. (See Toucey, Smith & Buchanan.) Smith, William H., Enfield, assignor to Hartford Carpet Company, Hartford, Conn. Carpet	Feb. 23, 1875			7	303
8, 178	Same.....same	Feb. 23, 1875			7	303
8, 179	Same.....same	Feb. 23, 1875			7	303
8, 548	Same.....same	July 27, 1875			8	149
8, 549	Same.....same	July 27, 1875			8	149
161, 068	Smith, William H. L. (See Mason, John B., assignor.) Smith, William L., San Francisco, Cal. Hydraulic engine	Mar. 23, 1875	762	251	7	480
8, 056	Smith, William M., assignor to Meriden Britannia Company, West Meriden, Conn. Coffin-plate	Feb. 9, 1875			7	223
8, 199	Same.....Coffin-handle	Mar. 9, 1875			7	387
8, 791	Same.....Coffin-handle base	Nov. 9, 1875			8	777
8, 882	Same.....Coffin-handle-socket base	Dec. 28, 1875			8	1076
167, 578	Same.....Coffin-screw	Sept. 7, 1875	174	55	8	431
163, 272	Smith, William P., et al. (See Collins M. Grier, assignor.) Smith, William P., Quaker-town, Pa. Cigar-press	May 11, 1875	515	167	7	821
	Smith, William T., et al. (See Johnson, John, assignor.)					
	Smith, William T. (See Loudenslager, S., assignor.)					
167, 946	Smith, Wilson, Franklin, Pa. Adjustable dam	Sept. 21, 1875	524	{ 167 168 }	{ 8 8 }	497
159, 714	Smith, Winchester & Co. (See Hatch & Smith, assignors.)	Feb. 9, 1875	446	140	7	254
169, 200	Smith, Wright, Forestville, Ind. Tobacco-cutter	Oct. 26, 1875	856	279	8	709
159, 122	Smither, Joseph C., Nicholasville, Ky. Harness-buckle	Jan. 26, 1875	759	249	7	150
162, 111	Smithson, George. (See Wilson & Smithson.) Smitten, Thomas W. F., New York, N. Y. Revolving spice-box	Apr. 13, 1875	468	155	7	644
170, 780	Smoot, William G., Washington, D. C. Car-coupling	Dec. 7, 1875	115	37	8	965
166, 421	Smoot, William S., Ilion, N. Y. Primer for cartridges	Aug. 3, 1875	223	67	8	230
171, 184	Smothers, Thomas T., Bryan, Tex. Reversible sad-iron	Dec. 14, 1875	500	165	8	1024
161, 072	Smythe, Homer S., Aurora, Ill. Nail for wire fences	Mar. 23, 1875	768		7	480
163, 273	Snedeker, David, Jersey City, N. J., assignor of one-third interest to P. C. Schuyler, New York, N. Y. Process of preserving food	May 11, 1875	515		7	821
171, 442	Sneed, James L., and John E. Kirtley, Frankfort, Ky. Mineral paint	Dec. 21, 1875	764	251	8	1067
8, 225	Sneider, Charles E. and Charles W., Baltimore, Md. Breech-loading fire-arm	Mar. 23, 1875			7	466
8, 226	Sneider, Charles W. (See Sneider, Charles E. and Charles W.) Sneider, Robert, Brooklyn, N. Y. Envelope	Mar. 23, 1875			7	466
169, 594	Same.....same	Nov. 2, 1875	256	83	8	769
160, 623	Snell, Sylvester, Watertown, N. Y. Barley-fork	Mar. 9, 1875	340	115	7	406
159, 364	Snellbaker, William H. H., Chicago, Ill. Wagon-seat	Feb. 2, 1875	111	38	7	199
164, 605	Snider, John S., Lancaster, Ohio. Cistern	June 15, 1875	722	235	7	1048
170, 122	Snider, Tunis, Fort Worth, Tex. Farm-gate	Nov. 16, 1875	789	250	8	853
167, 703	Snitjer, Drikus, Quincy, Ill. Compensation-journal for sewing-machine balance-wheels	Sept. 14, 1875	296	94	8	455
159, 365	Snively, J. Stouffer, Greencastle, Pa. Wheel-harrow	Feb. 2, 1875	112	39	7	200
168, 535	Snoddy, James P. (See Henson, William A., assignor.) Snow, Chester J., San Francisco, Cal. Fastening for meeting-rails of sashes	Oct. 5, 1875	198	65	8	592
168, 536	Snow, George H. (See Hall & Snow.) Snow, George K., assignor to Mary J. Snow, Watertown, Mass. Method of binding books	Oct. 5, 1875	200	66	8	592
160, 360	Same.....Paper-fastener and card-suspender	Mar. 2, 1875	91	34	7	362
162, 584	Snow, Henry J., et al. (See Batchelder, Edwin R., assignor.) Snow, Loxor B., assignor to self and L. Grant Meddaugh, Cleveland, Ohio. Grape and flower picker	Apr. 27, 1875	943	303	7	719
166, 901	Snow, Mary J. (See Snow, George K., assignor.) Snow, William, assignor to self and Joseph H. Challen, Waverly, Ill. Draft-equalizer	Aug. 17, 1875	694	215	8	314
167, 795	Snow, William B., Brooklyn, N. Y., assignor to self and Eaton, Cole & Burnham Company, Bridgeport, Conn. Steam-radiator	Sept. 14, 1875	383	123	8	468
168, 797	Snow, William D., Brooklyn, N. Y. Gas-governor	Oct. 11, 1875	457	149	8	637
166, 820	Same.....Carbureter Snowden, Arthur C., South Norwalk, Conn. Horseshoe	Aug. 17, 1875	615	190	8	304
	Snowden, Henry, et al. (See Carrick, Thomas J., assignor.)					
	Snydam, John C. (See Whitney, William F., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 887	Snyder, Andrew G., Ashtabula, Ohio. Machine for bending carriage-poles.....	July 20, 1875	745	228	8	135
	Snyder, Antes. (See Snyder, Henry F., George S., and Antes.)					
164, 944	Snyder, August, Allegheny, Pa. Stop-cock.....	June 29, 1875	1068	344	7	1108
160, 964	Snyder, Benjamin, assignor of one-half interest to Jos. H. Miller, Johnson's Corners, Ohio. Axle-skein for vehicles.....	Mar. 16, 1875	664	217	7	457
160, 241	Snyder, Benjamin B., jr., assignor of one-half interest to R. W. L. Rasin, Baltimore, Md. Nut-lock.....	Feb. 23, 1875	955	314	7	336
160, 963	Snyder, Charles, Belle Plaine, Iowa. Bedstead.....	Mar. 16, 1875	664	217	7	457
6, 475	Snyder, Charles R., Minneapolis, Minn. Lady's work-table..... (Reissue)	June 1, 1875	220	77	7	960
169, 595	Snyder, Ephraim A., Philadelphia, Pa. Egg-preserving compound.....	Nov. 2, 1875	257		8	769
	Snyder, George S. (See Snyder, Henry F., George S., and Antes.)					
163, 033	Snyder, Henry F. and George S., Williamsport, and Antes Snyder, Springdale, Pa. Turn-table.....	May 11, 1875	297	96	7	793
	Snyder, Jesse D., et al. (See Douthett, William C., assignor.)					
	Snyder, Ward B. (See Heaton, Nathan C., assignor.)					
170, 123	Snyder, William B., assignor to self and W. H. Perry, Bridgeport, Conn. Card-binder....	Nov. 16, 1875	790	250	8	853
161, 290	Sochetsky, William, New York, N. Y. Process of embossing wood.....	Mar. 23, 1875	978		7	507
164, 334	Soderstrom, John O., Pepin, Wis. Lamp-extinguisher.....	June 8, 1875	467	155	7	1004
169, 491	Soesbe, Samuel W., Greene, Iowa. Letter-press copy-book.....	Nov. 2, 1875	152	50	8	756
	Solis, John. (See McGrann & Solis.)					
169, 381	Sollers, Sabritt D., Philadelphia, Pa. Salesman's seat.....	Nov. 2, 1875	60	17	8	743
163, 819	Solomon, Isaac, Solomon's Island, Md. Means for reefing sails.....	May 25, 1875	1034	328	7	914
	Solomon, Joseph J., et al. (See Harrington, Thomas, assignor.)					
165, 625	Solomon, Samuel, New York, N. Y. Neck-tie.....	July 13, 1875	484	147	8	84
167, 581	Somers, Daniel M., New York, N. Y. Pen-holder.....	Sept. 7, 1875	177	56	8	431
167, 796	Somers, Daniel M., Brooklyn, N. Y. Manufacture of metal tubing.....	Sept. 14, 1875	384	123	8	468
168, 850	Somers, Daniel M., New York, N. Y., assignor to Orestes Cleveland, Jersey City, N. J. Erasive-tablet holder.....	Oct. 19, 1875	516	169	8	654
	Somerset, John. (See Hayes & Somerset.)					
8, 654	Sommer, Henry B., Philadelphia, Pa. Fan..... (Design)	Sept. 14, 1875			8	439
162, 706	Sommers, Peter A., Cazenovia, Ill. Band-cutter for thrashing-machines.....	Apr. 27, 1875	1059	338	7	733
159, 615	Soper, Ephraim, Brooklyn, N. Y. Thill-coupling.....	Feb. 9, 1875	355	117	7	941
161, 172	Soper, Ephraim, New York, N. Y. Side-bar wagon.....	Mar. 23, 1875	862	282	7	492
	Sorey, James H. (See Williamson & Sorey.)					
	Soule, Betsy C., administratrix. (See Soule, Samuel W.)..... (Reissue.)					
159, 852	Soule, Leander, Taunton, Mass. Machine for making shoe-nails.....	Feb. 16, 1875	591	{ 195 196 }	7	278
165, 693	Same..... Nail-plate feeder.....	July 20, 1875	557	170	8	109
160, 064	Soule, Peter, Colesville, N. Y. Sulky.....	Feb. 23, 1875	808	265	7	315
6, 710	Soule, Samuel W., deceased, by Betsy C. Soule, administratrix, Brooklyn, N. Y. Paper-cutting machine..... (Reissue)	Oct. 19, 1875	738	342	8	684
158, 812	Soulé, Samuel W., New York, N. Y. Paper-cutting machine.....	Jan. 19, 1875	445	148	7	102
168, 851	Soulerin, Leon, Milwaukee, Wis. Wrought-iron post.....	Oct. 19, 1875	517	170	8	654
163, 699	Sourwine, John D., Indianapolis, Ind. Ruffling attachment for sewing-machines.....	May 25, 1875	932	296	7	900
167, 797	Souter, Joseph, assignor of two-thirds interest to Charles Laukler and George A. Phillips, Buffalo, N. Y. Grain-drier.....	Sept. 14, 1875	385	123	8	468
169, 307	Southard, Abraham M., Eldora, Iowa. Corn-planter.....	Oct. 26, 1875	960	311	8	722
162, 203	Southard, Eli F., Boston, Mass. Frame for open-work signs and banners.....	Apr. 20, 1875	568	186	7	664
160, 794	Southwick, Albert H., San Francisco, Cal. Wind-mill.....	Mar. 16, 1875	522	168	7	437
	Southworth, John H., et al. (See Blaisse, George F., assignor.)					
	Southworth, M. A. (See Bull, Henry C., assignor.)					
	Sower Brothers. (See Sower, Morris, assignor.)					
169, 308	Sower, Morris, assignor to Sower Brothers, Princeton, Ill. Middlings-purifier.....	Oct. 26, 1875	961	311	8	722
159, 774	Sowle, John, Boston, Mass. Window-curtain cornice.....	Feb. 16, 1875	521	173	7	269
164, 051	Spacht, William M., Dunkirk, Ohio. Railway-rail joint.....	June 1, 1875	185	66	7	956
167, 278	Spafford, Noah N., Strongsville, Ohio. Car-coupling.....	Aug. 31, 1875	1077	336	8	384
160, 847	Spahn, Joseph M., Chicago, Ill. Beer-vent.....	Mar. 16, 1875	563	183	7	443
168, 537	Spain, Job, North Lewisburgh, Ohio. Sulky-cultivator.....	Oct. 5, 1875	201	66	8	592
166, 564	Spalding, William, Petersburg, Mich. Hoop-fastening.....	Aug. 10, 1875	367	112	8	259
6, 318	Spang, Henry W., Reading, Pa. Electric railway-signal apparatus..... (Reissue)	Mar. 2, 1875	233	79	7	382
6, 476	Same..... Circuit and circuit-closer for railway-signaling apparatus..... (Reissue)	June 1, 1875	221	77	7	960
				{ 123 124 125 }	7	991
164, 227	Same..... Electric railway-signal.....	June 8, 1875	359			
164, 228	Same..... same.....	June 8, 1875	366	125	7	991
164, 778	Same..... same.....	June 22, 1875	888	290	7	1078
167, 415	Same..... Lightning-rod.....	Sept. 7, 1875	33	10	8	411
168, 058	Same..... Electric railway-signal.....	Sept. 21, 1875	631	202	8	512
168, 059	Same..... same.....	Sept. 21, 1875	634	{ 203 204 }	8	513
162, 112	Spangler, Jacob W., and Benjamin F. Reich, York, Pa. Washing-machine.....	Apr. 13, 1875	468	155	7	644
164, 229	Sparhawk, Frances C., Newburyport, Mass. Rein-holder.....	June 8, 1875	368	125	7	991
	Sparks, John W. (See Sparks, Silas and John W.)					
165, 266	Sparks, Silas and John W., Bowensville, Ohio. Hog-ringing apparatus.....	July 6, 1875	112	34	8	24
164, 882	Sparks, William H., Camden, N. J., assignor of one-half interest to Thomas D. Coulston, Philadelphia, Pa. Curtain-fixture.....	June 22, 1875	993	320	7	1091
169, 309	Same..... same.....	Oct. 26, 1875	962	312	8	723
	Sparrow, Benjamin F. (See Straw & Sparrow.)					
	Sparrow, Edmund S. (See Craig, Charles H., assignor.)					
	Sparrow, Herbert F. (See Straw & Sparrow, assignors.)					
163, 700	Sparrow, Warren, Hancock, Mass. Charcoal-kiln.....	May 25, 1875	933	296	7	900
166, 565	Spaulding, Herve, Springville, N. Y. Machine for cleaning card-cylinders.....	Aug. 10, 1875	367	113	8	259
	Spaulding, John F. (See Schneider, Conrad, assignor.)					
	Spaulding, Joseph W. (See Hatch, Joseph H., assignor.)					
164, 945	Spaulding, Stephen F., Jericho, Conn. Preparing veneers for butter-boxes.....	June 29, 1875	1069		7	1108
6, 206	Spear, James, Philadelphia, Pa. Base-burning stove..... (Reissue)	Jan. 5, 1875	188	65	7	35
6, 207	Same..... same.....	Jan. 5, 1875	190	65	7	35
163, 418	Same..... Fire-pot for stoves.....	May 18, 1875	664	212	7	857
163, 419	Same..... Stove.....	May 18, 1875	665	213	7	857
164, 046	Same..... same.....	June 1, 1875	179	64	7	958
171, 636	Spear, James E., jr., Melrose, Mass., assignor to George W. Simmons & Son. Helmet for firemen.....	Dec. 28, 1875	981	317	8	1105
165, 960	Spear, Thaddens H., Gardiner, Me. Machine for making toy torpedoes.....	July 27, 1875	827	254	8	158
162, 775	Spear, Vivian K., Lynn, Mass. Machinery for burnishing boot and shoe heels, &c.....	May 4, 1875	37	12	7	752

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161, 831	Spear, Wickham B., and Joseph W. Richards, Philadelphia, Pa. Process of purifying galvanizer's dross.	Apr. 6, 1875	212		7	599
161, 713	Spears, Emanuel, assignor of one-half interest to Christian Scherer, La Fayette, Ind. Tongue support.	Apr. 6, 1875	104	37	7	584
	Speck, Arthur A. (See Fetherston, Thomas, assignor.)					
	Speed, John I. (See Rhodes, Shillitto & Speed.)					
	Speer & Sons, Alexander. (See Wansbrough, Edmund, assignor.)					
	Speer, N. Q. (See Strawn, Thomas C., assignor.)					
159, 616	Speer, Reinhold, Newark, N. J. Shawl-strap bar.	Feb. 9, 1875	356	118	7	242
	Speer, W. W. (See Todd, George W., assignor.)					
165, 267	Speers, Leland M., and Abraham Clark, Newberry, S. C. Combined grave, coffin, and monument.	July 6, 1875	113	34	8	24
168, 060	Speir, Robert, Greenock, and John Mather, Gateshead-on-Tyne, North Britain. Apparatus for condensing vapors, gases, &c.	Sept. 21, 1875	640	204	8	513
167, 798	Spelman, Irwin H., Cortland, Ohio. Tire-setting machine.	Sept. 14, 1875	386	124	8	468
166, 229	Spencer, Abel, assignor of two-thirds interest to Martin S. Hicks, Penn Yan, N. Y. Rail-way-rail-joint fastening.	Aug. 3, 1875	41	13	8	205
159, 617	Spencer, Albert H., Boston, Mass. Portable horse-feeding support.	Feb. 9, 1875	356	118	7	242
166, 422	Spencer, Albert H., Boston, assignor to John J. Haley, Newton, and Henry C. Morse, Boston, Mass. Carpet-sweeper.	Aug. 3, 1875	224	68	8	230
163, 894	Spencer, Charles, East Greenwich, R. I. Stud for wagon-bodies.	June 1, 1875	48	16	7	937
	Spencer, Charles A. (See Clarke, Almon, assignor.)					
160, 624	Spencer, Charles F., Cleveland, Ohio. Tilting chair.	Mar. 9, 1875	341	115	7	406
171, 537	Spencer, Charles F., Rochester, N. Y. Lamp.	Dec. 28, 1875	872	285	8	1090
160, 478	Spencer, Charles L., Providence, R. I. Weft-thread knitting-machine.	Mar. 2, 1875	198	68	7	377
166, 423	Spencer, Christopher M., Hartford, Conn. Machine for shaping the heads of metal screws.	Aug. 3, 1875	224	68	8	230
165, 037	Spencer, Francis M., Mansfield, Pa. Photographic head-rest.	June 29, 1875	1143	369	7	1118
165, 038	Same. Camera-stand.	June 29, 1875	1144	369	7	1118
170, 200	Spencer, George F., assignor of one-half interest to John F. Yarnell, Francesville, Ind. Register.	Nov. 23, 1875	886	277	8	873
161, 173	Spencer, George H., Jersey City, N. J. Combined standard and spring.	Mar. 23, 1875	862	282	7	492
161, 832	Same. Turn-buckle.	Apr. 6, 1875	213	71	7	599
171, 637	Spencer, Henry R., New York, N. Y. Atomizer.	Dec. 28, 1875	981	317	8	1105
	Spencer, Joseph T. (See Gilmore & Spencer.)					
162, 707	Spencer, William F., Richmond, Ind. Settee.	Apr. 27, 1875	1060	338	7	733
162, 708	Same. Chair-seat.	Apr. 27, 1875	1061	338	7	733
166, 036	Spencer, William H., Brooklyn, N. Y. Manufacture of illuminating-gas.	July 27, 1875	898	277	8	168
166, 037	Same. Heating-retort for the manufacture of illuminating-gas.	July 27, 1875	899	.....	8	168
	Spendelow, Henry, et al. (See Milsom, George, assignor.)					
	Sperber, August. (See King & Sperber.)					
167, 858	Sperry, Barton E., Batavia, Ill. Polishing machine.	Sept. 21, 1875	457	144	8	486
165, 268	Spice, Robert P., Westminster, Great Britain. Gas-apparatus.	July 6, 1875	114	34	8	24
158, 993	Spicer, John P., Milestown, and Thomas Insull, assignors to selves and James F. Dovey, Philadelphia, Pa. Carriage-axle.	Jan. 19, 1875	619	205	7	124
	Spicer, Pratt A. (See Crossman, Montgomery, assignor.)					
170, 124	Spicer, Pratt A., assignor to Montgomery Crossman, Marshall, Mich. Pump for driven wells.	Nov. 16, 1875	790	251	8	853
	Spicer, Samuel. (See Myers & Spicer.)					
166, 902	Spicer, Samuel, Goodrich, Mich. Hame-fastener.	Aug. 17, 1875	695	215	8	314
	Spickler, William R., et al. (See Nugent, Richard C., assignor.)					
167, 279	Spiegel, Augustus, Indianapolis, Ind. Sofa-bed.	Aug. 31, 1875	1078	337	8	384
161, 642	Spier, James G., Peoria, Ill. Method of ageing liquors.	Apr. 6, 1875	47	18	7	575
165, 961	Spinney, William F., Chelsea, Mass. Heel-stiffener.	July 27, 1875	829	255	8	158
	Spire, George. (See Frank & Spire.)					
162, 776	Spire, George, assignor of one-half interest to Andrew H. Frank, Buffalo, N. Y. Planing-machine.	May 4, 1875	38	12	7	752
171, 185	Splitdorf, Henry, New York, N. Y. Insulating metal wire.	Dec. 14, 1875	501	165	8	1024
161, 833	Spofford, Charles, Boston, Mass., assignor to James H. Hoffman, New York, N. Y. Machine for folding and pasting collar ends.	Apr. 6, 1875	214	72	7	599
171, 586	Same. Machine for pasting and folding collar ends.	Dec. 28, 1875	916	300	8	1097
161, 563	Spooner, William A., Springfield, Mass. Pump-box.	Mar. 30, 1875	1256	405	7	551
170, 408	Spoor, David E., and Edward P. Searle, Medina, N. Y. Door-alarm.	Nov. 23, 1875	1072	338	8	899
6, 406	Spoor, Stephen, Troy, N. Y. Boiling-kettle. (Reissue.)	Apr. 27, 1875	1105	348	7	738
162, 864	Sprague, Austin V. M., Rochester, N. Y. Combined ice-pick, chisel, and hammer.	May 4, 1875	118	38	7	762
161, 564	Sprague, Edwin J., Youngstown, Ohio. Sash-weight.	Mar. 30, 1875	1257	405	7	551
162, 709	Sprague, Elwood J., Casadaga, N. Y. Gang-plow.	Apr. 27, 1875	1062	{ 338 } 339	7	733
159, 228	Sprague, George, Lockport, N. Y. Stove-lid lifter.	Jan. 26, 1875	856	279	7	164
163, 112	Sprague, Harvey, Churchville, assignor of one-half interest to William S. Brown, Le Roy, N. Y. Carriage-spring.	May 11, 1875	366	119	7	802
	Sprague, Jacob R. (See Cook, Isaac, assignor.)					
6, 828	Sprague, Watson N., South Framingham, assignor, by mesne assignments, to self and William W. Potter, Boston, Mass. Machine for making wooden shanks for boots and shoes. (Reissue.)	Dec. 28, 1875	992	320	8	1106
162, 426	Sprague, William F., assignor of one-half interest to Lewis Pond, Foxborough, Mass. Sewing straw braid.	Apr. 20, 1875	780	253	7	690
158, 652	Spratt, Henry W., London, England. Voting apparatus.	Jan. 12, 1875	282	94, 95	7	63
169, 123	Sprengard, Jacob, Cincinnati, Ohio. Cradle.	Oct. 26, 1875	795	257	8	699
162, 865	Sprigade, Rudolph, and John Schnoering, Brooklyn, N. Y. Folding table.	May 4, 1875	118	38	7	762
	Spring, Andrew, et al. (See Andrews & Tucker, assignors.) (Reissue.)					
	Spring, David V. (See Shelley, Bozarth & Spring.)					
	Spring, Samuel E., et al. (See Andrews & Tucker, assignors.) (Reissue.)					
162, 427	Springer, Amos C., San Francisco, Cal. Tap and faucet for barrels.	Apr. 20, 1875	781	254	7	690
160, 065	Springer, Jacob M., Indianapolis, Ind. Pump-sucker.	Feb. 23, 1875	802	265	7	315
6, 592	Springer, William A., Marlborough, Mass. Trimming and cutting attachment for sewing-machines. (Reissue.)	Aug. 10, 1875	483	{ 147 } 148	8	275
6, 593	Same. Trimming the edges of material while being sewed or stitched. (Reissue.)	Aug. 10, 1875	484	148	8	275
158, 813	Same. Cutting-attachment for sewing-machines.	Jan. 19, 1875	447	{ 148 } 149	7	102
169, 860	Same. Self-adjusting guide for sewing lap-seams in sewing-machines.	Nov. 9, 1875	543	169	8	812
	Springfield Iron Works. (See Thompson, William J., assignor.)					
179, 026	Springsteen, Benjamin R., Schodack Landing, N. Y. Tool for bending bale-hooks.	Nov. 16, 1875	696	219	8	841
	Sprogel, Charles B., et al. (See Frasch, Herman, assignor.)					
165, 694	Sprout, Lewis B., Muncy, Pa. Coal-stove.	July 20, 1875	559	171	8	109

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160, 289	Spurgin, Joseph B., and William J. Freeman, Kansas City, Mo. Machine for stuffing mattresses	Mar. 2, 1875	29	11	7	353
170, 601	Spurlin, William H., Hawkinsville, Ga. Moth-trap for bee-hives	Nov. 30, 1875	1270	400	8	934
171, 538	Spurr, Charles W., and Louis Prang, Boston, Mass. Process of preparing wood-veneering	Dec. 28, 1875	873	285	8	1090
169, 205	Spurrier, Henry E., Florence, Iowa. Stove	Oct. 26, 1875	859	2-0	8	709
6, 670	Squire, John J., Saint Louis, Mo., assignor to Adam R. Reese. Horse-rake... (Reissue)	Sept. 28, 1875	903	287	8	556
166, 566	Squires, Sidney, Boston, Mass. Sofa-bedstead	Aug. 10, 1875	368	113	8	259
159, 366	Stace, William R., assignor of one-half interest to Nicholas Wilkinson, Rochester, N. Y. Process of tanning pickled skins	Feb. 2, 1875	113	.....	7	200
158, 605	Stacey, Ephraim D., Corsicana, Tex. Combined cistern-top and filter	Jan. 12, 1875	240	81	7	58
165, 431	Stacey, Henry, Indianapolis, Ind. Nozzle for hydrocarbon furnaces	July 13, 1875	300	89	8	57
6, 523	Stackpole, Greenleaf, Elizabeth, N. J., assignor to Georgianna D. Collard. Shoe and glove buttoner... (Reissue)	June 29, 1875	1253	403	7	1134
161, 548	Stackpole, Greenleaf, Elizabeth, assignor to Georgiana D. Collard, Mont Clair, N. J. Combined boot and glove buttoner	Mar. 30, 1875	1241	399	7	549
165, 380	Stacy, George, assignor of two-thirds interest to Henry Mulholland and Harley D. Cowles, Montreal, Canada. Art of making chisel-pointed nails	July 6, 1875	221	66	8	39
166, 821	Stacy, George, assignor of one-half interest to Henry Mulholland, Montreal, Canada. Manufacture of cut nails	Aug. 17, 1875	616	191	8	304
167, 582	Stacy, John A., Cincinnati, Ohio. Fire-plug	Sept. 7, 1875	178	56	8	431
169, 738	Stacy, John A., and Samuel W. Lewis, Cincinnati, Ohio. Hydrant	Nov. 9, 1875	416	132	8	797
	Stafford, Daniel S., deceased, by Eliza S. Conklin, executrix, Decatur, Ill. Cultivator... (Extension)	Jan. 14, 1875	.....	.....	7	180
31, 133	Same..... same..... (Disclaimer filed)	Jan. 14, 1875	.....	.....	7	180
163, 895	Stafford, Frank, Cleveland, Ohio. Car-starter	June 1, 1875	49	17	7	937
158, 752	Stafford, Joseph, Galesburg, Ill. Wheel-cultivator	Jan. 12, 1875	265	125	7	75
161, 174	Stafford, Nelson, Bayonne, N. J. Key-ring	Mar. 23, 1875	863	282	7	492
	Stafford, William H. (See Reckhon & Stafford.)					
167, 033	Stagg, David L., New York, N. Y. Folding school-desk	Aug. 24, 1875	832	260	8	342
	Stahlman, Edward B. (See Darneby, William F., assignor.)					
161, 262	Stainback, William E., Somerville, Tenn. Obstetrical supporter	Mar. 30, 1875	1060	345	7	525
159, 618	Staley, Abram, assignor to self and Joseph L. Staley, Martin, Mich. Corn-planter	Feb. 9, 1875	357	118	7	242
6, 808	Staley, Franklin J., assignor, by mesne assignments, to Erastus O. Frink, Indianapolis, Ind. Head-block for saw-mills... (Reissue)	Dec. 14, 1875	550	180	8	1030
	Staley, Joseph L. (See Staley, Abram, assignor.)					
164, 109	Stamm, Julius, Covington, Ky. Sewing-machine shuttle	June 8, 1875	261	89	7	977
164, 110	Same..... Shuttle for sewing-machines	June 8, 1875	262	90	7	977
159, 974	Stamour, John B., assignor of one-half interest to Joseph Bilbrough, Philadelphia, Pa. Car-coupling	Feb. 16, 1875	703	234	7	293
164, 698	Stamour, John B., Philadelphia, Pa., assignor of one-half interest to Gruver Automatic Car Coupling Company, Baltimore, Md. Car-coupling	June 22, 1875	822	268	7	1069
165, 130	Stamp, William, Susquehanna Depot, Pa. Exhaust mechanism for locomotives	June 29, 1875	1225	394	7	1130
164, 662	Same..... Spark-arrester	June 22, 1875	786	258	7	1065
162, 320	Stamps, Lorenzo D., Galveston, Tex. Automatic fan	Apr. 20, 1875	673	220	7	677
170, 312	Stanberrie, Albert B., Philadelphia, Pa. Machine for separating substances of different specific gravity	Nov. 23, 1875	984	308	8	887
161, 175	Stancliffe, George, and Joseph Green, New York, N. Y. Hoisting and conveying coal, &c. Standard Lamp and Glass Pipe Company. (See Hoyt, Jonathan J., assignor.)	Mar. 23, 1875	864	{ 282 } { 283 }	7	492
	Standfield, John. (See Clark & Standfield.)					
159, 367	Standish, Philander H., Jefferson City, Mo. Machine for coiling metal rods	Feb. 2, 1875	113	39	7	200
159, 619	Standish, Philander H., assignor to self and J. H. Bodine, Jefferson City, Mo. Die for making chain-swivels	Feb. 9, 1875	358	118	7	242
163, 949	Standish, Philander H., Jefferson City, Mo. Device for welding chain-links	June 1, 1875	93	31	7	943
170, 313	Same..... Tuyere	Nov. 23, 1875	985	308	8	887
167, 625	Stanford, Charles P., San Francisco, Cal. Ore-feeder	Sept. 14, 1875	230	72	8	445
159, 853	Stanford, Daniel T., New Egypt, N. J. Cranberry-separator	Feb. 16, 1875	592	196	7	278
159, 286	Staniforth, William, assignor to William H. Smith and William G. Hall, Sheffield, England. Revolving pocket-knife	Feb. 2, 1875	39	14	7	190
163, 540	Stanion, Judson A., Cleveland, Ohio. Printer's lead and rule cutter	May 18, 1875	782	248	7	872
	Stanley, Benjamin F., et al. (See Dickerson, Samuel H., assignor.)					
168, 933	Stanley, Henry, Saint Johnsbury, Vt. Handle for boring-tools	Oct. 19, 1875	595	197	8	665
161, 236	Stanley, Ira N., assignor to self and Edward D. White, Brooklyn, N. Y. Process and apparatus for the manufacture of gas	Apr. 6, 1875	217	73	7	600
171, 587	Stanley, James, Newark, N. J. Bridle-bit	Dec. 28, 1875	917	301	8	1097
166, 314	Stanley, John H., Chicago, Ill. Sewer-junction indicator	Aug. 3, 1875	119	37	8	216
	Stanley Rule and Level Company. (See Miller, Charles G., assignor.)					
163, 701	Stanley, William E., Montezuma, Ga. Row-gage for plows	May 25, 1875	934	297	7	900
	Stanley Works. (See Adt, John, assignor.)					
167, 202	Stannard, Monroe, Hartford, Conn. Hydraulic adjustable press	Aug. 31, 1875	1014	315	8	375
	Stansbury, Alexander F. (See Stansbury, Thomas M. and Alexander F.)					
	Stansbury, James E. (See Hamilton, Thomas H., assignor.)					
166, 944	Stansbury, Thomas M. and Alexander F., Canton, Ill. Machine for bending tires	Aug. 24, 1875	748	232	8	331
158, 537	Stansbury, William K., Detroit, Mich. Crosscut-saw handle	Jan. 5, 1875	162	55	7	31
168, 798	Stanton, Bradley W., Almena, Mich. Wagon-jack	Oct. 11, 1875	458	149	8	637
170, 201	Stanton, Daniel P., Centerville, R. I. Pipe-wrench	Nov. 23, 1875	887	277	8	873
167, 032	Stanton, Ephraim W., and Thomas M. Riley, Philadelphia, Pa. Commode-ventilator	Aug. 24, 1875	831	259	8	342
160, 479	Stanton, William, Erie, Pa. Grain-conveyor	Mar. 2, 1875	199	68, 69	7	377
160, 725	Staples, Hiram, Battle Creek, Mich. Tool-handle	Mar. 9, 1875	433	144	7	419
161, 643	Staples, John H., Chelsea, assignor, by mesne assignments, of one-half interest to John Clapp, South Braintree, Mass. Water-wheel	Apr. 6, 1875	47	18	7	576
	Star Manufacturing Company. (See Travis, Charles L., assignor.)					
159, 464	Starbuck, George H., Troy, N. Y. Friction-clutch	Feb. 2, 1875	210	68	7	213
163, 820	Starbuck, George H., Troy, N. Y. Sectional steam-generator	May 25, 1875	1035	328	7	914
169, 203	Stark, John D., Brooklyn, N. Y. Car-axle lubricator	Oct. 26, 1875	858	279	8	709
	Stark, Michael J., et al. (See Gallaway, George, assignor.)					
166, 230	Stark, Theodore C., Vallejo, Cal. Steam-plow	Aug. 3, 1875	41	13	8	205
160, 036	Starkey, Nahum, Amesbury, Mass. Jump-seat for carriages	Feb. 23, 1875	781	258	7	311
162, 256	Starks, Daniel C., Hermitage, N. Y. Pump for hydraulic presses	Apr. 20, 1875	618	201	7	670
162, 257	Same..... Cider-press	Apr. 20, 1875	618	{ 201 } { 202 }	7	670
165, 626	Starkweather, John B., assignor of part interest to C. A. Bierce, J. H. Jenkins, and Frank A. Johnston, Winona, Minn. Door-spring	July 13, 1875	485	147	8	84
	Starkweather, Leonard B. (See Mills, Christopher S., assignor.)					
162, 963	Starliper, William M., Henry, Ill. Corn-row marker	May 4, 1875	214	69	7	775

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 513	Starnes, Philip S., assignor to Darnall & Womacks, Pink Hill, Mo. Corn planter and cultivator	July 13, 1875	379	{ 112 113 }	8	68
160, 965	Starr, Eben T., New York, assignor to Henry C. Morgan, Brooklyn, N. Y. Toy fire-arm.	Mar. 16, 1875	665	217	7	457
162, 777	Starr, Eben T., New York, N. Y. Toilet-mirror.	May 4, 1875	39	12	7	752
	Starr, Eli T. (See Buckingham, Starr & White.)					
159, 048	Starr, Eli T., assignor to Samuel S. White, Philadelphia, Pa. Apparatus for protecting and moistening the disks of dental instruments	Jan. 26, 1875	692	228	7	141
167, 203	Same.....Dental plugger	Aug. 31, 1875	1015	316	8	375
169, 382	Same.....Adjustable bracket	Nov. 2, 1875	60	18	8	743
169, 383	Same.....Ball-and-socket joint	Nov. 2, 1875	61	18	8	743
169, 384	Same.....Shield attachment for bulb-syringes, atomizers, &c.	Nov. 2, 1875	62	18	8	743
170, 125	Same.....Hand-piece for dental engines	Nov. 16, 1875	791	251	8	853
171, 443	Same.....Dental chair	Dec. 21, 1875	765	252	8	1067
171, 539	Same.....Head-rest for dental chairs	Dec. 22, 1875	873	285	8	1090
	Starr, Henry D. (See Minton, Stephen D., assignor.)					
6, 213	Starr, Henry D., assignor of one-half interest to Rice S. Flournoy, Texana, Tex. Wash- ing-machine	Jan. 5, 1875	197	67	7	36
	Starr, Jesse W., et al. (See Slaney, John M., assignor.)					
168, 799	Starr, Jesse W., jr., Camden, N. J., assignor to Jesse W. and Jesse W. Starr, jr. Ver- tical bar for gas-holders	Oct. 11, 1875	459	150	8	637
170, 912	Starr, Wilbur F., East Hampton, Conn. Toy trundle and bell	Dec. 7, 1875	227	78	8	981
6, 440	Starr, William F., St. John, Canada. Car-coupling	May 18, 1875	814	257	7	876
159, 975	Same.....same	Feb. 16, 1875	704	234	7	293
163, 113	Starrett, La Roy S., Athol Depot, Mass. Car-window	May 11, 1875	367	119	7	803
167, 799	Stattman, Christian, New York, N. Y. Combined collar and muff	Sept. 14, 1875	387	124	8	468
166, 903	Staub, Joseph P., Greenville, Ill. Child's carriage	Aug. 17, 1875	696	{ 215 216 }	8	314
167, 949	Stauffer, John, assignor to Thomas R. Fuller, Toronto, Canada. Sash-holder	Sept. 21, 1875	526	168	8	597
	Stauffer, William M., et al. (See Wemyss, Alexander, assignor.)					
	Staughton, Neville. (See Gard & Staughton.)					
170, 126	Steadman, Enoch, Covington, Ga. Churn-dasher	Nov. 16, 1875	792	251	8	854
	Steadman, Samuel M. (See McCaffrey, John, jr., assignor.)					
167, 583	Stearns, Albert, Brooklyn, N. Y. Machine for trimming boxes	Sept. 7, 1875	180	56	8	431
	Stearns, Amos C. (See Hungerford, Fayette, assignor.)					
165, 183	Stearns, Charles A., Boston, Mass., assignor to self, William H. Torbert, Philadelphia, Pa., and Edmund B. Vannevar and C. H. Dolbear, Boston, Mass. Electric signal ap- paratus for steam-vessels	July 6, 1875	39	11, 12	8	14
171, 326	Stearns, George S., Cincinnati, Ohio. Corner-joint for boxes	Dec. 21, 1875	659	217	8	1053
	Stearns, Henry A. (See Bucklin & Stearns.)					
166, 231	Stearns, Henry A., Lincoln, R. I. Reciprocating churn-dasher	Aug. 3, 1875	43	14	8	205
6, 508	Stearns, Joseph B., Boston, Mass., assignor to Western Union Telegraph Company. Duplex telegraph and circuit therefor	June 22, 1875	1023	330	7	1094
168, 538	Stearns, Junius B., jr., assignor of one-half interest to Sylvester L. Stearns, New York, N. Y. Sewing-case	Oct. 5, 1875	201	66	8	593
168, 934	Stearns, Otis W., Johnson, Vt. Eave-trough	Oct. 19, 1875	596	197	8	665
	Stearns, Sylvester L. (See Stearns, Junius B., jr., assignor.)					
8, 003	Stearns, Thomas J., assignor to Roxbury Carpet Company, Boston, Mass. Carpet. (Design)	Jan. 12, 1875			7	48
8, 192	Same.....same	Mar. 2, 1875			7	48
8, 253	Same.....same	Mar. 30, 1875			7	516
8, 404	Same.....same	June 15, 1875			7	1014
8, 405	Same.....same	June 15, 1875			7	1014
8, 457	Same.....same	July 6, 1875			8	4
8, 561	Same.....same	Aug. 10, 1875			8	241
8, 691	Same.....same	Oct. 5, 1875			8	561
8, 780	Same.....same	Nov. 9, 1875			8	776
8, 798	Same.....same	Nov. 16, 1875			8	819
8, 883	Same.....same	Dec. 28, 1875			8	1076
164, 492	Stearns, Willard W., Norwich, Conn. Spinning-ring	June 15, 1875	628	203	8	1034
158, 606	Stearns, William, Manchester, N. H. Loom-picking mechanism	Jan. 12, 1875	241	81	7	58
	Stebbins, George M. (See Sawyer, Willard W., assignor.)					
	Stebbins, Solomon J., et al. (See Shine, Patrick H., assignor.)					
6, 459	Stebbins, Timothy, San Francisco, Cal. Hydraulic elevator	May 25, 1875	1070	337	7	918
170, 781	Stebbins, Timothy, Boston, Mass. Hydraulic elevator	Dec. 7, 1875	116	37	8	966
171, 060	Stechhan, Otto, Indianapolis, Ind. Folding lounge	Dec. 14, 1875	284	127	8	1008
168, 424	Steckel, Edward M., Hutztown, Pa. Hay-tedder	Oct. 5, 1875	93	32	8	578
162, 322	Steckler, Henry, jr., New Iberia, La. Cotton-seed drill	Apr. 20, 1875	674	220	7	677
	Stedman, Charles. (See Webber & Stedman.)					
6, 261	Stedman, Edward E., Ravenna, Ohio. Pruning-implement	Jan. 26, 1875	887	287	7	168
161, 837	Stedman, Elihu P., Ravenna, Ohio. Carriage-top	Apr. 6, 1875	219	73	7	600
166, 728	Same.....Shifting-rail for carriages	Aug. 17, 1875	535	164	8	291
166, 424	Stedman, Oscar F., Westfield, N. Y. Clothes-pounder	Aug. 3, 1875	225	68	8	230
	Stedwell, George H. (See Hathaway, Samuel A., assignor.)					
	Steel, Alexander, et al. (See Beasley, Charles J., assignor.)					
	Steel, Alexander. (See Tappey, Steel & Beasley.)					
	Steel Centered Calk and Set Screw Company. (See Stone, Samuel, assignor.)					
169, 125	Steel, Charles F., New York, N. Y. Postage-stamp	Oct. 26, 1875	796	258	8	700
170, 603	Steel, Robert, and Thomas P. McCadden, Philadelphia, Pa. Toy chromatrope	Nov. 30, 1875	1272	400	8	934
170, 969	Steel, Robert, and Samuel Austin, assignors of one-third interest to Charles J. Miller, Philadelphia, Pa. Hand-motor for street-cars	Dec. 14, 1875	303	101	3	998
160, 966	Steel, Samuel S., and Shubal Munson, Martin, Ohio. Machine for crozing barrels	Mar. 16, 1875	666	{ 217 218 }	7	457
167, 704	Steel, Samuel S., Martin, and George W. Reel, Woodville, Ohio. Crozing and leveling tool	Sept. 14, 1875	297	94	8	455
8, 710	Steele, Elbridge J., Westville, assignor to Blake Brothers Hardware Company, New Haven, Conn. Butt-hinge	Oct. 11, 1875			8	600
8, 711	Same.....Latch-handle	Oct. 11, 1875			8	600
8, 712	Same.....Drawer-pull	Oct. 11, 1875			8	600
8, 762	Same.....Shelf-bracket	Oct. 26, 1875			8	689
166, 567	Steele, Ferdinand, Brooklyn, N. Y. Pressure-regulator for water-pipes	Aug. 10, 1875	369	113	8	230
167, 950	Steele, Ferdinand, assignor to American Steam and Water Recorder Company, Brooklyn, N. Y. Dash-pot for engines	Sept. 21, 1875	527	169	8	498
160, 480	Steele, George, Mott Haven, N. Y. Steam-jet for furnaces	Mar. 2, 1875	200	69	7	317
	Steele, George T. (See Parsons, Thomas D., assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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168, 935	Steele, James G., San Francisco, Cal. Process of making poisonous compositions for destroying gophers, squirrels, &c.	Oct. 19, 1875	596		8	665
169, 925	Same..... Composition for the destruction of vermin.....	Nov. 16, 1875	614	.....	8	830
163, 340	Steele, Michael H., Cleveland, Ohio. Apparatus for steaming grain.....	May 18, 1875	599	{ 191 192 }	7	849
165, 515	Steele, Richard M., assignor to self and R. J. Hunt, Romulus, N. Y. Coal-scuttle.....	July 13, 1875	381	113	8	68
167, 034	Steele, Samuel W., and Joseph Bayer, Northfield, Vt. Process of marb eizing surfaces.....	Aug. 24, 1875	833	.....	8	343
162, 868	Steers, Thomas, jr., Ottawa, Canada. Curry-comb.....	May 4, 1875	121	39	7	763
162, 321	Steffany, Francis, Brooklyn, N. Y. Watch-case.....	Apr. 20, 1875	673	220	7	677
169, 053	Steffens, Johann, G. W., Brooklyn, N. Y. Composition for ornaments.....	Oct. 19, 1875	706	.....	8	680
158, 538	Steffens, Nikolaus, New York, N. Y. Flower-frame.....	Jan. 5, 1875	163	55	7	32
158, 751	Stein, Albert H. (See Kutz, Sebastian, assignor.)					
167, 584	Stein, David J., New York, N. Y. Book-rack.....	Jan. 12, 1875	264	124	7	75
167, 584	Same..... Portfolio-stand.....	Sept. 7, 1875	182	56	8	431
159, 976	Stein, William. (See Wilson, Stephen D., assignor.)					
167, 132	Steinbach, George P., Baltimore, Md. Child's walking-chair.....	Feb. 16, 1875	705	234	7	203
162, 585	Steiner, John, Mendon, Cal. Wagon-wheel.....	Aug. 24, 1875	927	289	8	356
8, 721	Steiner, John H., Albany, N. Y. Fire-extinguisher.....	Apr. 27, 1875	943	303	7	719
8, 721	Steinhaus, William, assignor of one-half interest to Otto Frickenhaus, New York, N. Y. Embroidery-pattern.....					
8, 722	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 723	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 724	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 725	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 726	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 727	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 728	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 729	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 730	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 731	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 732	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 733	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 734	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 735	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 736	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 737	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 738	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 739	Same..... same..... (Design).....	Oct. 19, 1875	.....	.....	8	645
8, 740	Same..... same..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 750	Same..... same..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 751	Same..... same..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 752	Same..... same..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 753	Same..... Crochet-pattern..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 754	Same..... same..... (Design).....	Oct. 26, 1875	.....	.....	8	689
8, 781	Steinhaus, William, New York, assignor of one-half interest to Otto Frickenhaus, Brooklyn, N. Y. Crochet-pattern.....					
8, 825	Same..... Pattern-sheet for embroidery..... (Design).....	Nov. 9, 1875	.....	.....	8	776
8, 826	Same..... same..... (Design).....	Dec. 7, 1875	.....	.....	8	945
158, 994	Steinmetz, Uriah G., Philadelphia, Pa. Umbrella.....	Jan. 19, 1875	620	206	7	124
163, 821	Same..... Folding umbrella.....	May 25, 1875	1036	328	7	914
164, 052	Steinway, Albert, New York, N. Y. Piano attachment.....	June 1, 1875	186	66, 67	7	956
164, 053	Same..... same.....	June 1, 1875	187	67	7	956
164, 054	Same..... same.....	June 1, 1875	188	68	7	956
8, 782	Steinway, Christian F. T., New York, N. Y. Metal frame in pianos..... (Design).....	Nov. 9, 1875	.....	.....	8	777
170, 645	Same..... Grand piano-forte action.....	Nov. 30, 1875	1309	413	8	940
170, 646	Same..... Agraffe for piano-fortes.....	Nov. 30, 1875	1309	414	8	940
170, 647	Same..... Metal frame for piano-fortes.....	Nov. 30, 1875	1310	414	8	940
159, 620	Steller, Charles E., Milwaukee, Wis. Blind-stop.....	Feb. 9, 1875	358	119	7	242
165, 269	Same..... same.....	July 6, 1875	115	35	8	24
167, 626	Stellwagen, Jacob B., Frankfurth, Ill. Tool for setting tubes in artesian wells.....	Sept. 14, 1875	232	72	8	445
158, 995	Stellwagen, Phillip, et al. (See Galloway, George, assignor.)					
161, 909	Stem, Samuel E. (See Klingler, Bolender & Stem.)					
170, 409	Stenberg, John A., Chicago, Ill. Liquid and gas meter and motor.....	Jan. 19, 1875	621	206	7	124
167, 037	Same..... Rotary engine and meter.....	Apr. 13, 1875	292	98	7	622
162, 586	Stentz, Henry, Harrisburgh, Pa. Car-brake shoe.....	Nov. 23, 1875	1073	338	8	899
167, 037	Stephan, Ferdinand. (See Fallis, Isaac L., assignor.)					
162, 586	Stephan, John J., Boston, Mass. Step-ladder.....	Aug. 24, 1875	834	260	8	343
168, 425	Stephans, William, New York, N. Y. Mode of inlaying jet with metal.....	Apr. 27, 1875	944	303	7	719
168, 294	Stephens, Henry. (See Boyle & Stephens.)					
167, 133	Stephens, Henry, Brooklyn, N. Y. Manufacture of mail-bags.....	Oct. 5, 1875	93	32	8	578
158, 539	Stephens, Horace A., et al. (See Hall, Nehemiah, assignor.)					
163, 341	Stephens, Lawrence E., and Samuel F. Shay, Terrell, Tex. Windmill.....	Sept. 28, 1875	870	278	8	552
167, 800	Stephens, Lorenzo D., Gold Run, Cal. Ore-washer.....	Aug. 24, 1875	928	289	8	356
167, 800	Stephens, Melvin, Brooklyn, N. Y. Cement-pipe.....	Jan. 5, 1875	163	56	7	32
167, 800	Same..... Device for connecting, holding, and punching sections of sheet-metal pipe.....	May 18, 1875	600	172	7	849
167, 416	Stephens, William A., Succasunna Plains, N. J. Furnace for the manufacture of iron and steel direct from ore.....	Sept. 14, 1875	388	124	8	468
160, 795	Stephenson, Albert, Saint Louis, Mo. Ticket-reel.....	Sept. 7, 1875	35	10	8	411
170, 202	Stephenson, Howard B., assignor to Charles Houghton, Boston, Mass. Metallic roband for attaching sails to spars.....	Mar. 16, 1875	523	168	7	438
159, 049	Stephenson, Howard B., Troy, N. Y., assignor to William H. Bennett. Temporary binder.....	Nov. 23, 1875	887	277	8	873
6, 427	Stephenson, James M., Pendleton, Ind. Wheel for vehicles.....	Jan. 26, 1875	693	229	7	141
6, 428	Stephenson, John, New York, N. Y. Street-car..... (Reissue).....	May 11, 1875	545	174	7	826
6, 429	Same..... same..... (Reissue).....	May 11, 1875	546	174	7	826
6, 696	Same..... same..... (Reissue).....	May 11, 1875	547	175	7	826
6, 697	Same..... same..... (Reissue).....	Oct. 11, 1875	488	158	8	642
161, 565	Same..... same..... (Reissue).....	Oct. 11, 1875	490	159	8	642
161, 566	Same..... same.....	Mar. 30, 1875	1258	405	7	551
161, 567	Same..... same.....	Mar. 30, 1875	1259	405	7	551
161, 568	Same..... same.....	Mar. 30, 1875	1261	406	7	551
161, 569	Same..... Signaling device for street-cars.....	Mar. 30, 1875	1262	406	7	552
161, 570	Same..... Street-car platform.....	Mar. 30, 1875	1263	406	7	552
161, 570	Same..... Street-car body.....	Mar. 30, 1875	1264	406	7	552

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162, 964	Stephenson, John, New York, N. Y. Street-car	May 4, 1875	214	69	7	775
167, 585	Same..... same	Sept. 7, 1875	183	57	8	431
160, 361	Stephenson, Michael, Stratford, Canada. Portable drilling-machine	Mar. 2, 1875	92	34	7	362
171, 588	Stephenson, Squire N., Richmond, Tenn. Horseshoe and swage	Dec. 28, 1875	918	301	8	1097
169, 124	Stephenson, William P., Waverly, Iowa. Lubricator	Oct. 26, 1875	795	258	8	700
169, 038	Stepp, Henrietta G., Somerville, Mass. Lap-board	July 27, 1875	899	277	8	168
	Stepp, Jacob. (See Grasser & Stepp.)					
	Sterling School Furniture Company. (See Presbrey, Charles H., assignor.)					
	Sterling Treadle Company. (See Sterling, Elliott, assignor.)					
171, 444	Stern, Bernhard and Herman, Chattanooga, Tenn. Steam candy-heater	Dec. 21, 1875	765	252	8	1067
	Stern, Herman. (See Stern, Bernhard and Herman.)					
160, 726	Stern, Isaac N., Keokuk, Iowa. Alkali for soap	Mar. 9, 1875	433	.....	7	419
	Sternberger, Leopold. (See Pfautz & Sternberger.)					
169, 054	Sternberger, Leopold, Philadelphia, Pa. Starching-machine	Oct. 19, 1875	706	233	8	680
	Sternbergh, J. H., et al. (See Adgate, Joseph J., assignor.)					
6, 765	Sterry, Francis A., Canton, Mass. Means for adjusting spindles in ring spinning-machines	Nov. 23, 1875	1103	346	8	904
166, 155	Sterry, George E., New York, N. Y. Compound for flavoring and preserving tobacco	July 27, 1875	1016	.....	8	186
168, 800	Sterzing, Fred, Austin, Tex. Flat-iron	Oct. 11, 1875	459	150	8	637
	Stetson, George H. (See Gates, Samuel L., assignor.)					
160, 362	Stetson, George R., New Bedford, Mass. Screw-plate	Mar. 2, 1875	93	34	7	362
167, 035	Same..... Screw-cutting die	Aug. 24, 1875	833	260	8	343
167, 705	Stetson, Thomas D., New York, N. Y., assignor to E. and T. Fairbanks & Company, Saint Johnsbury, Vt. Weighing-scales	Sept. 14, 1875	298	94, 95	8	455
160, 967	Stetter, George, Hoboken, N. J., assignor to Mulford, Hale & Cottle, New York, N. Y. Die for making metallic bases for jewelry	Mar. 16, 1875	667	218	7	457
	Stevens, Anthony. (See Stevens, Benjamin D., assignor.)					
171, 186	Stevens, Asher B., assignor of one-half interest to Henry S. Hale, Artemus Kilburn, J. Warren Hale, Cheney Kilburn, and Warren Hale, Philadelphia, Pa. Chair	Dec. 14, 1875	501	166	8	1024
160, 796	Stevens, Benjamin A., Toledo, Ohio. Beer-cooler	Mar. 16, 1875	524	169	7	438
167, 706	Same..... Refrigerator	Sept. 14, 1875	299	95	8	456
170, 602	Same..... same	Nov. 30, 1875	1271	400	8	934
160, 482	Stevens, Benjamin D., Lawrence, assignor, by mesne assignments of one-half interest to Anthony Stevens, Boston, Mass. Door-plate	Mar. 2, 1875	202	69	7	377
	Stevens, Benjamin F. (See James, Eben, assignor.)					
	Stevens, Charles B. (See Eddy, George W., assignor.)					
	Stevens Company, J. & E. (See Frisbee, Russell, assignor.)					
164, 663	Stevens, David E., and Richard F. Lumley, Newark, Ohio. Fruit-jar	June 22, 1875	787	258	7	1065
165, 962	Stevens, David E., and Richard F. Lumley, assignors to David E. Stevens, Newark, Ohio. Fruit-jar	July 27, 1875	830	255	8	158
164, 493	Stevens, Edgar M., Boston, Mass. Loom-shuttle	June 15, 1875	629	203	7	1034
160, 968	Stevens, Elisha, Cromwell, Conn. Lamp-pendant	Mar. 16, 1875	668	218	7	458
169, 492	Stevens, Francis B., Hoboken, N. J. Boiler-covering	Nov. 2, 1875	152	50	8	756
158, 996	Stevens, George D., East Orange, N. J. Sling for elevating packages	Jan. 19, 1875	623	206	7	124
	Stevens, George L., et al. (See Jewell, Tyron J. M., assignor.)					
165, 184	Stevens, George M., assignor of one-fourth interest to Horace M. Stevens, Cleveland, Ohio. Railway-sprinkler	July 6, 1875	41	12	8	14
171, 540	Stevens, Grenville M., Deering, Me. Lamp	Dec. 28, 1875	874	286	8	1090
168, 801	Stevens, Hennell, Brazoria, Tex. Apparatus for cutting glue	Oct. 11, 1875	460	150	8	637
168, 802	Same..... Process for preparing and drying glue	Oct. 11, 1875	461	150	8	637
	Stevens, Hiram. (See Williams, John E., assignor.)					
162, 502	Stevens, Hiram, New Haven, Conn. Safety-valve	Apr. 27, 1875	875	280	7	710
161, 910	Stevens, Hiram K., and Oscar F. Morse, Providence, R. I. Ventilator	Apr. 13, 1875	293	99	7	622
	Stevens, Horace M. (See Stevens, George M., assignor.)					
165, 270	Stevens, John, Port Byron, N. Y., assignor of two-thirds interest to J. L. Davis and T. B. Dickey, Paper vessel	July 6, 1875	116	35	8	25
167, 479	Stevens, John, Orange, N. J. Pocket-lantern	Sept. 7, 1875	86	27	8	418
	Stevens, John C. (See Jordan & Stevens.)					
163, 274	Stevens, John L., Chicago, Ill. Egg-carrier	May 11, 1875	516	167	7	821
170, 410	Stevens, John L., assignor to Billings, Coburn & Co., Chicago, Ill. Box-lid fastening	Nov. 23, 1875	1073	338	8	899
	Stevens, Nathan P. (See Lauder, James N., assignor.)					
159, 527	Stevens, Nathan P., Hopkinton, N. H. Bridle-bit	Feb. 9, 1875	291	94	7	232
167, 038	Same..... Machine for dressing valve-seats, &c	Aug. 24, 1875	835	261	8	343
	Stevens, Roberts & Havell. (See Weston, Edward, assignor.)					
160, 552	Stevens, Samuel, New York, N. Y. Tooth-brush	Mar. 9, 1875	279	95	7	398
	Stevens, Sidney A. (See Fraser, E. J., assignor) (reissue.)					
160, 481	Stevens, William, Northampton, England. Machine for making boot and shoe heels	Mar. 9, 1875	201	69	7	377
168, 852	Stevens, William K., assignor of two-thirds interest to James A. and John B. Niman, Mansfield, Ohio. Pipe-wrench	Oct. 19, 1875	518	170	8	654
167, 036	Stevenson, Augustus, Kittery, Me. Keel for boats	Aug. 24, 1875	834	260	8	343
166, 425	Stevenson, Elisha M., Pulaski Township, Pa. Petroleum-well	Aug. 3, 1875	226	68, 69	8	230
168, 803	Stevenson, George B., Upper Sandusky, Ohio. Steam-engine	Oct. 11, 1875	462	151	8	638
161, 291	Stevenson, John, Brooklyn, N. Y. Setting basins	Mar. 23, 1875	978	320	7	507
	Stevenson, John A., et al. (See Bell, A. John, assignor) (Reissue.)					
160, 123	Stevenson, John A., assignor of one-half interest to John J. Kline, Belvidere, N. J. Spring for seats, &c	Feb. 23, 1875	854	282	7	322
165, 888	Stevenson, William B., Philadelphia, Pa. Attaching T-squares to drawing-boards	July 20, 1875	746	228	8	135
167, 134	Stevenson, William M., assignor of one-half interest to William McGilvray, Sharon, Pa. Rotary engine	Aug. 24, 1875	929	290	8	356
167, 707	Stevenson, William W., and Isaac Nuttall, Taunton, Mass. Picker-staff check	Sept. 14, 1875	301	95	8	456
168, 061	Steventon, Albert N., and Thomas F. McGrath, Newark, assignors to John R. McPherson, Jersey City, N. J. Stock-car	Sept. 21, 1875	643	204	8	513
164, 230	Stever, Jeremiah, Bristol, assignor of one-half interest to Isaac E. Newton, Waterbury, Conn. Vapor-burner	June 8, 1875	369	126	7	992
163, 613	Steward, John F., Plano, Ill. Revolving stereoscope	May 25, 1875	864	272	7	890
171, 061	Same..... Stereoscope	Dec. 14, 1875	285	127	8	1009
165, 185	Stewart, Alexander W., Boston, Mass. Folding rocking-chair	July 6, 1875	42	13	8	14
166, 232	Stewart, Alexander W., Boston, assignor to John J. Haley, Newton, and Henry C. Morse, Boston, Mass. Carpet-sweeper	Aug. 3, 1875	43	14	8	205
166, 726	Stewart, Alexander W., Boston, Mass. Folding rocking-chair	Aug. 17, 1875	533	163	8	291
165, 963	Stewart, Alson C., Walton, N. Y. Feed-cutter	July 27, 1875	830	255	8	158
	Stewart & Mattson. (See Heysinger, Isaac W., assignor.)					
	Stewart & Young. (See Roth, John, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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165, 514	Stewart, Charles F. and Milton, Muncie, Ind. Straw-cutter	July 13, 1875	380	113	8	68
161, 571	Stewart, Edward, Fort Madison, Iowa. Car-brake	Mar. 30, 1875	1265	407	7	552
169, 861	Stewart, Hugh E., Mercer, Pa. Process of forming blackboards or slates	Nov. 9, 1875	545	.....	8	812
6, 698	Stewart, Isaac W., New York, N. Y. Diaper-pin	Oct. 11, 1875	491	159	8	642
161, 714	Stewart, Jacob, Moline, Ill. Damper	Apr. 6, 1875	104	37	7	584
167, 859	Stewart, James, Washington, D. C. Paper-ruling machine	Sept. 21, 1875	458	144	8	486
	Stewart, James O., <i>et al.</i> (See Nevin, David, assignor.)					
160, 727	Stewart, John J., Sargentville, Md. Pegging-jack	Mar. 9, 1875	434	144	7	419
159, 715	Stewart, John L., Ellicott City, Md. Railway-rail chair	Feb. 9, 1875	446	149	7	254
162, 965	Stewart, John L., Philadelphia, Pa. Petroleum-still	May 4, 1875	215	69	7	775
170, 644	Stewart, John W., Woodville, Tex., assignor of two-thirds interest to James K. Durham and John N. Goolsbee. Spectacle-frame	Nov. 30, 1875	1308	413	8	940
	Stewart, J. W., <i>et al.</i> (See Goolsbee, John N., assignor.)					
164, 335	Stewart, Lewis, Camp Hill, Pa. Horse-power	June 8, 1875	468	155	7	1004
166, 426	Stewart, Lyman, Titusville, Pa. Petroleum-well	Aug. 3, 1875	226	69	8	231
171, 589	Same. Packer for oil-wells	Dec. 22, 1875	919	301	8	1097
8, 490	Stewart, Mathew, Philadelphia, Pa. Gas-burner	July 20, 1875	.....	.....	8	95
	Stewart, Milton. (See Stewart, Charles F. and Milton.)					
	Stewart, Oscar J., <i>et al.</i> (See Nevin, David, assignor.)					
169, 493	Stewart, Robert, Barnesville, N. Y. Bale-tie	Nov. 2, 1875	153	50	8	756
	Stewart, S. C. (See Lees, David, assignor.)					
161, 292	Stewart, Uriah T., Rossville, Tenn. Seed-planter	Mar. 23, 1875	979	320	7	507
6, 553	Stewart, William, Hartford, Conn. Child's carriage	July 20, 1875	774	237	8	140
164, 336	St. George, George, jr., Philadelphia, Pa. Stitch-ripper	June 8, 1875	469	155	7	1005
163, 114	Stichter, Henry P., Pottsville, Pa. Step-ladder	May 11, 1875	368	120	7	803
163, 275	Stickle, Charles S., Grinnell, William P. Parker, Tama, and James D. Moore, Grinnell, Iowa; said Moore assignor to said Stickle and Parker. Harvester	May 11, 1875	517	168	7	822
159, 854	Stickles, Orrin J., Canton, N. Y. Milk-cooling apparatus	Feb. 16, 1875	592	196	7	278
170, 127	Stickney, Gage, Philadelphia, Pa. Cow-tail holder	Nov. 16, 1875	798	251	8	854
8, 292	Stidham, John, South Oil City, Pa. Toy	Apr. 27, 1875	.....	.....	7	701
	Stidolph, Thomas F., <i>et al.</i> (See Catchpole & Stidolph.)					
	Stiker, Flavius P. (See Firmenich & Stiker.)					
166, 904	Stileman, Richard T. H., Philadelphia, Pa. Steam-fire-engine hydrant	Aug. 17, 1875	697	216	8	314
	Stiles and Parker Press Company. (See Stiles, Norman C., assignor.)					
159, 465	Stiles, David D., Rochester, N. Y. Stove	Feb. 2, 1875	211	69	7	214
167, 586	Stiles, Elizabeth W., Philadelphia, Pa. Reading and writing desk	Sept. 7, 1875	184	57	8	431
6, 530	Stiles, John W., New York, N. Y. Pressure-gage	July 6, 1875	252	75	8	42
	Stiles, Noel W. (See Glines & Stiles.)					
160, 483	Stiles, Norman C., assignor to Stiles and Parker Press Company, Middletown, Conn. Drop-hammer	Mar. 2, 1875	202	70	7	378
161, 572	Stiles, Norman C., Middletown, Conn. Die for raising articles of sheet-metal	Mar. 30, 1875	1267	407	7	552
160, 037	Stillman, Herbert L., Richmond, R. I. Surgical instrument	Feb. 23, 1875	782	258	7	311
167, 860	Stillman, Orsemus M., Westerly, R. I. Steam-piston	Sept. 21, 1875	459	145	8	486
169, 596	Same. Weft-stop mechanism for looms	Nov. 2, 1875	257	83	8	769
168, 853	Stillman, Wait J., Troy, N. Y. Railway-crossing	Oct. 19, 1875	518	170	8	654
166, 482	Stillson, Daniel C., Boston, Mass. Faucet	Aug. 10, 1875	300	90	8	249
166, 483	Same. Self-closing faucet	Aug. 10, 1875	301	90	8	249
168, 588	Same. Machine for rounding and sealing the ends of wrought-iron tubes	Oct. 11, 1875	273	88	8	610
6, 524	Stilson, Lyman B., Minneapolis, Minn., assignor to self and August Leich. Harvester, (Reissue)	June 29, 1875	1254	403	7	1134
	Stilwell and Bierce Manufacturing Company. (See Stilwell, Edwin R., assignor.)					
	Same. same. (Reissue.)					
165, 381	Stilwell, Charles B., Worcester, Mass. Paper-bag machine	July 6, 1875	222	{ 66 67 68 }	8	39
6, 286	Stilwell, Edwin R., Dayton, Ohio, assignor, by mesne assignments, to Stilwell and Bierce Manufacturing Company. Water-heating device	Feb. 9, 1875	478	160	7	259
158, 997	Stilwell, Edwin R., assignor to Stilwell and Bierce Manufacturing Company, Dayton, Ohio. Case for turbine water-wheels	Jan. 19, 1875	623	206	7	124
159, 050	Stimpson, Edward S., assignor to Dutcher Temple Company, Hopedale, Mass. Temple for looms	Jan. 26, 1875	693	229	7	141
168, 804	Stimpson, Edwin B., New York, N. Y. Machine for embossing the uppers of boots and shoes	Oct. 11, 1875	463	151	8	638
158, 393	Stimson, Enos, assignor to Thomas J. Deavitt, Montpelier, Vt. Grate	Jan. 5, 1875	36	13	7	14
159, 528	Stirk, Jacob, Lancaster City Post-Office, Pa. Running-gear for vehicles	Feb. 9, 1875	291	94	7	232
169, 597	Stith, Ferdinando, Washington, D. C. Draftsman's ink-saucer	Nov. 2, 1875	258	83	8	769
170, 782	Stith, Lewis B., Bennett's Cross-Roads, N. C. Power for cotton-gins	Dec. 7, 1875	117	37	8	966
165, 889	Stitt, John N., Sardis, Miss. Lint-room floor	July 20, 1875	747	228	8	135
162, 503	St. Jean, Basile, Manchester, N. H. Roofing composition	Apr. 27, 1875	876	.....	7	710
	St. John, Henry. (See Crisand, Emil, assignor.)					
169, 310	St. John, Roswell H., Bellefontaine, Ohio. Extension-table for sewing-machines	Oct. 26, 1875	963	312	8	723
171, 445	St. John, Roswell H., Springfield, Ohio. Sewing-machine driving-mechanism	Dec. 21, 1875	766	252	8	1068
161, 073	St. John, William H., New York, N. Y. Process and apparatus for the manufacture of illuminating-gas	Mar. 23, 1875	768	253	7	480
165, 516	St. John, William W., Pisgah, Mo. Detachable seat for chairs	July 13, 1875	382	113	8	68
168, 295	Stobwasser, Gustav, Berlin, Prussia, assignor to Bennett B. Schneider, New York, N. Y. Lamp-burner	Sept. 28, 1875	870	279	8	552
	Stock, Jacob. (See Stock, John and Jacob.)					
166, 315	Stock, John and Jacob, New York, N. Y. Photographic camera	Aug. 3, 1875	119	37	8	216
6, 350	Stockbridge, Charles H., Whateley, Mass., assignor, by mesne assignments, to Miller's Falls Company. Bit-brace	Mar. 23, 1875	1017	331	7	512
170, 411	Stocker, James Z., Charleston, S. C. Bale-band stretcher	Nov. 23, 1875	1074	339	8	899
165, 517	Stockford, Benjamin F., assignor of one-half interest to T. Franklin Thornton, Sturgis, Mich. Stove-pipe drum	July 13, 1875	383	114	8	69
169, 862	Stockton, James K. and Milo L., Brooklyn, N. Y. Sofa-bedstead	Nov. 9, 1875	545	170	8	812
169, 739	Stockton, John P., jr., New York, N. Y. Picture-nail	Nov. 9, 1875	419	133	8	797
	Stockton, Milo L. (See Stockton, James K. and Milo L.)					
168, 062	Stockwell, Emery, Stamford, Conn. Time-lock	Sept. 21, 1875	644	205	8	513
170, 913	Stockwell, Henry B., and Albert R. Weiss, Brooklyn, N. Y. Automatic lighter for gas-burners	Dec. 7, 1875	227	78	8	981
170, 128	Stockwell, John A., Lynn, assignor to Stockwell Shoe Tip Company, Boston, Mass. Machine for making shoe-tips	Nov. 16, 1875	794	252	8	854
	Stockwell Shoe Tip Company. (See Stockwell, John A., assignor.)					
169, 494	Stoddard, Isaac H., Ansonia, Conn. Fastener for the meeting-rails of sashes	Nov. 2, 1875	154	51	8	756
	Stoddard, Marshall W. (See Rouse & Stoddard.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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161, 293	Stoddard, Norton. (See Reimold & Stoddard.)	Mar. 23, 1875	980	320	7	507
167, 951	Stoddard, Richard T., Boston, Mass. Book-supporter	Sept. 21, 1875	528	169	8	498
167, 587	Stoddard, William H. (See Bannister, Perkins & Stoddard.)	Sept. 7, 1875	185	.....	8	432
167, 801	Stoddard, William O., New York, N. Y. Preparation of batter of eggs	Sept. 14, 1875	389	124	8	469
169, 311	Same. Apparatus for desiccating egg-batter	Oct. 26, 1875	964	312	8	723
166, 905	Stoeppelwerth, Edward. (See Feldmeier & Stoeppelwerth.)	Aug. 17, 1875	698	216	8	315
164, 779	Stohler, Henry K. and Thomas F., Mount Joy, Pa. Eave-trough hanger	June 22, 1875	891	290	7	1079
171, 187	Stohler, Thomas F. (See Stohler, Henry K. and Thomas F.)	Dec. 14, 1875	502	166	8	1024
170, 027	Stokes, Charles A. (See Peckham, John A., assignor.)	Nov. 16, 1875	696	219	8	841
161, 294	Stokes John C., assignor to self and Joseph W. Cavender, Villanow, Ga. Baling-press	Mar. 23, 1875	981	321	7	507
171, 188	Stokoe, John W., Manistee, Mich. Set-work for saw-mills	Dec. 14, 1875	503	166	8	1025
162, 428	Stoller, Abraham, Philadelphia, Pa. Combined reel and rake for harvesters	Apr. 20, 1875	782	254	7	690
171, 488	Stoll, Lyman A., Chicago, Ill. Dust-brush	Dec. 28, 1875	824	271	8	1084
166, 427	Stombs, Thomas A., San Francisco, Cal. Automatic rotary carbureter	Aug. 3, 1875	228	69	8	231
167, 802	Stone, Andre, Ticonderoga, N. Y. Boot and shoe pegging stand	Sept. 14, 1875	390	125	8	469
167, 135	Stone, Bertrand W. (See Kingston, Charles H., assignor.)	Aug. 24, 1875	931	290	8	356
158, 607	Stone, Frank D., and Worthington Murray, Cleveland, Ohio. Apparatus for preserving eggs	Jan. 12, 1875	242	82	7	58
171, 248	Stone, Frank P., Chicago, Ill. Device for coupling and uncoupling thills	Dec. 21, 1875	592	194	8	1044
160, 124	Stone, Henry J., New Haven, Conn. Machine for cutting printer's leads	Feb. 23, 1875	854	282	7	322
164, 946	Stone, John R., et al. (See Hardy, Dexter D., assignor.)	June 29, 1875	1070	344	7	1108
166, 316	Stone, Joseph H., et al. (See Davis & Stone, assignors.)	Aug. 3, 1875	120	37	8	216
162, 323	Stone, Joseph M. (See Davis & Stone.)	Apr. 20, 1875	674	220	7	677
162, 504	Stone, Joseph M., North Andover, Mass. Spindle-bearings and their lubrication	Apr. 27, 1875	876	280	7	710
170, 692	Same. Hydraulic hose	Dec. 7, 1875	36	11	8	955
165, 271	Same. Building mechanism for spinning-frames	July 6, 1875	117	35	8	25
169, 495	Stone, Lester D. (See Barker, George E., assignor.)	Nov. 2, 1875	154	51	8	756
162, 323	Stone, Roy, Vandalia, N. Y. Car for elevated railways	Apr. 20, 1875	674	220	7	677
162, 504	Same. Elevated railway	Apr. 27, 1875	876	280	7	710
170, 692	Same. Car for one-rail railways	Dec. 7, 1875	36	11	8	955
165, 271	Stone, Samuel, North Manchester, Conn. Pipe-tongs	July 6, 1875	117	35	8	25
169, 495	Stone, Samuel, assignor to Steel Centered Calk and Set Screw Company, North Manchester, Conn. Horseshoe	Nov. 2, 1875	154	51	8	756
160, 848	Stone, William F. (See Hunter, George W., assignor.)	Mar. 16, 1875	564	183	7	443
170, 783	Stonebreaker, George J. (See Williams, John, assignor.)	Dec. 7, 1875	118	38	8	906
162, 710	Stoops, Nesbitt D. (See Cushman, Cyrus, assignor.)	Apr. 27, 1875	1063	339	7	734
6, 631	Same. (See Hodgkins, Christopher, assignor.) (Reissue.)	Sept. 7, 1875	199	62	8	434
8, 227	Storey, Albert G., and Thomas J. Lewis, Brooklyn, N. Y. Lamp	Mar. 23, 1875	.....	.....	7	463
8, 210	Storey, George H., La Porte, Ind. Car-ventilation	Mar. 16, 1875	.....	.....	7	427
163, 276	Storke, Elliott G., Auburn N. Y. Carpenter's plane	May 11, 1875	519	168	7	822
168, 678	Storle, Ole O., assignor to self and John O. Overby, Milwaukee, Wis. Horse-power. (Re-issue)	Oct. 11, 1875	352	115	8	623
168, 426	Storm, Francis, Philadelphia, Pa. Perfumery-bottle	Oct. 5, 1875	94	33	8	578
169, 126	Storm, Gustavus, Philadelphia, Pa. Perfumery-bottle	Oct. 26, 1875	797	258	8	760
167, 627	Same. Detachable plate for glass-molds	Sept. 14, 1875	232	72	8	445
159, 466	Storm, William M., assignor to self and William L. Williams, New York, N. Y. Air-injector for aero-steam engine	Feb. 2, 1875	212	69	7	214
162, 711	Stormont, William. (See Gore, Myron, assignor.)	Apr. 27, 1875	1065	339	7	734
159, 229	Storms, Edward. (See Whitney, William F., assignor.)	Jan. 26, 1875	857	279	7	164
166, 428	Story, James, Washington, D. C. Apparatus for warming and ventilating railway-cars	Aug. 3, 1875	230	70	8	231
170, 203	Same. Apparatus for lighting railway-cars	Nov. 23, 1875	889	277	8	874
167, 952	Story, Joseph M., Cincinnati, Ohio. Sleigh	Sept. 21, 1875	529	169	8	498
163, 116	Stott, Abraham, and Davis Eavenson, Philadelphia, Pa. Washing-machine	May 11, 1875	370	120	7	803
161, 911	Stott, William B., Scranton, Pa. Rotary engine	Apr. 13, 1875	294	99	7	622
162, 113	Stotts, David C., et al. (See Harwood, George D., assignor.)	Apr. 13, 1875	469	155	7	644
164, 247	Stouffer, Hiram C., Canfield, Ohio, assignor of one-half interest to John Childs, Smith's Ferry, Pa. Pipe-wrench	June 29, 1875	1071	345	7	1108
165, 272	Same. Windmill	July 6, 1875	117	35	8	25
162, 429	Stover, William, Auburn, N. Y. Corn-sheller	Apr. 20, 1875	783	254	7	690
160, 125	Stow, Delaraine F., Horseheads, N. Y. Bucket for chain-pumps	Feb. 23, 1875	855	283	7	322
165, 695	Stow, Henry M., San Francisco, Cal. Wood pavement	July 20, 1875	560	171	8	110
168, 805	Same. Brick pavement	Oct. 11, 1875	464	151	8	638
164, 780	Stow, Orson W., Plantsville, Conn. Latch for doors	June 22, 1875	892	290	7	1079
160, 728	Stowe, Titus. (See Lord, Orrin E., assignor.)	Mar. 9, 1875	434	144	7	419
161, 828	Stowell, Barna T. (See Green, Stephen, assignor.)	Apr. 6, 1875	220	74	7	600
164, 494	Stowell, Nellie. (See Dunbar, Stowell & Dunbar.)	June 15, 1875	630	203	7	1034
160, 625	St. Pierre, Xavier. (See La Blanc & St. Pierre.)	Mar. 9, 1875	341	115	7	407
160, 729	Strader, Samuel M., Madison, Ind. Thill-coupling	Mar. 9, 1875	435	144	7	419
161, 828	Straight, John A. (See Hopkins, George M., assignor.)	Apr. 6, 1875	220	74	7	600
164, 494	Strain, Edwin, trustee. (See Hosmer, Oren S., assignor.)	June 15, 1875	630	203	7	1034
160, 625	Strattan, Allen M., Ladoga, Ind. Harrow and roller	Mar. 9, 1875	341	115	7	407
160, 729	Strattner, Frederick, Wilmington, Del. Fire-brick for furnaces	Mar. 9, 1875	341	115	7	407
160, 729	Stratton, Charles H., Monroeton, Pa. Side-hill plow	Mar. 9, 1875	341	115	7	407
160, 729	Stratton, Daniel, assignor of one-half interest to Joseph Graham, Cassopolis, Mich. Tire-shrinker	Mar. 9, 1875	435	144	7	419
160, 729	Stratton, Henry C. (See Craig, Pascal L., assignor.)	Mar. 9, 1875	435	144	7	419

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158, 540	Stratton, Jackson B., Waterloo, N. Y. Drying-rack	Jan. 5, 1875	164	56	7	32
166, 945	Stratton, John F., New York, N. Y. Boiler-feed regulator	Aug. 24, 1875	749	232	8	331
161, 987	Stratton, Oscar G., and Baxter B. Noyes, Greenfield, Mass. Child's carriage	Apr. 13, 1875	358	120	7	630
161, 988	Stratton, Rufus, and George Olmsted, Hazardville, Conn. Horse-yoke	Apr. 13, 1875	359	120	7	630
	Straub Mill Company. (See Cathcart, Rodney S., assignor.)					
	Strauss & Co., Levi. (See Davis, Jacob W., assignor.)					
	(Reissue.)					
160, 126	Strauss, Gabriel, New York, N. Y. Pocket-book	Feb. 23, 1875	856	283	7	322
165, 273	Strausz, Emil, Chicago, Ill. Ear-muff	July 6, 1875	118	36	8	25
170, 028	Straw, Frank L., Boston, and Benjamin F. Sparrow, Cambridge; said Sparrow assignor to Herbert F. Sparrow, Boston, Mass. Boot and shoe tip	Nov. 16, 1875	697	220	8	841
	Straw, Henry D., administrator. (See Jones, Richard.)					
	Straw Sewing Machine Company. (See Bosworth, Charles F., assignor.)					
	(Reissue.)					
163, 541	Strawn, Thomas C., Perry Township, assignor to self and N. Q. Speer, Belle Vernon, Pa. Self-loading cart	May 18, 1875	782	248	7	872
167, 803	Stream, Alexander, and David Miller, Harrodsburg, Ind. Rotary engine	Sept. 14, 1875	391	125	8	469
166, 946	Street, Chauncey W. F., Lanark, Ill. Cheese-vat	Aug. 24, 1875	750	232	8	331
158, 541	Street, Frank, Council Bluffs, Iowa. Car-coupling	Jan. 5, 1875	165	56	7	32
	Streeter, Levi C. (See Nickerson & Streeter.)					
	Same					
	(Reissue.)					
162, 114	Streit, Anton, assignor to J. A. Fay & Co., Cincinnati, Ohio. Matching-cutters	Apr. 13, 1875	470	155	7	644
169, 204	Same	Oct. 26, 1875	859	280	8	709
158, 869	Streit, Charles, Cincinnati, Ohio. Rocking-chair	Jan. 19, 1875	496	167	7	118
	Streit, James, et al. (See James & Streit, assignors.)					
163, 892	Stretcher, Howard, Indianapolis, Ind. Key-fastener	May 25, 1875	1037	328	7	914
163, 702	Streuby, Ferdinand, New Orleans, La. Cotton-seed huller	May 25, 1875	934	297	7	900
6, 736	Strickler, Walter C., Chicago, Ill., assignor to John C. Evenden and F. Cortez Wilson. Oil-tank	Nov. 9, 1875	574	178	8	816
	(Reissue.)					
162, 204	Stickler, Wilson, Lebanon, Pa. Insulated telegraph-wire	Apr. 20, 1875	568	186	7	664
163, 420	Stricklett, John G., Palo, Iowa. Car-coupling	May 18, 1875	666	213	7	857
	Stringer, William H., et al. (See Barr, Robert S., assignor.)					
159, 467	Strobridge, Turner, New Brighton, Pa. Coffee-mill	Feb. 2, 1875	213	69	7	214
162, 505	Stroh, Abraham, Mauch Chunk, Pa. Machine for rounding the corners of slate-frames	Apr. 27, 1875	877	280	7	711
171, 189	Same	Dec. 14, 1875	505	167	8	1025
	Ore-jigger					
	Stroh, John M. A. (See Wheatstone & Stroh.)					
170, 129	Strohm, Samuel D., assignor of one-half interest to William H. Wright, Philadelphia, Pa. Dental plugger	Nov. 16, 1875	795	252	8	854
162, 205	Strombeck, Charles W., Syracuse, Ind. Harrow	Apr. 20, 1875	569	187	7	664
6, 497	Strong, Clark, Winsted, Conn., assignor to Strong Manufacturing Company. Casket-handle	June 22, 1875	1013	327	7	1093
	(Reissue.)					
163, 277	Strong, George H., Chicago, Ill. Pinchers	May 11, 1875	520	169	7	822
162, 966	Strong, George S., assignor of one-half interest to Benjamin A. F. Greer, Mount Vernon, Ohio. Earth-auger	May 4, 1875	217	70	7	775
	Strong Manufacturing Company. (See Strong, Clark, assignor.)					
	(Reissue.)					
162, 430	Strong, Robert H., assignor of one-half interest to Clinton S. Halsey, Galesburg, Ill. Clock	Apr. 20, 1875	784	255	7	690
164, 230	Strong, Samuel, assignor to self and Ebon C. Ingersoll, Washington, D. C. Pavement	June 8, 1875	370	126	7	992
166, 822	Strong, Samuel, assignor of one-half interest to Ebon B. Ingersoll, Washington, D. C. Brick pavement	Aug. 17, 1875	616	191	8	304
165, 629	Strong, Samuel B., Albion, N. Y. Pump	July 13, 1875	487	148	8	84
	Strong, William A., jr., administrator. (See Moore, William A.)					
	Strong, William H. (See Burnham & Strong.)					
	Stroop, L. J. (See Tucker, Argyle W., assignor.)					
163, 950	Stroud, Ezra, Riceford, Minn. Combined hame and horse collar	June 1, 1875	93	32	7	944
169, 055	Stroup, Wesley H., Philadelphia, Pa. Flask	Oct. 19, 1875	707	233	8	680
171, 327	Struhar, George G., Philadelphia, Pa. Neck-tie	Dec. 21, 1875	659	217	8	1053
169, 127	Strunk, William, Montgomery, Mich. Blind-slat operator	Oct. 26, 1875	798	258	8	700
6, 624	Strunz, Stephen, Pittsburgh, Pa. Transparent advertising-soap	Aug. 31, 1875	1174	369	8	398
164, 606	Same	June 15, 1875	723	236	7	1048
165, 627	Strunz, Stephen, Pittsburgh, Pa., assignor of one-half interest to Christopher Lipps, Baltimore, Md. Soap	July 13, 1875	486	148	8	84
165, 628	Strunz, Stephen, Pittsburgh, Pa. Transparent advertising-soap	July 13, 1875	487	148	8	84
	Stuart, David W., et al. (See Martin, Thomas J., assignor.)					
	Same					
	(See Pounds, William H., assignor.)					
163, 951	Stuart, Levi B., Seymour, assignor of one-half interest to Frederic Durand, Derby, Conn. Heating-stove	June 1, 1875	94	32	7	944
164, 337	Stuart, Timothy E., Boston, and John A. Emery, Cambridge, Mass. Rotary engine	June 8, 1875	470	155	7	1005
	Stuber, Jacob. (See Stuber, Johannes and Jacob.)					
159, 716	Stuber, Johannes and Jacob, Astoria, N. Y. Brewing beer	Feb. 9, 1875	447	156	7	255
	Studer, Henry. (See Wyss & Studer.)					
166, 156	Study, Leonard, Plum Hollow, Iowa. Harrow	July 27, 1875	1016	313	8	185
	Stueve, Henry. (See Brockman & Stueve.)					
164, 055	Stuhr, Herman. (See Bohn, Stühr & Joecken.)					
159, 855	Stultz, Sidney S., Cedar Bluffs, Nebr. Harvester	June 1, 1875	189	68	7	956
	Stumm, Thomas, Ada, Ohio. Washing-machine	Feb. 16, 1875	593	196	7	279
	Sture, Bernard. (See Chaffee, Reuben S., assignor.)					
	Sturges & Co., Frank. (See Leading, George W., assignor.)					
	Same					
	(See Mather, Emmett, assignor.)					
	(See Sickles, George B., assignor.)					
164, 495	Sturges, Charles H., Saratoga Springs, N. Y. Water-wheel	June 15, 1875	630	204	7	1034
	Sturges, George, et al. (See Clark, Jacob H., assignor.)					
	Sturtevant, Benjamin F. (See Bickford & Sturtevant.)					
	Same					
	(See Rawland, Charles and Joseph G., assignors.)					
	(Reissue.)					
	Same					
	(See Shaw, Francis M., assignor.)					
6, 300	Sturtevant, Benjamin F., Boston, Mass. Blank for shoe-pegs	Feb. 23, 1875	743	246	7	298
158, 998	Same	Jan. 19, 1875	624	207	7	124
158, 999	Same	Jan. 19, 1875	625	207	7	125
159, 287	Sturtevant, Benjamin F., Boston, and Francis M. Shaw, Brockton, Mass., assignors to Benjamin F. Sturtevant. Machine for forming points on pegs	Feb. 2, 1875	40	15	7	190
159, 775	Sturtevant, Benjamin F., Boston, Mass. Pegging-machine	Feb. 16, 1875	521	173	7	269
159, 776	Same	Feb. 16, 1875	522	174	7	269
159, 777	Same	Feb. 16, 1875	523	174	7	270
159, 778	Same	Feb. 16, 1875	524	175	7	270
	Pegs or ribbon-peg wood					

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
159, 856	Sturtevant, Benjamin F., Boston, Mass. Pegging-machine.	Feb. 16, 1875	594	197	7	279
159, 857	Same. same	Feb. 16, 1875	595	197	7	279
159, 858	Same. same	Feb. 16, 1875	597	198	7	279
159, 859	Same. Machine for compressing sole-fastenings.	Feb. 16, 1875	598	198	7	279
159, 860	Same. Ribbon peg-wood	Feb. 16, 1875	599	199	7	279
159, 977	Same. Peg or sole-fastening	Feb. 16, 1875	706	235	7	294
162, 967	Same. Fan-blower	May 4, 1875	219	70	7	776
162, 968	Same. same	May 4, 1875	219	70	7	776
162, 969	Same. Apparatus for preparing sole-fastening materials.	May 4, 1875	220	70, 71	7	776
162, 970	Same. Sole-fastening	May 4, 1875	221	71	7	776
162, 971	Same. Process for manufacture of sole-fastenings	May 4, 1875	222	71	7	776
162, 972	Same. Rod for sole-fastenings	May 4, 1875	223	72	7	776
166, 429	Same. Machine for pointing ribbon peg-wood	Aug. 3, 1875	231	70, 71	8	232
166, 430	Same. Machine for severing sole-fastening webs	Aug. 3, 1875	233	71	8	232
162, 431	Sturtevant, Thomas L., Framingham, Mass. Cartridge-loading implement	Apr. 20, 1875	785	255	7	690
161, 452	Stutz, John C. H., San Francisco, Cal. Rotary reversing and cut-off valve.	Mar. 30, 1875	1145	{ 369 } { 370 }	{ 7 }	536
165, 518	Stutzman, John J. (See George & Stutzman.)					
159, 529	Sues, Philipp, Providence, R. I. Fastening for buttons	July 13, 1875	383	114	8	69
159, 529	Sugden, John, and James P. Gaffney, Lawrence, Mass. Horse-check	Feb. 9, 1875	292	94	7	232
168, 679	Sullenberger, William H. (See Bird & Sullenberger.)					
171, 446	Sullivan, Charles P., jr., Lime Creek, S. C. Variable measure	Oct. 11, 1875	354	115	8	623
171, 190	Sullivan, Daniel M., Montgomery City, Mo. Folding coop	Dec. 21, 1875	767	252	8	1068
170, 412	Sullivan, Edward O., San Francisco, Cal. Harness for fire-engines, &c.	Dec. 14, 1875	507	167	8	1025
162, 973	Sullivan, Hamlet P., Zenia, Ill. Corn and seed planter	Nov. 23, 1875	1075	339	8	900
166, 157	Sullivan, John, Independence, Mo. Cloth-measuring machine	May 4, 1875	223	72	7	776
160, 242	Sullivan, John J. (See Holland, Charles L., assignor.)					
166, 823	Sullivan, Michael, Royalton, Wis. Car-coupling	July 27, 1875	1017	313	8	185
166, 158	Sullivan, Michael J., New York, N. Y. Beer-faucet	Feb. 23, 1875	956	314	7	336
158, 870	Sullivan, Nathan, Humboldt, Tenn. Medical composition	Aug. 17, 1875	617		8	304
165, 376	Sullivan, Swan, Savannah, Ga. Mode of applying sample-patches to cotton-bales.	July 27, 1875	1017	314	8	185
167, 628	Summers, Jacob, and George W. Fay, Muncie, Ind. Spark-arrester.	Jan. 19, 1875	497	167	7	108
162, 506	Summers, John P., Tiffin, Ohio. Earth-auger	July 6, 1875	215	65	8	38
163, 542	Same. same	Sept. 14, 1875	233	72	8	446
170, 914	Summers, Thomas L., Boston, Mass. Hose-coupling.	Apr. 27, 1875	878	281	7	711
161, 176	Sumner & Whitney Manufacturing Company. (See Whitney, John H., assignor.)					
163, 542	Sumpf, Friedrich, Saint Louis, Mo. Price-indicator.	May 18, 1875	784	248	7	873
161, 176	Sunderland, Leslie E., Williamsburgh, Va. Barrel	Dec. 7, 1875	228	78	8	981
163, 278	Sunderland, Lucius A., Madison, Ohio. Heater for cheese-vats	Mar. 23, 1875	866	283	7	492
164, 883	Sunderman, John H., assignor of one-half interest to Herman Moecker, Quincy, Ill. Combined rein-holder and whip-socket.	May 11, 1875	521	169	7	822
158, 871	Supple, George, Williamsport, Pa. Bedstead-fastening	June 22, 1875	994	321	7	1091
168, 539	Supple, Bernard F., et al. (See Supple, Francis, assignor.)					
170, 029	Supple, Francis, assignor to James F. and Bernard F. Supple, Boston, Mass. Horseshoe-machine	Jan. 19, 1875	497	167	7	108
165, 274	Supple, James F., et al. (See Supple, Francis, assignor.)					
161, 453	Surmon, Henry J., Belvedere, England. Gas-apparatus.	Oct. 5, 1875	202	66, 67	8	593
162, 115	Sustins, William, Waupaca, Wis. Weath r-strip	Nov. 16, 1875	698	220	8	841
163, 543	Sutcliffe, John. (See Cooper & Sutcliffe.)					
159, 554	Suter, Frederick L., Brooklyn, N. Y. Smoking-pipe cover	July 6, 1875	118	36	8	25
166, 317	Sutherland, George. (See Walker, Alexander, assignor.)					
161, 453	Sutherland, James, deceased, by Lavancia M. Sutherland, Catskill, and Thomas Groves, Brooklyn, N. Y., administrators. Twister for making thread, twine, &c.	Mar. 30, 1875	1146	370	7	537
162, 115	Sutherland, James A., Elmwood, Ill. Gang-plow	Apr. 13, 1875	470	156	7	644
163, 543	Sutherland, Lavancia M., administratrix. (See Sutherland, James.)					
159, 554	Sutphen, Benjamin W., Fillmore, Minn. Barrel-hoop	May 18, 1875	785	249	7	873
166, 317	Sutphen, Carlyle E., assignor to Johnston & Sutphen, Newark, N. J. Shirt	Feb. 9, 1875	310	101	7	231
6, 751	Sutphen, Othello, Albany, N. Y. Egg-box	Aug. 3, 1875	121	38	8	216
159, 468	Sutro, Hugo, New York, N. Y. Card for wrapping-thread. (Reissue)	Nov. 16, 1875	832	261	8	858
163, 896	Sutter, Jacob, Pittsburgh, Pa. Device for welding together the fag ends of bars	Feb. 2, 1875	215	69	7	214
162, 712	Sutton, Delay F., Philadelphia, Pa. Bit-stock	June 1, 1875	49	17	7	937
167, 708	Sutton, John, Islip, N. Y. Ash-sifter	Apr. 27, 1875	1067	339	7	734
166, 233	Sutton, John, Deep River, Iowa. Clothes-drier	Sept. 14, 1875	302	96	8	456
168, 680	Sutton, John W., New York, N. Y. Pulley-cover	Aug. 3, 1875	44	14	8	205
158, 814	Sutton, Lyman W., jr., Jersey City, N. J. Dental filling	Oct. 11, 1875	354		8	623
159, 368	Sutton, Washington, Macon County, Ill. Calf-weaner	Jan. 19, 1875	448	149	7	102
160, 477	Suydam, Peter and William G., New Brunswick, N. J. Miter-box	Feb. 2, 1875	114	39	7	200
161, 715	Suydam, William G. (See Suydam, Peter and William G.)					
167, 588	Svoboda, Ferdinand, and Franz Luxa, Cleveland, Ohio. Car-brake	Mar. 2, 1875	197	68	7	377
169, 929	Svoboda, Ferdinand, and Franz Luxa, Cleveland, Ohio. Cigar-press	Apr. 6, 1875	105	38	7	584
159, 469	Swafford, Levi W., assignor to self, James S. Horan, and Charles F. Taffe, Vicksburgh, Miss. Scaffold	Sept. 7, 1875	186	57	8	432
167, 953	Swain, Alva H., Winchester, Ind. Ironing-table	Nov. 16, 1875	615	191	8	830
164, 884	Swallow, Alexander, Beloit, Wis. Machine for burnishing boot and shoe heels.	Feb. 2, 1875	216	70	7	214
158, 446	Swallow, Alexander, assignor of one-half interest to Cyrus Libby, Beloit, Wis. Burnisher-holder	Sept. 21, 1875	530	169	8	498
160, 626	Swallow, William B., assignor of one-third interest to Andrew T. Connet, Flemington, N. J. Fastener for the meeting-rails of sashes	June 22, 1875	995	321	7	1091
160, 849	Swan, Amos L., Cherry Valley, N. Y. Door-bell	Jan. 5, 1875	81	28	7	21
164, 699	Swan, Charles S., Tamaroa, Ill. Press	Mar. 9, 1875	342	116	7	407
170, 413	Swan, Frederick, New York, N. Y. Needle-book	Mar. 16, 1875	547	183	7	443
168, 427	Swan, George W., San Francisco, Cal. Veneer-cutting machine	June 22, 1875	823	268	7	1069
161, 644	Swan, James, Seymour, Conn. Auger-handle	Nov. 23, 1875	1076	339	8	900
166, 651	Swaney, John S. (See Chritton, James M., assignor.)					
7, 985	Swaney, John S., Marengo, Iowa. Seedlings-puller	Oct. 5, 1875	95	33	8	578
8, 252	Swank, Hiram, Johnstown, Pa. Stopper for ladles	Apr. 6, 1875	48	18	7	576
8, 637	Swann, Thomas, Philadelphia, Pa. Candlestick	Aug. 10, 1875	443	137	8	270
8, 638	Swapp, Charles W., assignor to Lowell Manufacturing Company, Lowell, Mass. Carpet. (Design)	Jan. 5, 1875			7	5
8, 639	Same. same	Mar. 30, 1875			7	516
8, 640	Same. same	Sept. 7, 1875			8	403
8, 641	Same. same	Sept. 7, 1875			8	403
8, 642	Same. same	Sept. 7, 1875			8	403
8, 643	Same. same	Sept. 7, 1875			8	403
8, 644	Same. same	Sept. 7, 1875			8	403
8, 645	Same. same	Sept. 7, 1875			8	403
8, 646	Same. same	Sept. 7, 1875			8	403
8, 647	Same. same	Sept. 7, 1875			8	403
8, 648	Same. same	Sept. 7, 1875			8	403
8, 649	Same. same	Sept. 7, 1875			8	403
8, 650	Same. same	Sept. 7, 1875			8	403
8, 651	Same. same	Sept. 7, 1875			8	403
8, 652	Same. same	Sept. 7, 1875			8	403
8, 653	Same. same	Sept. 7, 1875			8	403
8, 654	Same. same	Sept. 7, 1875			8	403
8, 655	Same. same	Sept. 7, 1875			8	403
8, 656	Same. same	Sept. 7, 1875			8	403
8, 657	Same. same	Sept. 7, 1875			8	403
8, 658	Same. same	Sept. 7, 1875			8	403
8, 659	Same. same	Sept. 7, 1875			8	403
8, 660	Same. same	Sept. 7, 1875			8	403
8, 661	Same. same	Sept. 7, 1875			8	403
8, 662	Same. same	Sept. 7, 1875			8	403
8, 663	Same. same	Sept. 7, 1875			8	403
8, 664	Same. same	Sept. 7, 1875			8	403
8, 665	Same. same	Sept. 7, 1875			8	403
8, 666	Same. same	Sept. 7, 1875			8	403
8, 667	Same. same	Sept. 7, 1875			8	403
8, 668	Same. same	Sept. 7, 1875			8	403
8, 669	Same. same	Sept. 7, 1875			8	403
8, 670	Same. same	Sept. 7, 1875			8	403
8, 671	Same. same	Sept. 7, 1875			8	403
8, 672	Same. same	Sept. 7, 1875			8	403
8, 673	Same. same	Sept. 7, 1875			8	403
8, 674	Same. same	Sept. 7, 1875			8	403
8, 675	Same. same	Sept. 7, 1875			8	403
8, 676	Same. same	Sept. 7, 1875			8	403
8, 677	Same. same	Sept. 7, 1875			8	403
8, 678	Same. same	Sept. 7, 1875			8	403
8, 679	Same. same	Sept. 7, 1875			8	403
8, 680	Same. same	Sept. 7, 1875			8	403
8, 681	Same. same	Sept. 7, 1875			8	403
8, 682	Same. same	Sept. 7, 1875			8	403
8, 683	Same. same	Sept. 7, 1875			8	403
8, 684	Same. same	Sept. 7, 1875			8	403
8, 685	Same. same	Sept. 7, 1875			8	403
8, 686	Same. same	Sept. 7, 1875			8	403
8, 687	Same. same	Sept. 7, 1875			8	403
8, 688	Same. same	Sept. 7, 1875			8	403
8, 689	Same. same	Sept. 7, 1875			8	403
8, 690	Same. same	Sept. 7, 1875			8	403
8, 691	Same. same	Sept. 7, 1875			8	403
8, 692	Same. same	Sept. 7, 1875			8	403
8, 693	Same. same	Sept. 7, 1875			8	403
8, 694	Same. same	Sept. 7, 1875			8	403
8, 695	Same. same	Sept. 7, 1875			8	403
8, 696	Same. same	Sept. 7, 1875			8	403
8, 697	Same. same	Sept. 7, 1875			8	403
8, 698	Same. same	Sept. 7, 1875			8	403
8, 699	Same. same	Sept. 7, 1875			8	403
8, 700	Same. same	Sept. 7, 1875			8	403

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
161, 989	Swarthout, William, Quincy, Ill. Car-truck	Apr. 13, 1875	359	121	7	630
165, 382	Swarthout, William A., assignor to self and Roswell W. Gates, Aurora, Ill. Agricultural boiler	July 6, 1875	226	68	8	39
168, 806	Swarthout, William R., Penn Yan, N. Y. Tire-tightener	Oct. 11, 1875	465	152	8	638
160, 553	Swartley, John S. (See Levin, George W., assignor.)					
160, 553	Swartout, John H., and Albert L. Whedon, Geddes, N. Y. Grate	Mar. 9, 1875	279	95	7	398
164, 111	Swartout, Thomas G., executor. (See Lovatt, John) (Reissue.)					
164, 111	Swartz, George A., Orangeville, Ill. Corn-harvester	June 8, 1875	263	90	7	977
	Swartz, Gilbert R. (See Swartz, Samuel, assignor.)					
	Swartz, John H. (See Rhodes & Swartz.)					
170, 915	Swartz, Samuel, assignor to self and Gilbert R. Swartz, Buffalo, N. Y. Press-plate for drying and bending wood	Dec. 7, 1875	229	79	8	981
165, 519	Swasey, Ambrose, Hartford, Conn. Protractor	July 13, 1875	384	114	8	69
168, 354	Swasey, Ambrose, assignor of part interest to Worcester R. Warner, Hartford, Conn. Water-meter	Oct. 5, 1875	31	12	8	569
171, 062	Swasey, Benjamin, San Francisco, Cal. Process of printing photographs	Dec. 14, 1875	285	127	8	1009
164, 607	Swasey, James H., Waltham, Mass. Recumbent chair	June 15, 1875	724	236	7	1048
160, 797	Swasey, Samuel T., Salem, Mass. Glue-drier	Mar. 16, 1875	525	169	7	438
161, 990	Same. Drying apparatus	Apr. 13, 1875	360	121	7	630
	Swehla, Mathias. (See Novinska, Joseph, assignor.)					
159, 051	Sweeney, Peter, New York, N. Y., and Albert Beach, jr., assignors to Albert Beach, New-ark, N. J. Manufacture of vegetable felt	Jan. 26, 1875	695		7	141
169, 056	Sweet, Benjamin F., Fond du Lac, Wis. Sleigh	Oct. 19, 1875	708	233	8	680
	Sweet, Clayton E. (See Norris & Sweet.)					
	Sweet, Clinton W. (See Vergnes, Charles M., assignor.)					
169, 057	Sweet, Daniel F., assignor of one-half interest to Homer Moul and J. Lee Reed, Hastings, Mich. Electric clock	Oct. 19, 1875	708	234	8	680
	Sweet, Eli M. (See Oothoudt, Heaberlin & Sweet.)					
160, 554	Sweet, John, assignor of one-half interest to John A. Tillinghast, Providence, R. I. Sash-holder	Mar. 9, 1875	280	95	7	398
171, 249	Sweet, John, Providence, R. I. Sash-lift	Dec. 21, 1875	593	194	8	1044
166, 318	Sweet, John E., Ithaca, N. Y. Screw-trap	Aug. 3, 1875	121	38	8	216
	Sweet, John M. (See Lapp & Sweet.)					
163, 823	Sweet, Lebbeus, Wellsville, N. Y. Portable steam-engine	May 25, 1875	1038	329	7	914
	Sweetland, Alvah. (See Smith, Annie R., assignor.)					
160, 850	Sweetland, Jerome B., Pontiac, Mich. Elevator	Mar. 16, 1875	565	{ 183 184 }	{ 7 7 }	444
158, 542	Sweetland, Nathan, assignor to American Butt Company, Providence, R. I. Vegetable-slicer	Jan. 5, 1875	165	57	7	32
	Swett, Daniel, et al. (See Bonney, William A., assignor.)					
164, 885	Swett, Nathaniel A., Westbrook, Me. Heel-shave	June 22, 1875	996	321	7	1091
	Swett, Quimby & Perry, et al. (See Brown, Albert, assignor) (Reissue.)					
	Swett, Quimby & Perry. (See Quimby, Julius F., assignor) (Design.)					
	Swett, Quimby & Perry. (See Vedder & Ritchie, assignors) (Design.)					
159, 978	Swick, George W., et al. (See Long, Charles B., assignor.)					
	Swift, Alexander, Cincinnati, Ohio, and James E. York, Newport, Ky. Roll for rolling angle-iron	Feb. 16, 1875	708	255	7	294
	Swift, Charles, et al. (See Warren & Packard, assignors.)					
	Swift, Jonathan, et al. (See Warren & Packard, assignors.)					
169, 496	Swift, Joseph H. (See Bopp, Christ, assignor.)					
165, 039	Swift, Oliver, Madison, Wis. Sad-iron	Nov. 2, 1875	155	51	8	756
	Swift, Rufus B., and Thomas J. List, Cleveland, Ohio. Flask for casting propeller-wheels	June 29, 1875	1144	{ 369 370 }	{ 7 7 }	1118
	Swift, William H., et al. (See Burrige, Thomas H., assignor.)					
165, 630	Swindell, William, Allegheny, Pa. Metallurgic furnace	July 13, 1875	488	148	8	84
171, 063	Swingle, Alfred, San Francisco, Cal. Clutch	Dec. 14, 1875	286	128	8	1009
159, 861	Swingle, George R., Frederickstown, Ohio. Broom	Feb. 16, 1875	600	199	7	280
167, 362	Swisher, David N., and Eli P. Campbell, Troy, Ohio. Bolting-chest	Aug. 31, 1875	1152	362	8	394
	Swords, George H. (See Siver & Swords.)					
166, 484	Sykes, Charles J., Chicago, Ill. Lantern	Aug. 10, 1875	302	91	8	249
166, 729	Same. Inhaler	Aug. 17, 1875	536	164	8	292
167, 709	Sykes, Henry, New York, assignor to self and William Campbell, Brooklyn, N. Y. Wooden frame for hinged awnings	Sept. 14, 1875	302	96	8	456
	Sylvester, Charles F. (See Sanford, Joseph H., assignor.)					
159, 470	Sylvester, Cyrus O., Attica, Ind. Pump	Feb. 2, 1875	217	70	7	214
164, 781	Symmes, Joseph R., Hamilton, Ohio. Seed-drill	June 22, 1875	893	291	7	1079
167, 280	Same. Machine for gathering grass-seed	Aug. 31, 1875	1079	337	8	384
162, 116	Synge, Millington H., London, England. Earth-closet	Apr. 13, 1875	472	156	7	644
162, 117	Synnot, Thomas J., Wenonah, N. J. Bottle	Apr. 13, 1875	473	156	7	644
169, 863	Syversen, Andreas, Chicago, Ill. Machine for making pipe-elbows	Nov. 9, 1875	546	170	8	812
166, 652	Szabo, Alexander A., Houston, Tex. Bale-tie	Aug. 10, 1875	444	137	8	270
169, 497	Taber, Freeman A., assignor to Philip S. Page, Boston, Mass. Lamp	Nov. 2, 1875	156	51	8	756
171, 638	Taber, Freeman A., Boston, Mass. Lamp-burner	Dec. 28, 1875	983	318	8	1105
158, 872	Taber, Isaiah W., and Thomas H. Boyd, San Francisco, Cal. Photographic plate holder	Jan. 12, 1875	498	168	7	108
170, 204	Same. Photographic background	Nov. 23, 1875	889	278	8	874
169, 740	Taber, Orrin, Santa Clara, Cal. Horse hay-fork	Nov. 9, 1875	419	133	8	797
	Taber, Walter. (See Whiting, James M., assignor.)					
	Taffe, Charles F., et al. (See Swafford, Levi W., assignor.)					
	Taft, George C. (See Prouty, Coes & Taft.)					
164, 948	Taft, Gustavus E., Northbridge, Mass. Beater for cotton-pickers	June 29, 1875	1071	345	7	1108
170, 784	Taft, Jerome C., Providence, R. I. Machine for sewing buttons to cloth, &c	Dec. 7, 1875	119	38	8	966
160, 969	Taft, Owen W., New York, N. Y. Handle for cutlery	Mar. 16, 1875	669	218	7	458
161, 295	Same. Attaching hollow handles to cutlery	Mar. 23, 1875	982	321	7	507
161, 573	Same. Table implement	Mar. 30, 1875	1267	407	7	552
167, 039	Same. Picture-nail	Aug. 24, 1875	837	261	8	343
161, 454	Taggart, John, Boston, Mass. Air and gas engine	Mar. 30, 1875	1147	370	7	537
162, 118	Taggart, Samuel, Indianapolis, Ind. Flour and sugar packer	Apr. 13, 1875	474	156	7	644
166, 906	Same. Auger for flour packers	Aug. 17, 1875	698	217	8	315
	Tagliabue, Guiseppe. (See Draper, Daniel, assignor.)					
	Same. (See Meucci, Antonio, assignor.)					
171, 590	Tainter, J. Burnham, Menomonee, Wis. Snap-hook	Dec. 28, 1875	920	301	8	1097
162, 119	Tait, Augustus H., Jersey City, N. J. Apparatus for preserving meat, fish, and vegetables	Apr. 13, 1875	476	157	7	645
162, 432	Same. Ice-machine	Apr. 20, 1875	785	265	7	691
163, 279	Same. same	May 11, 1875	521	169	7	822

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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171, 191	Tait, Thomas, Rochester, N. Y. Water-wheel.....	Dec. 14, 1875	508	167	8	1025
	Taite, Joseph G. (See Burnham & Taite.)					
170, 036	Talbotclark, Charles, assignor of two-thirds interest to William W. Leigh and Amos S. Warner, San Francisco, Cal. Cigar-machine.....	Nov. 16, 1875	699	220	8	841
168, 355	Talbott, Thomas, jr., Syracuse, N. Y. Shingling-bracket.....	Oct. 5, 1875	32	12	8	569
	Talcott, Samuel C. (See Andrews & Talcott.)					
	Same..... (See Williamson, William H., assignor.)					
6, 417	Talcott, Samuel C., Ashtabula, Ohio. Strap-loop..... (Reissue)..	May 4, 1875	250	80	7	780
6, 829	Same..... Measuring packaged fabrics..... (Reissue)..	Dec. 28, 1875	993	321	8	1106
165, 131	Same..... same.....	June 29, 1875	1226	394	7	1130
	Talcott, William A., et al. (See Barnes, John, assignor.)					
	Same..... (See Burson & Nelson, assignors.)					
	Same..... (See Cook, Andrew J., assignor.)					
	Talcott, William A. (See Prentice, Behel & Talcott.)					
161, 991	Talley, John W., assignor to self and Thomas W. Buell, Paxton, Ill. Seed-sower.....	Apr. 13, 1875	361	121	7	630
163, 703	Tallmadge, James D., Chicago, Ill. Coal-shovel.....	May 25, 1875	935	297	7	900
159, 052	Tallmadge, John E., Auburn, N. Y. Magazine-stove.....	Jan. 26, 1875	696	229	7	141
	Tallman, Jedediah M. (See Beaver & Tallman.)					
162, 869	Tallman, John C., New York, N. Y. Bosom-pad.....	May 4, 1875	121	40	7	763
159, 471	Tallman, William F., Mineville, N. Y., and James H. Manderville, Washington, D. C. Ball-and-socket-joint fastening.....	Feb. 2, 1875	218	70	7	214
169, 741	Talpey, Joseph A., Somerville, assignor of one-half interest to E. Emmons Graves, Boston, Mass. Time-signal for railways.....	Nov. 9, 1875	420	133	8	797
160, 851	Tamms, Henry, Bartlett, Ill. Mangle.....	Mar. 16, 1875	566	184	7	444
164, 332	Tandy, Mark, assignor of one-half interest to B. Mendenhall, Dallas City, Ill. Soldering-clamp.....	June 8, 1875	371	126	7	992
170, 970	Tanner, Charles M., Defiance, Ohio. Crosscut-saw handle.....	Dec. 14, 1875	304	101	8	998
	Tanner, Edgar V. (See Dexter & Tanner.)					
168, 589	Tanner, William, New Brighton, Pa., assignor of one-half interest to James H. McConnell. Stove-leg.....	Oct. 11, 1875	274	89	8	610
	Tapley Heel Burnishing Machine Association. (See Addy, Charles J., assignor.)					
167, 629	Tapley, Jesse F., Springfield, Mass. Calendar.....	Sept. 14, 1875	234	73	8	446
164, 056	Taplin, Albert J., Bloomington, Ill. Graining-roller.....	June 1, 1875	191	69	7	957
6, 650	Taplin, Alvin, Forestville, assignor to Bristol Brass and Clock Company, Bristol, Conn. Lamp-burner..... (Reissue)..	Sept. 21, 1875	662	210	8	516
161, 912	Taplin, Alvin, Forestville, Conn. Mode of forming sheet-metal threaded collars.....	Apr. 13, 1875	295	99	7	622
166, 319	Tappae, William H., assignor to Charles Whitlock, New York, N. Y. Machinery for making blinds.....	Aug. 3, 1875	123	38	8	217
	Tappey, W. H., et al. (See Beasley, Charles J., assignor.)					
164, 608	Tappey, William H., Alexander Steel, and Charles J. Beasley, Petersburg, Va.; said Beasley assignor to said Tappey and Steel. Cotton and hay press.....	June 15, 1875	725	236	7	1048
161, 839	Tapscott, John B., Clarksville, Tenn. Railway-rail-joint fastening.....	Apr. 6, 1875	221	74	7	600
	Tarbox, H. L. (See Tarbox, Jerome L. and H. L.)..... (Reissue)..					
6, 753	Tarbox, Jerome L. and H. L., New York, assignors, by mesne assignments, to John T. Andrews, 2d, Penn Yan, N. Y. Stencil-plate..... (Reissue)..	Nov. 16, 1875	834	262	8	858
171, 328	Tardos, Jules, jr., New Orleans, La. Apparatus for treating tallow, oils, &c.....	Dec. 21, 1875	660	217	8	1053
168, 590	Tarner, Charles M., Defiance, Ohio. Crosscut-saw handle.....	Oct. 11, 1875	274	89	8	610
169, 927	Tarr, Henry S., Philadelphia, Pa. Plumb-level.....	Nov. 16, 1875	616	191	8	830
159, 472	Tarr, John B., Fairhaven, Mass. Apparatus for casting ingots.....	Feb. 2, 1875	220	71	7	215
159, 530	Same..... Car-wheel.....	Feb. 9, 1875	293	94	7	232
164, 057	Tartiere, Lucien A., Elizabethport, N. J. Apparatus for casting hollow articles of cement.....	June 1, 1875	192	69	7	957
160, 038	Tascott, James B., Chicago, Ill. Glass compound for paints.....	Feb. 23, 1875	782	.....	7	311
161, 574	Tavener, Robert W., Bay City, Mich. Manufacture of medicated beer.....	Mar. 30, 1875	1268	407	7	552
158, 873	Taylor, Amos C., Ottokree, Ohio. Burglar-alarm.....	Jan. 19, 1875	498	168	7	108
	Taylor and Farley Organ Company. (See Norton, Jabez E., assignor.)					
162, 258	Taylor, Augustus E., New Britain, Conn. Toy pistol.....	Apr. 20, 1875	620	202	7	670
160, 730	Taylor, David, United States Army, assignor to self and Thomas Ewing, Tucson, Ariz. Cartridge-belt.....	Mar. 9, 1875	436	145	7	419
171, 639	Taylor, David, Leavenworth, Kans., assignor to self and Thomas Ewing, Tucson, Ariz. Cartridge-belt.....	Dec. 28, 1875	983	318	8	1105
	Taylor, De Witt C. (See Rhodes & Swartz, assignors.)					
168, 854	Taylor, De Witt C., Brooklyn, N. Y. Water-meter.....	Oct. 19, 1875	519	170	8	654
166, 947	Taylor, Ferdinand, Danbury, Conn. Lock for fire-arms.....	Aug. 24, 1875	751	233	8	331
161, 992	Taylor, Francis C., Danbury, Conn. Machine for stretching the tips of hat-bodies.....	Apr. 13, 1875	362	121	7	631
	Taylor, Franklin. (See Chandler & Taylor.)					
	Same..... (See Chandler, Thomas E., assignor.)					
167, 805	Taylor, Franklin, assignor to self and Thomas E. Chandler, Indianapolis, Ind. Ditching-machine.....	Sept. 14, 1875	393	126	8	469
160, 127	Taylor, Fred. J., Laporte City, Iowa. Spool-holder.....	Feb. 23, 1875	856	283	7	322
165, 890	Taylor, Gamaliel, De Witt, Mo. Earth-auger.....	July 20, 1875	747	229	8	135
168, 063	Taylor, George E., Philadelphia, Pa. Sheet-iron blank.....	Sept. 21, 1875	647	205	8	514
168, 808	Taylor, George T., Boston, Mass. Valve.....	Oct. 11, 1875	466	152	8	638
165, 132	Taylor, Harrison P., assignor to self and P. A. Painter, Minerva, Ohio. Guide for bench-planes.....	June 29, 1875	1226	394	7	1130
158, 753	Taylor, Harry S., Wilmington, Del. Lumber-drier.....	Jan. 12, 1875	366	125	7	75
167, 804	Taylor, Horace M., and Albert McCamish, assignor of one-third interest to William H. Smith, Bardstown; said Taylor, McCamish, and Smith assignors of one-fourth interest to Robert O. Loosley, Rock Island, Ill. Steam car-brake.....	Sept. 14, 1875	391	125	8	469
163, 952	Taylor, Jacob, Millerstown, Pa., assignor of one-half interest to Edw. F. Randolph, Ridgeway, N. Y. Torpedo for oil-wells.....	June 1, 1875	95	32	7	944
	Taylor, James E., et al. (See Piehl, John F., assignor.)					
162, 120	Taylor, James E., assignor to Taylor Manufacturing Company, Westminster, Md. Steam-engine cylinder.....	Apr. 13, 1875	477	157	7	645
162, 713	Same..... Horse hay-rake.....	Apr. 27, 1875	1068	340	7	734
168, 681	Taylor, James J. W., Havre de Grace, Md. Cinder-warder for railway-cars.....	Oct. 11, 1875	354	116	8	623
168, 807	Taylor, John, assignor of two-thirds interest to Lewis Harmony and Jabez S. Woodward, Lockport, N. Y. Pressure-regulator.....	Oct. 11, 1875	466	152	8	638
158, 754	Taylor, John F., Charleston, S. C. Sectional steam-boiler.....	Jan. 12, 1875	367	125	7	76
160, 731	Same..... Hydraulic packing.....	Mar. 9, 1875	437	145	7	420
162, 121	Same..... Platen for lever and toggle-presses.....	Apr. 13, 1875	447	157	7	645
165, 891	Same..... Hydraulic press.....	July 20, 1875	748	229	8	136
166, 653	Same..... Steam cylinder for cotton-presses.....	Aug. 10, 1875	444	137	8	270
167, 363	Same..... Combination cotton-press.....	Aug. 31, 1875	1152	362	8	394
166, 320	Taylor, John M., Boston, Mass. Parallel-ruler.....	Aug. 3, 1875	124	38	8	217
165, 040	Taylor, John R., Eagle Point, Ill. Pitman.....	June 29, 1875	1146	370	7	1119
	Taylor, Lee. (See Wood & Taylor.)					

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169, 928	Taylor, Lucian A., Skaneateles, N. Y. Horse hay-rake	Nov. 16, 1875	617	191	8	830
	Taylor Manufacturing Company. (See Taylor, James E., assignor.)					
	Taylor, Martin. (See Liddell, William, assignor.)					
163, 897	Taylor, Oliver L., Manlius, N. Y. Car-coupling	June 1, 1875	50	17	7	937
6, 741	Taylor, Robert B., Oconto, Wis. Clamp for shingle-packers	Nov. 16, 1875	819	258	8	857
6, 742	Same. Shingle-packer	Nov. 16, 1875	819	258	8	857
170, 971	Taylor, Royal C., Brockport, N. Y. Reel-rake for harvesters	Dec. 14, 1875	305	101	8	998
164, 405	Taylor, T. Chalkley, Philadelphia, Pa. Composition for coating blocks of caustic alkali	June 15, 1875	551	.....	7	1024
161, 993	Taylor, Van Rensselaer R., Syracuse, N. Y. Blacksmith's tuiere	Apr. 13, 1875	362	122	7	631
	Taylor, Warren H. (See Hermann & Taylor.)					
165, 631	Taylor, Warren H., Stamford, Conn. Lock	July 13, 1875	439	149	8	84
170, 205	Taylor, Warren H., and Thomas Donahue, Stamford, Conn. Curtain-roller and bracket	Nov. 23, 1875	890	278	8	874
158, 755	Taylor, William, Saint Louis, Mo. Boiler for water-heaters	Jan. 12, 1875	368	{ 125 126 }	8	84
	Taylor, William J., et al. (See Detwiller, Henry J., assignor.)					
166, 159	Taylor, William J., High Bridge, N. J. Calcining-kiln	July 27, 1875	1018	314	8	185
162, 206	Tayman, Benjamin F., assignor of one-half interest to James B. Roney, Philadelphia, Pa. Machine for edge-setting the soles of boots and shoes	Apr. 20, 1875	570	187	7	664
169, 061	Teachout, Albert P., Madison, assignor of one-half interest to Joseph Hayward, Cleveland, Ohio. Middlings-purifier	Oct. 19, 1875	711	235	8	681
169, 864	Teahl, John H., assignor to Davis R. Hendrix, Reading, Pa. Bearings for upright shatting	Nov. 9, 1875	547	170	8	813
166, 824	Teal, Charles A., Philadelphia, Pa. Hair-picker	Aug. 17, 1875	618	191	8	364
6, 309	Teal, Daniel E., New Lisbon, N. Y., assignor to Heywood Brothers & Co., Gardner, Mass. Tilting chair	Feb. 23, 1875	974	320	7	339
166, 907	Teas, Andrew, Newark, N. J. Harness-saddle tree	Aug. 17, 1875	699	217	8	315
170, 916	Same. Harness-saddle	Dec. 7, 1875	230	79	8	981
161, 575	Tebow, Theodore, assignor to self and John F. Miller, Lexington, Ky. Scale-beam	Mar. 30, 1875	1268	408	7	552
161, 576	Tebow, Theodore, Lexington, Ky. Scale-beam	Mar. 30, 1875	1269	408	7	552
163, 280	Same. Machine for finishing cordage, rope, &c.	May 11, 1875	523	{ 169 170 }	7	822
171, 192	Teed, Colby F., Elmira, N. Y. Bow and arrow	Dec. 14, 1875	510	168	8	1025
169, 385	Teed, Lorenzo P., Erie, Pa. Rooflug composition	Nov. 2, 1875	62	.....	8	743
	Teed, Pell. (See Tyler, Hiram, assignor.)					
	Teegarden, George. (See Teegarden, William, assignor.)					
159, 123	Teegarden, William, assignor of one-half interest to George Teegarden, Higginsport, Ohio. Hub for vehicle-wheels	Jan. 26, 1875	759	250	7	150
171, 490	Teets, Charles A., New York, N. Y. Stove-polish	Dec. 28, 1875	826	.....	8	1084
168, 428	Teets, Charles E., New York, N. Y. Hair-brush	Oct. 5, 1875	96	33	8	579
	Tefft, Walter. (See Reynolds & Tefft.)					
	Telford, George. (See Gordon, Myers, Telford & Hubbard.)					
	Same. (See Gordon, Telford & Myers.)					
171, 329	Tell, Horace, Bristol, Md. Portable fence	Dec. 21, 1875	661	217	8	1053
8, 254	Templeton, James. (See Greenwood & Templeton.)					
168, 936	Ten Eyck, Cornelius, White House Station, N. J. Towel-rack	Mar. 30, 1875	.....	.....	7	516
	Ten Eyck, Matthew C., Saint Paul, Minn. Tailors' drafting apparatus	Oct. 19, 1875	597	197	8	665
	Ten Eyck, Sanford R., et al. (See Adsitt, Eugene T., assignor.)					
164, 782	Tenney, Charles F., and Thomas J. Hobbs, assignors to Thompson, Perley & Waite, Baldwinsville, Mass. Combined carriage and chair for children	June 22, 1875	894	291	7	1079
161, 074	Terrell, Richard, New Orleans, La. Bale-tie	Mar. 23, 1875	770	254	7	480
161, 177	Same.	Mar. 23, 1875	867	283	7	493
161, 178	Same.	Mar. 23, 1875	867	284	7	493
160, 434	Terrey, Charles A., Southwark, England. Method of setting diamonds in drills	Mar. 2, 1875	205	70	7	378
165, 432	Terrill, Londus F. (See Scribner, George H., assignor.)					
	Terry, William A., Bristol, Conn. Calendar-clock	July 13, 1875	301	89	8	57
	Terwilliger, Alonzo H., et al. (See Adsitt, Eugene T., assignor.)					
168, 429	Terwilliger, William H., et al. (See Prentice, John, assignor)	Oct. 5, 1875	96	33	8	579
162, 122	Teske, Charles, Saratoga Springs, N. Y. Watch-regulator	Apr. 13, 1875	478	158	7	645
159, 230	Tesseyman, John, Dayton, Ohio, assignor to Preserved Smith. Steam-pump	Jan. 26, 1875	858	280	7	164
167, 710	Tetley, William, Pana, Ill. Umbrella	Sept. 14, 1875	303	96	8	456
161, 296	Same. Apparatus for holding meat in cutting	Mar. 23, 1875	982	321	7	507
	Tewksbury, Andrew J., Haverhill, Mass. Tray or screen for coal-gas purifiers					
	Thackara, Benjamin, et al. (See Blaisse, George F., assignor.)					
	Thackara, Charles, et al. (See Blaisse, George F., assignor.)					
	Thacker, William H. (See Willie, William T., assignor.)					
161, 994	Thackerey, Charles, assignor to Barrows & Boyd, New York, N. Y. Cork sole for shoes	Apr. 13, 1875	363	122	7	631
169, 742	Thackrah, Benjamin, Amsterdam, N. Y. Cloth-napping machine	Nov. 9, 1875	422	134	8	798
	Thatcher, John J., et al. (See Brittain, Richard J., assignor.)					
	Thayer, A. B. (See Emmert, John, assignor.)					
	Thayer, Charles W. (See Thayer, Olney S., assignor.)					
164, 233	Thayer, Eli, Worcester, Mass. Roofing composition	June 8, 1875	371	.....	7	992
	Thayer, Jasper. (See Chase, Charles H., assignor.)					
159, 531	Thayer, Jasper, New Orleans, La. Cotton-bale tie	Feb. 9, 1875	293	95	7	232
170, 972	Thayer, John A., Cambridgeport, Mass. Hatchet	Dec. 14, 1875	306	102	8	999
166, 731	Thayer, Olney S., assignor of one-half interest to Charles W. Thayer, Woonsocket, R. I. Washing-machine	Aug. 17, 1875	538	165	8	292
160, 852	Thayer, Walter W., New York, N. Y. Can for mixing paint	Mar. 16, 1875	566	184	7	444
168, 937	Thebaud, Victor C., Buffalo, N. Y. Sad-iron shoe	Oct. 19, 1875	598	197	8	665
167, 040	Theberath, Charles M., Newark, N. J. Harness-mounting	Aug. 24, 1875	837	261	8	343
164, 338	Theobald, John, Cleveland, Ohio. Clothes-drier	June 8, 1875	471	156	7	1005
171, 066	Theobald, Lewis, Plainwell, Mich. Grain-separator	Dec. 14, 1875	389	129	8	1009
170, 785	Thickins, John C., Washington Mills, N. Y. Loom-temple	Dec. 7, 1875	120	38	8	966
163, 898	Thielepape, Wilhelm C. A., and Herman Kroeschell, Chicago, Ill. Base for colors in painting with soluble silicates	June 1, 1875	51	.....	7	937
161, 297	Thiery, Charles, Newark, N. J. Ornamental chain	Mar. 23, 1875	983	321	7	508
162, 324	Thiery, Charles L., Boston, Mass. Machine for the manufacture of watch-cases	Apr. 20, 1875	675	221	7	678
	Thinnes, Frederick. (See Thinnes & Schueler.)					
162, 433	Thinnes, Jacob and Frederick, and Charles Schueler, Brooklyn, N. Y. Fastening for casters, knobs, &c.	Apr. 20, 1875	787	256	7	691
	Thissell, Earl A., et al. (See Johnson, Henry M., assignor.)					
	Thissell, Earl A. (See Lombard, Oliver D., assignor.)					
	Thistle, John, et al. (See Bell, Jasper N., assignor.)					
166, 948	Thode, Adolph, Brooklyn, N. Y. Washing-fluid	Aug. 34, 1875	752	.....	8	331
167, 711	Thom, Royal H., Syracuse, N. Y. Steam-generator	Sept. 14, 1875	303	96	8	456
171, 591	Thoma, Alois, Hoboken, N. J. Refrigerator-car	Dec. 28, 1875	921	302	8	1097

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169, 598	Thomacich, Vincente F., Mobile, Ala. Drive-well packing.....	Nov. 2, 1875	259	83	8	769
	Thomas, Alfred. (See Caffall & Thomas.)					
168, 939	Thomas, Amos D., Mount Etna, Iowa, assignor of one-half interest to W. D. Thompson. Separator-shoe for thrashing-machines.....	Oct. 19, 1875	599	198	8	666
164, 339	Thomas, Amos W., Philadelphia, Pa. Bustle.....	June 8, 1875	472	157	7	1005
164, 340	Same.....	June 8, 1875	473	157	7	1005
	Thomas, Catharine. (See Joyce, Thomas T., assignor.)					
161, 577	Thomas, Charles F., assignor of one-half interest to Herman Joerns, New York, N. Y. Coal-hod.....	Mar. 30, 1875	1270	408	7	553
160, 485	Thomas, Charles F., and Herman Joerns, New York, N. Y. Fire-escape elevator.....	Mar. 2, 1875	206	71	7	378
160, 039	Thomas, Chauncey, Boston, Mass. Landau.....	Feb. 23, 1875	783	258	7	311
168, 430	Same.....	Oct. 5, 1875	97	34	8	579
159, 717	Thomas, Chauncey, and William K. Parker, assignors to Chauncey Thomas and D. P. and L. B. Nichols, Boston, Mass. Carriage-flap fastener.....	Feb. 9, 1875	448	150	7	255
161, 913	Thomas, David W., Galesburgh, Ill. Thill-coupling.....	Apr. 13, 1875	296	100	7	622
165, 520	Thomas, Eddy T., Boston, Mass. Machine for attaching stamps and sealing letters.....	July 13, 1875	385	114	8	69
161, 717	Thomas, Eleazer, Pawtucket, R. I. Rest for truing off emery-wheels.....	Apr. 6, 1875	107	38	7	584
169, 059	Thomas, Frederick, Bloomington, Ill. Coffee-roaster.....	Oct. 19, 1875	710	234	8	680
169, 498	Same.....	Nov. 2, 1875	157	52	8	756
	Thomas, George S. (See Lawrence & Thomas.)					
	Thomas, Henry, et al. (See Frasch, Herman, assignor.)					
168, 064	Thomas, Hugh, New York, N. Y. Planer-chuck.....	Sept. 21, 1875	647	205	8	514
168, 938	Same.....	Oct. 19, 1875	598	198	8	665
	Thomas, John E. (See Richter, Rudolph, assignor.)					
164, 609	Thomas, John F., Ilion, N. Y. Fastening wheels and pulleys to shafts.....	June 15, 1875	726	237	7	1048
166, 039	Same.....	July 27, 1875	900	278	8	168
170, 917	Same.....	Dec. 7, 1875	231	79	8	982
170, 130	Thomas, John H., Springfield, Ohio. Horse-rake.....	Nov. 16, 1875	795	252	8	854
166, 568	Thomas, John R., Hamilton, Ohio. Die for forming the eyes of tools.....	Aug. 10, 1875	370	114	8	259
6, 216	Thomas, Leopold, Hoboken, N. J., assignor to American Hot Rolled Shafting Company, New York, N. Y. Machine for rolling metals..... (Reissue.)	Jan. 12, 1875	386	131	7	78
	Thomas, Ludlow & Rodgers. (See Bogle, James S., assignor.)					
	Thomas, Nicholas. (See Hull & Thomas.)					
160, 798	Thomas, Robert, Toronto, Canada. Cooking-stove.....	Mar. 16, 1875	525	169	7	438
170, 206	Same.....	Nov. 23, 1875	891	278	8	874
	Thomas, Robert P. (See Outland & Thomas.)					
161, 716	Thomas, Samuel A., Philadelphia, Pa. Mouth-piece lid for gas-retorts.....	Apr. 6, 1875	106	38	7	584
	Thomas, Samuel T. (See Johnson, Albert F., assignor.)					
161, 840	Thomas, Septimus, Philadelphia, Pa. Separating refuse from coal.....	Apr. 6, 1875	222	74	7	600
	Thomas, William W. (See Potter & Thomas.)					
166, 321	Thompkins, Albert. (See Thompkins, Ira and Albert.)					
163, 696	Thompkins, Ira and Albert, Troy, N. Y. Knitting-machine.....	Aug. 3, 1875	125	39	8	217
	Thompson, Albert, Stark, N. H. Clothes-line reel.....	July 20, 1875	561	171	8	110
	Thompson, Arthur F. (See Marsh & Thompson.)					
164, 610	Thompson, Charles H., Chicago, Ill. Die for welding cultivator-axles.....	June 15, 1875	727	237	7	1048
164, 664	Thompson, Charles H., Moline, Ill. Die for making land-sides for plows.....	June 22, 1875	787	258	7	1065
168, 591	Thompson, David B., assignor to Farnham Type Setter Manufacturing Company, Hartford, Conn. Type-setting machine.....	Oct. 11, 1875	275	89	8	610
160, 363	Thompson, Davis G., Waltham, Mass. Cable-stopper.....	Mar. 2, 1875	93	34	7	362
163, 545	Thompson, Elisha A., Daleville, Ala. Wagon-brake.....	May 18, 1875	687	249	7	873
162, 587	Thompson, George H., Georgetown, D. C. Ironing-table.....	Apr. 27, 1875	945	303	7	719
159, 862	Thompson, George M., Boston, Mass. Car-coupling.....	Feb. 16, 1875	600	199	7	280
170, 786	Thompson, Harry, assignor to self and George W. McConnell, Decatur, Ill. Tire.....	Dec. 7, 1875	120	39	8	966
	Thompson, Henry B. (See Tuttle & Thompson.)					
	Thompson, Henry G. (See Brewer, Roland L., assignor.)					
159, 473	Thompson, Henry G., and Charles Luke, Milford, Conn.; said Luke assignor to said Thompson. Tack-driving machine for boots and shoes.....	Feb. 2, 1875	221	72	7	215
159, 474	Same.....	Feb. 2, 1875	222	72	7	215
159, 475	Same.....	Feb. 2, 1875	223	72	7	215
162, 123	Thompson, Hugh M., Saint Louis, Mo. Compound for fire-bricks.....	Apr. 13, 1875	479		7	645
	Thompson, James B. (See Logan & Thompson.)					
	Thompson, James M. (See White, George W., assignor.)					
171, 064	Thompson, James P., Milwaukee, Wis. Adjustable draft-bar for cutters.....	Dec. 14, 1875	287	128	8	1009
168, 296	Thompson, John A., Readington, N. J. Cultivator.....	Sept. 28, 1875	872	279	8	552
161, 076	Thompson, John J., Goshen, N. Y. Sewing-machine attachment.....	Mar. 23, 1875	771	254	7	481
159, 000	Thompson, Joseph, Albany, Wis. Butter-worker.....	Jan. 19, 1875	636	207	7	125
162, 714	Thompson, Joseph W., assignor to self and Buckeye Engine Company, Salem, Ohio. Balanced and cut-off valve.....	Apr. 27, 1875	1068	340	7	734
162, 715	Same.....	Apr. 27, 1875	1069	340	7	734
167, 364	Same.....	Aug. 31, 1875	1153	363	8	395
171, 330	Thompson, Leslie H., Guide Rock, Nebr. Water-elevator.....	Dec. 21, 1875	661	218	8	1053
165, 275	Thompson, Lyman W., Cherry Valley, N. Y. Safety-pinion for watches.....	July 6, 1875	119	36	8	25
164, 611	Thompson, Orrin B., White Ash, assignor to Dexter Spring Company, Hulton, Pa. Fifth-wheel.....	June 15, 1875	727	237	7	1048
	Thompson, Perley & Waite. (See Tenney & Hobbs, assignor.)					
171, 067	Thompson, Robert, Stapleton, N. Y. Fire-place.....	Dec. 14, 1875	390	129	8	1009
159, 288	Thompson, Rosewell, Bridgeport, Conn. Button-hole-guide clamp.....	Feb. 2, 1875	41	15	7	190
159, 863	Thompson, Rosewell, assignor to Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Machine for making cutters for grooving needles.....	Feb. 16, 1875	601	199	7	280
167, 630	Same.....			200		
167, 806	Same.....	Sept. 14, 1875	235	73	8	446
164, 341	Thompson, Samuel, Hart's Falls, N. Y. Stone-sawing machine.....	Sept. 14, 1875	395	127	8	469
	Thompson, Selina, Pecatonica, Ill. Portable stove.....	June 8, 1875	474	157	7	1005
	Thompson, W. D. (See Thomas, Amos D., assignor.)					
167, 365	Thompson, William H., London, England. Machine for dressing stone.....	Aug. 31, 1875	1155	363	8	395
160, 123	Thompson, William J., Springfield, Mo., assignor of one-half interest to Springfield Iron Works. Water-wheel.....	Feb. 23, 1875	857	284	7	322
165, 632	Thompson, William M., Carlisle, Pa. Cart-chute.....	July 13, 1875	490	149	8	84
169, 060	Same.....	Oct. 19, 1875	711	235	8	680
161, 298	Thomson, Alexander, Worcester, Mass. Dip-pipe of gas works.....	Mar. 23, 1875	984	322	7	508
	Thomson, David W. (See Perry, Walter R., assignor.)					
169, 865	Thomson, John, Aledo, Ill. Check-rower.....	Nov. 9, 1875	548	171	8	813
6, 821	Thomson, John, and John Ramsey, Aledo, assignors, by mesne assignments, to George D. James W., Lysander L., and Mahlon Haworth, Decatur, Ill. Corn-planter. (Reissue.)	Dec. 21, 1875	706	262	8	1071
168, 855	Thomson, John N., Providence, R. I. Bracelet.....	Oct. 19, 1875	521	171	8	654
169, 929	Same.....	Nov. 16, 1875	617	191	8	830

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
161, 075	Thomson, Judson L., assignor of one-half interest to Francis N. Davis, Beloit, Wis. Paper barrel	Mar. 23, 1875	770	254	7	481
171, 250	Thomson, Polydore S., Jersey City, N. J. Mail-bag	Dec. 21, 1875	594	195	8	1014
166, 654	Thomson, Walter, Detroit, Mich. Hose-nozzle	Aug. 10, 1875	445	138	8	270
166, 485	Thorman, Julius, Terre Haute, Ind. Sash-fastener	Aug. 10, 1875	303	91	8	249
171, 065	Same. Combined burglar-alarm and indicator	Dec. 14, 1875	288	128	8	1009
166, 486	Thorman, Samuel, <i>et al.</i> (See Berchtold, Fidel, assignor.)					
166, 486	Thormann, John H., and Friederick Brumshagen, Baltimore, Md. Concrete pavement	Aug. 10, 1875	304	91	8	249
164, 342	Thorn, Theodore. (See Buechley & Thorn.)					
163, 546	Thorn, William J., Westbrook, Me. Horse-collar	June 8, 1875	474	157	7	1005
163, 115	Thorn, William S., New York, N. Y. Passenger-register	May 18, 1875	788	249	7	873
168, 856	Thornton, Augustus W., Oakland, and Martin Vice, San Francisco, Cal. Folding oar-lock	May 11, 1875	369	120	7	803
168, 856	Thornton, James, <i>et al.</i> (See Magruder, Thomas J., assignor.)					
168, 857	Thornton, James, Wellsville, assignor to Josiah Letchworth, Buffalo, N. Y. Trace-carrier	Oct. 19, 1875	522	171	8	654
170, 207	Thornton, James, Wellsville, assignor to Pratt & Letchworth, Buffalo, N. Y. Bridle-bit	Oct. 19, 1875	523	171	8	654
170, 207	Thornton, James, Wellsville, assignor of one-fourth interest to Pratt & Letchworth, Buffalo, N. Y. Halter-fastening	Nov. 23, 1875	892	278	8	874
170, 208	Same. Hame	Nov. 23, 1875	893	279	8	874
170, 209	Same. same	Nov. 23, 1875	893	279	8	874
162, 259	Thornton, Jesse, Cleveland, Ohio. Key-fastener	Apr. 20, 1875	620	202	7	671
169, 058	Thornton, John B., George H. McDonel, and Allen Hale, Fostoria, Ohio. Weed-turner	Oct. 19, 1875	709	234	8	600
168, 065	Thornton, John J., assignor of one-half interest to Dan H. Ridgway, Cleveland, Ohio. Compound balance-staff for watches	Sept. 21, 1875	649	206	8	514
	Thornton, T. Franklin. (See Stockford, Benjamin F., assignor.)					
	Thornton, William M., Saint Louis, Mo. Machine for creasing and finishing leather straps	Jan. 7, 1875			7	180
166, 040	Same. Spark-arrester for locomotives	July 27, 1875	201	278	8	109
167, 136	Thornycroft, John I., Chiswick, Great Britain. Screw-propeller	Aug. 24, 1875	932	290	8	356
166, 825	Thorp, Alfred H., New York, N. Y. Heating and ventilating device	Aug. 17, 1875	619	192	8	304
165, 769	Thorp Thomas J., Navarre, Ohio. Calendar	July 20, 1875	624	192	8	119
167, 954	Thorsen, Lewis E., assignor of one-half interest to Stiles S. Northup, Clinton, Wis. Automatic gate	Sept. 21, 1875	531	170	8	498
163, 544	Thoss, Julius, and Adolph Trautmann, Baltimore, Md. Passenger-register	May 18, 1875	786	249	7	873
170, 918	Thrall, William H., <i>et al.</i> (See Smith, Heman S., assignor.)					
164, 234	Thrash, Isaac T., assignor of two-thirds interest to John M. Williams and Daniel S. Muse, Griffin, Ga. Medical composition	Dec. 7, 1875	232		8	982
6, 629	Throckmoton, Miles A., Andersonville, Ohio. Corn-marker	June 8, 1875	372	126	7	952
160, 243	Throop, Gardner E., Syracuse, N. Y. Grain-cleaning machine	Sept. 7, 1875	197	62	8	433
167, 204	Same. Brush for grain-cleaners	Feb. 23, 1875	957	314	7	337
170, 429	Thurber, Albert E., assignor to Cyrus F. Andrews, Providence, R. I. Direction-card	Aug. 31, 1875	1016	316	8	375
	Thurber, John G., jr., assignor to Joseph P. Manton, Providence, R. I. Game-board	Nov. 23, 1875	1090	343	8	902
168, 682	Thursby, Samuel I. (See Moore, Daniel, assignor.)					
169, 128	Thurstin, Earl A. (See Shannon, John A., assignor.)					
166, 949	Thurston, Charles H., Marlborough, N. H. Wardrobe and other hooks	Oct. 11, 1875	355	116	8	623
158, 756	Thurston, George A., Cambridge, Mass. Plastering safety-plates	Oct. 26, 1875	799	259	8	700
169, 599	Thurston, Harrison F., Porter, Me. Wash-boiler	Aug. 24, 1875	752	233	8	331
168, 683	Tibbals, S. Lee, Osakis, Minn. Saw-gummer	Jan. 12, 1875	369	126	7	76
167, 137	Tibbals, Louis P., New York, N. Y. Umbrella-top for carriages	Nov. 2, 1875	260	84	8	769
164, 343	Tickner, Arvin C., Syracuse, N. Y. Device for preventing horses from cribbing	Oct. 11, 1875	356	116	8	623
159, 718	Tiebout, John, Brooklyn, N. Y. Exercising-machine	Aug. 24, 1875	933	291	8	356
163, 547	Tiffany, George E., assignor of one-half interest to William H. Richardson, Indianapolis, Ind. Tailor's device for laying out garments	June 8, 1875	475	158	7	1006
163, 548	Tiffany, Joel, Chicago, Ill. Refrigerator-floor	Feb. 9, 1875	449	150	7	255
164, 058	Tiffany, Joseph C., Portsmouth, N. H. Promoting combustion in furnaces	May 18, 1875	788	250	7	873
170, 414	Same. System of gearing for gasometers	May 18, 1875	789	250	7	873
	Same. Gas-retort	June 1, 1875	192	69	7	957
160, 970	Tiffany, Joseph C., Coxsackie, N. Y. Process for preventing or removing naphthalene deposit in gas-conduits	Nov. 23, 1875	1076		8	900
165, 383	Tilden, Howard, Philadelphia, Pa. Key-ring	Mar. 16, 1875	670	219	7	458
170, 415	Tillinghast, John A. (See Sweet, John, assignor.)					
162, 507	Tilney, William D., Crawfordsville, Ind. Tailor's measure	July 6, 1875	227	68	8	39
160, 244	Tilp, Emil, Vienna, Austria. Car-platform	Nov. 23, 1875	1077	339	8	900
163, 899	Tilton, Francis W., New Bedford, Mass. Metallic loop for coats	Apr. 27, 1875	879	281	7	711
170, 787	Tilton, Joseph, New York, N. Y. Spring side bar for vehicles	Feb. 23, 1875	958	315	7	337
164, 665	Tilton, Joseph C., Pittsburgh, Pa. Butter-package	June 1, 1875	52	17	3	937
8, 860	Tilton, Nathaniel O., Savannah, Ga. Rice-mortar	Dec. 7, 1875	120	39	8	966
168, 809	Tilton, Smilie, Atlantic, Iowa. Instrument to prevent calves from sucking	June 22, 1875	788	258	7	1065
171, 447	Tim, Louis, Philadelphia, Pa. Collar and cuff box	Dec. 21, 1875			8	1034
171, 448	Timby, Theodore R., Tarrytown, N. Y. Attachment for cooking-stoves	Oct. 11, 1875	467	152	8	638
165, 892	Same. Spike	Dec. 21, 1875	767	253	8	1068
163, 824	Same. same	Dec. 21, 1875	768	253	8	1068
168, 297	Timmer, August F. W., Coblenz, Germany. Breech-loading fire-arm	July 20, 1875	749	229	8	136
166, 487	Timmerman, Gerhard H., Saint Louis, Mo. Magazine heating-stove	May 25, 1875	1038	329	7	914
158, 608	Tingley, Albert H., Providence, R. I. Heat-regulator for hot-air furnaces	Sept. 28, 1875	872	279	8	553
	Tinker, Henry H. (See Jones, Andrew J., assignor.)					
	Tinkham, William, Providence, R. I. Furnace-grate	Aug. 10, 1875	304	91	8	249
163, 117	Tinnerholm, Charles J., Keokuk, Iowa, assignor to Niels Petersen, New York, N. Y., and Peter A. Brodin, Erie Hedman, and John Oquist, Keokuk, Iowa. Manufacture of leather	Jan. 12, 1875	242		7	58
163, 118	Tinsley, George W., Minneapolis, Minn. Hydrocarbon-gas apparatus	May 11, 1875	370	120	7	803
	Same. Gas-burner	May 11, 1875	371	121	7	803
169, 040	Tisdal, James V., <i>et al.</i> (See Ludwig, John C., assignor.)					
159, 001	Tisdale, Charles D., Boston, Mass. Railway-switch	Feb. 23, 1875	784	258	7	311
166, 431	Tisdale, William S., New York, N. Y., assignor of one-half interest to William Hellius, Jersey City, N. J. Kindling material	Jan. 19, 1875	627		7	125
168, 114	Tittman, Alexander Chauncey, assignor to self and Henry S. Daggett, La Fayette, Ind. Electro-magnetic engine	Aug. 3, 1875	234	72	8	232
159, 979	Titus, John C., Marion, Ohio, assignor to William Haven, Clymer, N. Y. Rotary engine	Sept. 28, 1875	707	223	8	529
162, 124	Titus, Josiah B., assignor to self and John McLean, New York, N. Y. Saw-set	Feb. 16, 1875	709	235	7	294
169, 062	Tobey, Charles W., Canastota, N. Y. Rafting-crib	Apr. 13, 1875	480	158	7	645
167, 281	Tobey, Frank O., Boston, Mass. Sole-fastening	Oct. 19, 1875	713	235	8	681
	Tobey, Lyman, Naples, N. Y. Attachment for lamps	Aug. 31, 1875	1079	337	8	384

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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169, 600	Tobey, William M., New London, Conn. Ironing-board	Nov. 2, 1875	260	84	8	769
	Tobin, Joseph F. (See Morse, George F., assignor.)					
169, 313	Todd, George M., Waterloo, Iowa. Plow attachment	Oct. 26, 1875	967	313	8	723
168, 684	Todd, George W., Allegheny, assignor of one-half interest to W. W. Speer, Pittsburgh, Pa. Grate-bar	Oct. 11, 1875	356	116	8	623
163, 034	Todd, Lyman L., Chicago, Ill. Rumbler for cleaning castings	May 11, 1875	298	96	7	793
165, 384	Same..... Seal-lock	July 6, 1875	228	69	8	39
6, 673	Todd, Westley, Ottokoe, Ohio, assignor, by mesne assignments, to P. Duff, E. A. Kitzmiller, and R. P. Duff, Allegheny County, Pa. Wash-board..... (Reissue)	Oct. 5, 1875	216	70	8	595
170, 314	Toedt, Frederick, New York, N. Y. Hinge	Nov. 23, 1875	986	309	8	887
161, 179	Toepfer, Wenzel, Milwaukee, Wis. Grain-separator	Mar. 23, 1875	868	284	7	493
163, 421	Same..... Beer-cooler	May 18, 1875	666	213	7	858
167, 712	Toepperwein, Emil A. F., Boerne, Tex. Magazine fire-arm	Sept. 14, 1875	304	97	8	456
171, 193	Toll, Charles F., Boston, Mass. Sewing-machine	Dec. 14, 1875	511	168	8	1026
161, 455	Tolley, Frederick W., Coxsackie, N. Y. Cultivator	Mar. 30, 1875	1149	371	7	537
159, 289	Tomlinson, James, Goderich, Canada, assignor to self and Harriet M. Gage. Machine for coiling hoops	Feb. 2, 1875	43	15, 16	7	190
159, 719	Tomlinson, Joseph, Mount Vernon, N. Y. Chimney-cowl	Feb. 9, 1875	450	150	7	255
159, 476	Tomlinson, Nathan, Cisne, Ill. Manure-distributor	Feb. 2, 1875	223	73	7	215
159, 477	Tomlinson, Ralph, Boston, and Joseph Smith, Somerville, Mass. Automatic damper-regulator	Feb. 2, 1875	224	73	7	215
159, 124	Tomlinson, Ralph, and Joseph Smith, Boston, Mass. Pawl and ratchet	Jan. 26, 1875	760	250	7	150
159, 720	Tommasi, Lorenzo, New Rochelle, N. Y. Baby-walker	Feb. 9, 1875	451	151	7	255
	Tompkins, Albert. (See Tompkins, Ira and Albert.)					
164, 666	Tompkins, Charles R., Rochester, N. Y. Planing-machine	June 22, 1875	789	259	7	1065
	Tompkins, Hamilton B., et al. (See Gillespie, Richard S., assignor.)					
163, 119	Tompkins, Ira and Albert, Troy, N. Y. Take-up for knitting-machines	May 11, 1875	371	121	7	803
160, 853	Tompkins, Samuel E., Sing Sing, N. Y. Bird-food holder	Mar. 16, 1875	567	184	7	444
159, 231	Tongue, Henry, Chicago, Ill. Flue-cover	Jan. 26, 1875	858	280	7	164
162, 716	Tongue, William T., Liverpool, England. Insect-destroyer	Apr. 27, 1875	1070	{ 340 } { 341 }	{ 7 }	{ 734 }
164, 406	Tooker, Robert N., Chicago, Ill. Fire-alarm signal-box	June 15, 1875	552	180	7	1024
	Toole, John. (See Albough & Toole.)					
169, 206	Toole, Julius L., Williston, S. C. Portable cotton-ginning, &c., machine	Oct. 26, 1875	859	220	8	710
170, 604	Toomey, Jeremiah, Woonsocket, R. I. Hose-nozzle	Nov. 30, 1875	1272	401	8	934
158, 757	Toope, Charles, New York, N. Y. Furnace-grate bar	Jan. 12, 1875	370	126	7	76
159, 864	Topliff, Cyrus L., Brooklyn, N. Y. Barrel-roller	Feb. 16, 1875	604	200	7	230
166, 950	Topliff, John A., assignor of one-half interest to George H. Ely, Elyria, Ohio. Carriage-bow	Aug. 24, 1875	753	233	8	331
161, 995	Toppan, Daniel L., Somerville, assignor to self, David C. and Hopkins H. Meloon, East Cambridge, and Gardner B. Chapin, Medford, Mass. Planing-machine	Apr. 13, 1875	363	122	7	631
163, 342	Same..... Drill for drilling metal	May 18, 1875	601	192	7	849
	Topping, George. (See Blood & Topping.)					
166, 160	Topping, George, Chicago, Ill. Clothes-pin	July 27, 1875	1021	314	8	186
	Torbert, William H., et al. (See Stearns, Charles A., assignor.)					
	Torley, John J., et al. (See Kinzer, Jacob, assignor.)					
	Same..... (See McConway, William, assignor.)					
166, 826	Torley, William E., Milwaukee, Wis. Grain-separator	Aug. 17, 1875	620	192	8	304
169, 063	Torlotin, Eugene, Paris, France. Composition for stiffening and dressing straw hats.....	Oct. 19, 1875	713	.....	8	681
	Torr, Charles C., et al. (See Baxter, De Witt C., assignor)					
170, 131	Torrey, Hiram, Philadelphia, Pa., and Darius Lyman, Washington, D. C. Sash-holder	Nov. 16, 1875	797	252	8	854
160, 971	Torsch, Charles H. and Henry F., jr., Baltimore, Md. Advertising medium	Mar. 16, 1875	670	219	7	458
	Torsch, Henry F., jr. (See Torsch, Charles H. and Henry F., jr.)					
167, 589	Tostevin, Alfred, New York, N. Y. Sewing-cabinet	Sept. 7, 1875	187	58	8	433
169, 064	Tostevin, Thomas, Council Bluffs, Iowa. Chair-bottom	Oct. 19, 1875	714	236	8	681
169, 065	Same..... Chair	Oct. 19, 1875	715	236	8	681
160, 364	Toucey, John M., and William H. Smith, New York, and William Buchanan, Yonkers, N. Y. Switch-locking device	Mar. 2, 1875	94	35	7	362
164, 612	Same..... Switch-signaling apparatus	June 15, 1875	728	238	7	1048
161, 077	Tougas, John B., assignor of one-half interest to Albion P. Richardson, Worcester, Mass. Self-closing water-cock	Mar. 23, 1875	773	254	7	481
165, 385	Toulmin, Morton, Washington, D. C. Ellipsograph	July 6, 1875	230	69	8	40
168, 940	Same..... Car-starter	Oct. 19, 1875	599	198	8	666
165, 186	Tower, George E., Annapolis, Md., assignor of one-eighth interest to Eli P. Wetherwax, West Sandlake, N. Y. Valve-gear	July 6, 1875	43	13	8	15
165, 187	Tower, George E., Annapolis, Md., assignor of one-eighth interest to Robert W. Bell, Schodack Landing, N. Y. Valve for steam-engines	July 6, 1875	45	13	8	15
6, 766	Tower, Levi L., Boston, Mass., assignor to Orestes Cleveland, Jersey City, N. J. Eraser-holder and pencil-point protector..... (Reissue)	Nov. 23, 1875	1104	346	8	904
6, 767	Same..... same	Nov. 23, 1875	1105	347	8	904
8, 385	Tower, Levi L., Boston, Mass. Fountain-inkstand	June 8, 1875	.....	.....	7	968
	Towers, Michael, jr. (See Brownback, March, Rogers & Towers)					
	Towle, Hamilton E. (See Benton, John B., assignor.)					
168, 195	Towle, Hamilton E., New York, N. Y. Bell-punch	Sept. 28, 1875	783	249	8	540
162, 717	Towle, Hamilton E., and John B. Benton, New York, N. Y. Passenger-register	Apr. 27, 1875	1071	341	7	734
	Towle, James W. (See Ratliff & Towle.)					
168, 194	Towle, Porter B., Haverhill, Mass. Buck-saw frame	Sept. 28, 1875	783	249	8	540
163, 549	Towne, Alban N., San Francisco, Cal. Train-telegraph	May 18, 1875	790	750	7	873
161, 299	Towne, Franklin E., Boston, Mass. Gang-saw mill	Mar. 23, 1875	985	322	7	508
160, 486	Towns, William F., Ravenna, Ohio. Earthen bucket	Mar. 2, 1875	208	71	7	378
	Townsend, Henry E. (See Lambart, Richard C., assignor.)					
171, 195	Townsend, Henry L., Bath, N. Y. Grain-tally	Dec. 14, 1875	513	169	8	1026
8, 366	Townsend, Isaac, Philadelphia, Pa. Medal	June 1, 1875	.....	.....	7	926
170, 315	Townsend, Jacob, and John N. Parr, Eagletown, Ind. Corn-harvester	Nov. 23, 1875	986	309	8	887
	Townsend, John F. (See Viall, Townsend & Hill.)					
171, 449	Townsend, Mark, Port Norris, N. J. Steering apparatus	Dec. 21, 1875	768	253	8	1068
171, 194	Townsend, Owen W., Fond du Lac, Wis. Core-auger	Dec. 14, 1875	513	169	8	1026
166, 322	Townsend, William H., Goodland, Ind. Trace-carrier	Aug. 3, 1875	125	39	8	217
	Towsley, Lovias D. (See Van Kannel & Towsley.)					
165, 188	Towsley, Lovias D., Cincinnati, Ohio. Automatic mixing-valve for gas-machines	July 6, 1875	47	14	8	15
167, 631	Toye, Napoleon, Covington, Ky. Hot-air furnace	Sept. 14, 1875	237	73, 74	8	446
170, 498	Tozer, Edmund C., Newcastle, Canada. Freezing apparatus	Nov. 30, 1875	1171	{ 369 } { 370 }	{ 8 }	{ 921 }
165, 386	Tracy, Christopher C., assignor to Shaw and Rogers Lead Company, New York, N. Y. Device for the manufacture of cames.....	July 6, 1875	231	69, 70	8	40

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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170, 416	Tracy, Harriet R., New York, N. Y. Sewing-machine table.....	Nov. 23, 1875	1078	340	8	900
	Tracy, George S. (See Galt & Tracy.)					
171, 197	Tracy, John D., and James F. Platt, Sterling, Ill. Hook for harrows.....	Dec. 14, 1875	522	172	8	1027
165, 387	Tracy, Lewis W., assignor to Shaw and Rogers Lead Company, New York, N. Y. Device for the manufacture of printers' leads.....	July 6, 1875	232	70	8	40
	Tracy, Samuel. (See McMahon & Tracy.)					
163, 615	Tracy, William C., Brooklyn, N. Y. Dental flask.....	May 25, 1875	865	272	7	891
159, 478	Trafton, John W., Springfield, Mass. Self-closing faucet.....	Feb. 2, 1875	225	73	7	45
171, 198	Trageser, John, New York, N. Y. Making sheet-metal ware.....	Dec. 14, 1875	523	172	8	1027
162, 125	Trammell, Erasmus R., Clough's Store, Ala. Cotton-gin rib.....	Apr. 13, 1875	481	158	7	645
162, 434	Trapp, Edward A., Davenport, Iowa. Railway-switch.....	Apr. 20, 1875	787	256	7	691
163, 422	Traub, Adolph, New York, N. Y. Life-preserver.....	May 18, 1875	667	213	7	858
159, 865	Traut, Justus A., New Britain, Conn. Block-plane.....	Feb. 16, 1875	605	200	7	280
163, 431	Traut, Justus A., and Henry Richards, New Britain, Conn. Bench-plane.....	Oct. 5, 1875	98	34	8	579
	Trautmann, Adolph. (See Thoss & Trautmann.)					
8, 280	Trautmann, Ralph, New York, N. Y. Picture-mount..... (Design) ..	Apr. 20, 1875			7	651
8, 663	Traver, Zachariah R., Detroit, Mich. Spice-can..... (Design) ..	Feb. 16, 1875			7	261
160, 732	Travis, Charles L., Great Valley, N. Y., assignor to Grain-Binder Company, Tremont, Ohio. Grain-binder.....	Mar. 9, 1875	437	145	7	420
160, 972	Same..... Grain-band.....	Mar. 16, 1875	671	219	7	458
162, 435	Travis, Charles L., assignor to Star Manufacturing Company, Minneapolis, Minn. Machine for perforating tubes for tube-mills.....	Apr. 20, 1875	788	256	7	691
	Travis, George W. (See Carter, Charles W., assignor.)					
168, 298	Travis, Joseph H., Boston, Mass. Foot-rest for chairs.....	Sept. 28, 1875	873	279	8	553
169, 314	Same..... Rocking-chair.....	Oct. 26, 1875	968	313	8	723
	Travis, William T. (See Folliard & Travis.)					
	Trax, David L. (See Malcolmson, Thomas, assignor.)					
169, 386	Trayser, George, Richmond, Ind. Upright piano.....	Nov. 2, 1875	63	18	8	743
158, 543	Treadway, James W., Crown Point Centre, N. Y. Car-coupling.....	Jan. 5, 1875	166	57	7	32
168, 941	Treadway, William M., Port Henry, N. Y. Gun-sight.....	Oct. 19, 1875	600	199	8	666
158, 653	Treadwell, William B., Albany, N. Y. Magazine cooking-stove.....	Jan. 12, 1875	285	96	7	64
161, 180	Same..... Cooking stove and range.....	Mar. 23, 1875	869	284	7	493
169, 601	Same..... Heating-stove.....	Nov. 2, 1875	261	84	8	769
	Treat, Charles R. (See Yates & Treat.)					
	Treat, Leveritt B. (See Latham, Charles W., assignor.)					
	Trenaman, Richard. (See Elam, Jabez, assignor.)					
160, 290	Trenchard, Stephen D., New York, N. Y. Telescopic tower for light-ships.....	Mar. 2, 1875	30	12	7	353
168, 432	Trenchard, Stephen D., assignor to self and Walton Brothers, New York, N. Y. Ship's log.....	Oct. 5, 1875	98	34	8	579
169, 312	Trenkman, August, Brooklyn, N. Y. Tortoise-shell handle for fire-arms.....	Oct. 26, 1875	966	313	8	723
159, 232	Trethewey, Samuel, assignor to Metcalf, Paul & Co., Pittsburgh, Pa. Machine for forming spiral washers.....	Jan. 26, 1875	859	280	7	164
	Trevor, Francis N. (See Trevor, William W., assignor.)					
166, 041	Trevor, William W., assignor to self and Francis N. Trevor, Lockport, N. Y. Machine for making barrel-heads.....	July 27, 1875	902	278 279	8	169
159, 980	Trible, Herndon, and Nicholas A. Davis, Rusk, Tex. Propelling device for street-cars and the like.....	Feb. 16, 1875	710	235	7	294
170, 081	Trimble, Charles B., New York, N. Y. Lathing-machine.....	Nov. 16, 1875	700	220 221	8	841
166, 432	Trinks, Gregor, New York, N. Y. Machine for making ornamental chains.....	Aug. 3, 1875	235	72	8	232
	Tripp, George S., et al. (See Guzman, William A., assignor.)					
170, 417	Tripp, John W., Bellaire, Ohio. Window-sash-bead fastener.....	Nov. 23, 1875	1079	340	8	900
	Tripp, Nathan M. (See Nickerson & Tripp.)					
	Tripp, P. R. (See Wescott, Edwin J., assignor.)					
164, 235	Tripp, Seth D., Lynn, Mass. Machinery for beating out the soles of boots and shoes.....	June 8, 1875	373	127	7	992
169, 930	Same..... Welt-cutting and counter-skiving machine.....	Nov. 16, 1875	618	192	8	830
	Trissler, Henry W. (See Trissler, William H. and Henry W.)					
167, 955	Trissler, William H. and Henry W., Cleveland, Ohio. Eave-trough hanger.....	Sept. 21, 1875	531	170	8	498
	Triumph Safety Powder Company. (See Courteille, Herrenstein, assignor.)					
	Troegeler, Heinrich A. (See Henckler & Troegeler.)					
167, 138	Troll, Joseph, Belleville, Ill. Tellurian.....	Aug. 24, 1875	934	291	8	357
	Trott, Hermann, et al. (See Qvist, Peter M., assignor.)					
	Trott, Lemuel G. (See Decker, William, assignor.)					
8, 255	Trotter, Andrew R., Providence, R. I. Ornamentation of rubber boots and shoes. (Case A. Design) ..	Mar. 30, 1875			7	516
8, 256	Same..... same..... (Case B. Design) ..	Mar. 30, 1875			7	516
	Trotter, Charles W., administrator. (See Trotter, Jonathan G.)					
163, 704	Trotter, Jonathan G., deceased, by Charles W. Trotter, administrator, Brooklyn, N. Y. Process of making white oxide of zinc.....	May 25, 1875	935	297	7	900
166, 655	Troutman, Columbus C., Nelson Furnace, Ky. Medical composition.....	Aug. 10, 1875	446		8	270
163, 550	Trowbridge, Charles E., Whitinsville, Mass. Holder for spinning-rings.....	May 18, 1875	792	250	7	873
166, 161	Trowbridge, John H., Brooklyn, assignor to George H. Wooster, New York, N. Y. Sewing-machine guide.....	July 27, 1875	1022	314	8	186
158, 544	Troy, Abiezer M., Judd, Wis. Thill-coupling.....	Jan. 5, 1875	167	57	7	32
	Truax, Job. (See Black & Truax.)					
8, 417	Truax, Job, Mount Union, Pa. Bottle..... (Design) ..	June 22, 1875			7	1057
166, 323	Truax, William, Hamilton, Mich. King-bolt for wagons.....	Aug. 3, 1875	126	39	8	217
167, 417	Trudeau, Toussaint, Ottawa, Canada. Globe for gas-lights.....	Sept. 7, 1875	35	10	8	411
167, 713	Same..... Gas-burner.....	Sept. 14, 1875	305	97	8	456
162, 126	True, Lorenzo W., Talladega, Ala. Sulky-plow.....	Apr. 13, 1875	481	158 159	7	645
	True, Virgil. (See Gillespie & True.)					
164, 613	Truesdale, Charles, assignor to William Resor & Co., Cincinnati, Ohio. Stove-reservoir.....	June 15, 1875	729	238	7	1048
171, 450	Trulender, Frederick, Harmersville, N. J. Horse-power.....	Dec. 21, 1875	769	253	8	1068
164, 344	Trullinger, John C., Portland, Oreg. Wagon-brake.....	June 8, 1875	476	158	7	1006
	Truly, Jacob. (See Judson, Andrew J., assignor.)					
166, 656	Trumbo, John M., Metropolis City, Ill. Evaporating-pan.....	Aug. 10, 1875	446	138	8	270
161, 456	Trumbull, David, jr., Coulterville, Cal. Ore-crusher.....	Mar. 30, 1875	1150	371	7	537
162, 588	Trump, Charles N., and Samuel N., Wilmington, Del. Scroll-sawing machine.....	Apr. 27, 1875	945	304	7	719
158, 447	Trump, Fuller, assignor to James Leffel & Co., Springfield, Ohio. Steam-pump.....	Jan. 5, 1875	82	28	7	21
	Trump, Samuel N. (See Trump, Charles N. and Samuel N.)					
160, 973	Trumper, Charles J., Indianapolis, Ind. Awning.....	Mar. 16, 1875	672	219	7	458
	Trussell, John W. (See Kellogg & Trussell.)					
166, 162	Truworthy, Francis M., San Francisco, Cal. Marking-wheel.....	July 27, 1875	1023	315	8	186

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163, 281	Tryon, Philo N. (<i>See Price, John J., assignor.</i>)	May 11, 1875	525	170	7	823
161, 300	Tscheulin, George J., Baltimore, Md. Device for transmitting power.	Mar. 23, 1875	988	322	7	508
162, 115	Tubbs, Joel B., Waterloo, N. Y. Barrel for shot-guns.	Sept. 28, 1875	707	224	8	529
170, 920	Tubbs, Laurence G. (<i>See Brown & Tubbs.</i>)					
169, 743	Tuchfarber, Frank, Cincinnati, Ohio. Ornamenting and marking wheel.	Dec. 7, 1875	233	80	8	982
6, 338	Tuck, George H. (<i>See Goodrich, Barnard, assignor.</i>)	Nov. 9, 1875	423	{ 134 } 135	8	798
160, 627	Tuck, Nelson L., Chicopee, Mass. Fruit-basket.	Mar. 16, 1875	692	227	7	462
170, 919	Tucker, Argyle W., assignor to self and L. J. Stroop, Waxahachie, Tex. Machine for binding grain.	Mar. 9, 1875	343	116	7	407
170, 132	Tucker, Erwin W., Indianapolis, Ind., assignor, by mesne assignments, to Charles H. Dunks, New York, N. Y. Bed-bottom.	Dec. 7, 1875	232	79	8	982
168, 685	Tucker, George W., assignor to American Ring Company, Waterbury, Conn. Handle for umbrellas, parasols, &c.	Nov. 16, 1875	798		8	854
168, 686	Tucker, Horace N., assignor of one-half interest to Francis Packard, 2d, Stoughton, Mass. Child's sled.	Oct. 11, 1875	357	117	8	623
171, 196	Tucker, Joseph C., New York, N. Y. Artificial stone.	Oct. 11, 1875	358	117	8	623
162, 974	Tucker, Stephen D., New York, N. Y. Feed-gage for printing-presses.	Dec. 14, 1875	514	{ 169 } 170 171	8	1026
160, 365	Same..... Rotary paper-folding machine.	May 4, 1875	224	72	7	776
160, 366	Tucker, Theophilus, Oakland, Cal. Shoe-fastening.					
163, 282	Tucker, Thomas, <i>et al.</i> (<i>See Smith, Almon J., assignor.</i>)					
170, 605	Tucker, William. (<i>See Andrews & Tucker.</i>) (Reissue.)	Mar. 2, 1875	94	35	7	362
161, 181	Tucker, William, Fiskdale, Mass. Bit-stock.	Mar. 2, 1875	95	35	7	362
170, 210	Same..... Machine for turning pattern-cams.	May 11, 1875	525	170	7	823
159, 721	Same..... Auger and auger-bit.	Nov. 30, 1875	1273	401	8	935
158, 761	Same..... Engine-lathe.	Mar. 23, 1875	870	285	7	493
160, 628	Tuckerman, Albert W., Boston, Mass. Box-scraper.	Nov. 23, 1875	894	279	8	874
159, 981	Tuckerman, Samuel C., Cambridge, Mass. Shutter-fastener.					
159, 316	Tufts, James W. (<i>See Shepherd, Frank H., assignor.</i>) (Design.)	Feb. 9, 1875	451	151	7	255
6, 689	Same..... (<i>See Shepherd & Schwab, assignors.</i>) (Design.)					
165, 133	Tufts, Lewis C. (<i>See Smith, Minard M., assignor.</i>)	Jan. 12, 1875	373	127	7	76
166, 569	Tufts, Nathaniel, Boston, Mass. Gas-light governor.	July 20, 1875	774	237	8	140
168, 810	Tulley, John. (<i>See Upham, Garrett & Tully.</i>)	Mar. 9, 1875	343	116	7	407
164, 496	Tullis, John K., Glasgow, North Britain. Leather-dressing machine.	Feb. 16, 1875	710	236	7	294
170, 606	Tullock, James, Jamestown, Cal. Ore-stamp feeder.	Feb. 2, 1875	74	25	7	194
168, 592	Tullock, James, Sonora, Cal. Ore-feeder.	Oct. 11, 1875	481	{ 156 } 157	8	640
158, 758	Tully, Thomas, Springfield, Ill., assignor of one-half interest to W. H. Doan, Cleveland, Ohio. Faucet.	June 29, 1875	1227	395	7	1130
164, 783	Tulton, David S., Paris, Pa. Harvester-reel.	Aug. 10, 1875	371	114	8	260
164, 783	Tupper, Horace, Bay City, Mich., assignor, by mesne assignments, to John B. Slawson, New York, N. Y. Fare-box.	Oct. 11, 1875	481	{ 156 } 157	8	640
164, 783	Tupper, Martin L. (<i>See Perry, Henry K., assignor.</i>)					
164, 614	Turley, Marshall, Council Bluffs, Iowa. Truss.	June 22, 1875	895	291	7	1079
162, 207	Turnbull, Andrew, assignor to Landers, Freary & Clark, New Britain, Conn. Letter-scales.	June 15, 1875	730	238	7	1049
171, 491	Turnbull, Andrew, and Francis N. Frost, New Britain, assignors to Franklin Roys, East Berlin, Conn. Lawn-mower.	Apr. 20, 1875	571	187	7	664
162, 508	Turneaure, Robert, Belvidere, Ill. Boot-tree.	Dec. 28, 1875	826	271	8	1084
158, 759	Turner, Archibald, Leicester, England. Elastic fabric.	Apr. 27, 1875	879	281	7	711
168, 592	Turner, Benjamin, London, England. Hinge.	Jan. 12, 1875	372	127	7	76
158, 758	Turner, Benjamin G., Fremont, Nebr. Wheel for harvesters, &c.	Mar. 23, 1875	988	323	7	508
168, 433	Turner, Caleb R., Brooklyn, N. Y. Smoked-beef shaver.	Apr. 13, 1875	364	122	7	631
158, 545	Turner, Edward S., Hester, Mo. Hand corn-planter.	May 4, 1875	255	72	7	776
164, 783	Turner, George, assignor of one-half interest to Le Grand Whitcomb, Kalamazoo, Mich. Device for converting motion.	Oct. 5, 1875	33	13	8	569
164, 614	Turner, Isaac P., Troy, N. Y. Bank-check, &c.	Jan. 12, 1875	371	127	7	76
162, 207	Turner, James, Montreal, Canada. Feed-gage for printing-presses.	Sept. 28, 1875	785	249	8	540
171, 491	Turner, James, Chicago, Ill. Refrigerator-car.	Sept. 14, 1875	397	127	8	470
162, 508	Turner, James W., Boston, Mass. Paper box.					
158, 760	Turner, John. (<i>See O'Leary & Turner.</i>)					
161, 301	Turner, John, Grosse Isle, Mich. Railway-car truck.	June 29, 1875	1072	345	7	1108
161, 996	Same..... Spring-case for draw-bars.	Aug. 17, 1875	539	{ 165 } 166	8	292
162, 975	Turner, John, Lonsdale, R. I. Let-off mechanism for looms.	Mar. 16, 1875	568	185	7	444
168, 356	Turner, John C., Newark, N. J. Extension-table slide.	Sept. 7, 1875	87	27	8	418
158, 759	Turner, Lewis W., Wallingford, assignor of one-half interest to G. J. Capewell, Cheshire, Conn. Pot-lid.	Sept. 7, 1875	87	27	8	419
168, 196	Turner, Reuben D., New York, N. Y. Hydrocarbon furnace and atomizing apparatus.	Jan. 26, 1875	760	250	7	151
167, 807	Turner, William, Millerstown, Pa. Hoisting apparatus.	Feb. 2, 1875	226	73	7	216
164, 949	Turney, George L., London, England. Paper-box machine.	Apr. 13, 1875	364	123	7	631
166, 732	Turpie, John, assignor to self and Edward H. Faulkner, New York, N. Y. Filling-hook for weaving hair-cloth.	Feb. 23, 1875	958	315	7	337
166, 732	Same..... Loom for weaving hair-cloth.	June 29, 1875	1228	{ 395 } 396	7	1130
160, 854	Tutewiler, John W., Indianapolis, Ind. Congress-gaiter.	July 6, 1875	49	14	8	15
167, 480	Tuttle, C. W. (<i>See Bliss, Francis D., assignor.</i>)	Apr. 20, 1875				
167, 481	Tuttle, Edward A., New York, N. Y. Hot-air register.	Apr. 27, 1875				
159, 125	Same..... same.	Apr. 27, 1875				
159, 479	Tuttle, George A., and Henry B. Thompson, Lawrence, Mass. Car-coupling.	Apr. 27, 1875				
161, 997	Tuttle, Sterling D. (<i>See Fetta & Tuttle.</i>)	Apr. 27, 1875				
160, 245	Tuttle, Sterling D., and Benjamin F. Larsh, Eaton, Ohio, assignors to Sterling D. Tuttle. Heater.	Apr. 27, 1875				
165, 135	Tuxworth, D. Howard, Baltimore, Md. Clamp for vehicle-wheels.	Apr. 27, 1875				
165, 189	Twamley, James, Saint Paul, Minn. Shirt.	Apr. 27, 1875				
8, 281	Tweddell, Ralph H., Sunderland, Great Britain, assignor to William Sellers, Philadelphia, Pa. Riveting-machine.	Apr. 27, 1875				
8, 293	Tweddell, Herbert W. C., Pittsburgh, Pa. Manufacture of gas.	Apr. 27, 1875				
8, 294	Tweddell, William, Brooklyn, N. Y. Vase.	Apr. 27, 1875				
8, 295	Same..... Street-lamp post.	Apr. 27, 1875				
8, 296	Same..... same.	Apr. 27, 1875				
8, 297	Same..... same.	Apr. 27, 1875				
8, 325	Same..... same.	Apr. 27, 1875				
8, 356	Same..... Vase-pedestal.	Apr. 27, 1875				
	Same..... Lamp-post.	May 11, 1875				
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8, 392	Tweeddale, William, Brooklyn, N. Y. Drinking-fountain (Design)	June 15, 1875			7	1014
8, 660	Same.....Stove (Design)	Sept. 21, 1875	.....	.....	8	475
8, 713	Same.....Fountain (Design)	Oct. 11, 1875	.....	.....	8	600
165, 134	Tweeddale, William, Brooklyn, assignor to J. L. Mott Iron Works, New York, N. Y. Fire-place	June 29, 1875	1227	395	7	1130
167, 956	Twitchell, Henry, Pulaski, N. Y. Water-wheel	Sept. 21, 1875	532	170	8	498
159, 866	Twitchell, Henry, and George E. Parsons, Pulaski, N. Y. Snow-plow	Feb. 16, 1875	606	200	7	280
165, 388	Tylhurst, Robert, Dresden, Ohio. Eave-trough	July 6, 1875	232	70	8	40
	Tyler, Edward. (See Farmer & Tyler.)					
170, 973	Tyler, Erastus H., Medway, Mass. Spring	Dec. 14, 1875	307	102	8	999
	Tyler, Henry C. (See Wilder, McNeil & Tyler.)					
	Same..... (See Wilder, McNeil & Tyler.)					
159, 480	Tyler, Hiram, assignor of one-half interest to Pell Teed, Geneseo, N. Y. Thill-coupling	Feb. 2, 1875	227	74	7	216
159, 982	Tyler, Hiram, assignor of two-thirds interest to Josiah Warren and N. H. Geerhart, Geneseo, N. Y. Explosive shell	Feb. 16, 1875	711	236	7	294
167, 366	Tyler, Hiram, Geneseo, N. Y. Pump	Aug. 31, 1875	1156	364	8	395
	Tyler, John J. (See Chichester, Lewis S., assignor.)					
168, 942	Tyler, Royal, Ellsworth, Me. Device for turning eggs	Oct. 19, 1875	601	199	8	666
6, 6 9	Tyler, Samuel W., Troy, N. Y. Harvester (Reissue)	Aug. 24, 1875	950	297	8	359
159, 002	Tyler, Thomas W., assignor of one-half interest to Frank M. Lockwood, Corry, Pa. Car-heater	Jan. 19, 1875	628	208	7	125
163, 551	Tyrrell, Peter G., New York, N. Y. Fire-proof roofing	May 18, 1875	792	251	7	873
160, 041	Tyson, Bryan, Washington, D. C. Ore-separator	Feb. 23, 1875	785	259	7	311
168, 116	Same.....Gold washer and separator	Sept. 22, 1875	710	224	8	529
6, 483	Tyson, Charles, Philadelphia, Pa., assignor, by mesne assignments, to Charles D. Bigelow, Brooklyn, N. Y. Machine for screwing the uppers on to the soles of boots and shoes (Reissue)	June 8, 1875	500	{ 164 165 }	7	1009
164, 345	Tyson, Charles, Philadelphia, Pa., assignor to Charles D. Bigelow, New York, N. Y. Machine for screwing the uppers on to the soles of boots and shoes	June 8, 1875	477	{ 158 159 }	7	1006
	Tyson, William W., et al. (See Hardman, John H., assignor.)					
	Uderitz, Christoph J. (See Rummig & Uderitz.)					
168, 117	Uhl, Charles F., et al. (See Shawk, George W., assignor) (Reissue)	Sept. 28, 1875	711	224	8	529
	Uhr, John, Erie, Pa. Portable engine					
	Uilting, Leonard. (See Schneider & Uilting.)					
167, 957	Ulrich, Friedrich H., New York, N. Y. Tailor's measure	Sept. 21, 1875	533	171	8	498
161, 841	Ulman, Isidor, Cairo, Ill. Corset	Apr. 6, 1875	223	75	7	601
169, 931	Ulman, William F., Boston, Mass. Piano-forte pedal	Nov. 16, 1875	619	192	8	830
169, 932	Same.....Piano-forte-stringing device	Nov. 16, 1875	620	192	8	830
164, 112	Ulmar, John B., assignor to self and George R. Kelso, Boston, Mass. Sleeve-button, &c.	June 8, 1875	264	90	7	978
169, 744	Ulrich, Friedrich H., New York, N. Y. Apparatus for drafting tailors' patterns	Nov. 9, 1875	426	{ 135 136 }	8	798
6, 643	Ulrich, William, and Charles Hachmeister, assignors to Andrew Albright, Newark, N. J. Harness-rosette (Reissue)	Sept. 14, 1875	410	131	8	472
159, 621	Umholtz, Augustus, Tremont, Pa. Lamp-extinguisher	Feb. 9, 1875	358	119	7	242
165, 893	Umland, George D., Osceola Mills, Wis. Stove-pipe joint	July 20, 1875	751	230	8	136
160, 487	Umstead, William O., assignor of one-third interest to John F. Baldwin, Saint Clairs-ville, Ohio. Hand-carriage	Mar. 2, 1875	208	71, 72	7	378
164, 616	Uncles, Benjamin, assignor of one-half interest to Charles Kelly, Baltimore, Md. Mail-bag catch	June 15, 1875	732	239	7	1049
167, 139	Underdown, Americus R., Philadelphia, Pa. Overcoat	Aug. 24, 1875	936	291	8	357
159, 290	Underhill, John K., Turlock, Cal. Sofa-bedstead	Feb. 2, 1875	44	16	7	190
167, 714	Underhill, Phineas S., Fort Wayne, Ind. Lamp-burner	Sept. 14, 1875	306	97	8	457
170, 607	Underhill, William M., Oconto, Wis. Lamp-pendant	Nov. 30, 1875	1276	402	8	935
168, 943	Underwood, Alexander and Eddy A., Newark, N. J. Binding for oil-cloth and matting	Oct. 19, 1875	601	199	8	666
160, 129	Underwood, Angeline, Carrollton, Ill. Land-pulverizer	Feb. 23, 1875	858	284	7	322
	Underwood, Eddy A. (See Underwood, Alexander and Eddy A.)					
160, 555	Underwood, Erastus C., Boston, Mass. Weather-strip	Mar. 9, 1875	281	95	7	398
158, 610	Underwood, Henry M., Kenosha, Wis. Hand-truck	Jan. 12, 1875	243	82	7	28
169, 499	Underwood, John K., Sauk Centre, Minn. Rotary gang-plow	Nov. 2, 1875	157	52	8	756
161, 578	Underwood, John M., Newark, N. J. Whip-socket	Mar. 30, 1875	1271	408	7	553
171, 069	Underwood, John R., Nelsonville, Ohio. Churn-dasher	Dec. 14, 1875	391	130	8	1009
160, 556	Underwood, Lester, Ottawa, Ill. Hay-loader	Mar. 9, 1875	281	96	7	398
	Union Ice Company. (See Cook, Thomas, assignor.)					
	Union Manufacturing Company. (See Bishop, George G., assignor.)					
	Same..... (See Johnson, Moses, assignor.)					
	Same.....same (Reissue)					
	Union Paper Collar Company. (See Gray, Solomon S., assignor) (Reissue)					
	Union Patent Seam Company. (See Brackett & Whitcomb, assignors) (Reissue)					
	Union Steel Screw Company. (See Bidwell & Jaquith, assignors.)					
	Union Water Meter Company. (See Ball & Fitts, assignors.)					
	United Nickel Company. (See Adams, Isaac, jr., assignor) (Reissue)					
	United States Power Press Company. (See Martin, Benjamin G., assignor.)					
	United States Soapstone Manufacturing Company. (See Lanstrom, Reinhold, assignor.)					
168, 944	Unsworth, Peter, Algiers, La. Mode of curing moss	Oct. 19, 1875	602	.....	8	666
169, 315	Unsworth, Thomas, Preston, England. Doubling-machine	Oct. 26, 1875	969	{ 313 314 }	8	724
162, 778	Unverzagt, George P., Baltimore, Md. Machine for laminating the stems in leaf-tobacco	May 4, 1875	40	13	7	752
165, 041	Unverzagt, William, assignor to self and I. A. Chase, Memphis, Tenn. Lock for doors	June 29, 1875	1147	370	7	1119
168, 687	Upham, Henry H., John Garrett, and John Tully, New York, N. Y. Wire sign and banner	Oct. 11, 1875	359	118	8	623
160, 974	Upham, Nehemiah, Athol, Mass. Rotary pump	Mar. 16, 1875	673	220	7	458
170, 648	Same.....Stop-cock	Nov. 30, 1875	1311	414	8	940
	Upson, A. S. (See Hart, Hubert C., assignor.)					
8, 064	Upton, Frank S., Rochester, N. Y. Bottle (Design)	Feb. 16, 1875	.....	.....	7	261
171, 068	Urie, Thomas S., Carson City, Mich. Plow-point	Dec. 14, 1875	391	129	8	1009
163, 423	Usher, John H., Buffalo, N. Y. Railway-track scales	May 18, 1875	668	214	7	858
168, 357	Uster, John, Brooklyn, N. Y. Screw for heels and soles of boots and shoes	Oct. 5, 1875	33	13	8	569
164, 113	Ustick, Stephen, Philadelphia, Pa. Car-coupling	June 8, 1875	265	91	7	978
168, 197	Same.....same	Sept. 28, 1875	786	{ 249 250 }	8	540
171, 492	Utendorf, Garat J., Ottawa, Ohio. Clover thrasher and huller	Dec. 28, 1875	827	{ 271 272 }	8	1084
166, 657	Vabe, Philibert, and Hippolyte Cuan, Paris, France. Apparatus for drawing or raising water, &c.	Aug. 10, 1875	448	138	8	270
165, 389	Vahldieck, Andreas, Johnsonville, Wis. Straw-cutter	July 6, 1875	233	71	8	40

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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162, 589	Vail, George C., Madison, Ind. Railway-rail-joint fastening	Apr. 27, 1875	946	304	7	720
161, 363	Vail, Isaac G., Logan County, Ill. Corn-dropper	Mar. 30, 1875	1061	345	7	526
168, 811	Vail, Jacob L., Tom's River, N. J. Lifting-jack	Oct. 11, 1875	469	153	8	638
166, 733	Vail, Oliver E., New York, N. Y. Folding rocking-chair	Aug. 17, 1875	543	167	8	292
170, 032	Vail, Samuel S., Keokuk, Iowa. Reversible steam-boiler	Nov. 16, 1875	701	221	8	842
	Vaill, Edward W. (See Born, Peter, assignor)					
	Same					
	Same					
	Same					
161, 914	Valance, Isaac W., Lansingburgh, N. Y. Trunk-fastening	Apr. 13, 1875	297	100	7	622
168, 541	Valentine, William P., San Francisco, Cal. Shingle-machine	Oct. 5, 1875	205	67	8	593
158, 762	Valentine, William T., Albany, N. Y. Weather-strip	Jan. 12, 1875	374	127	7	76
166, 042	Valley, James, Canton, Ohio. Metallic truss-bridge	July 27, 1875	903	279	3	169
	Valley Machine Company. (See Wright, William, assignor)					
169, 317	Van, John, Cincinnati, Ohio. Heating-stove	Oct. 26, 1875	971	315	8	724
162, 870	Van Arnam, James W., Watertown, N. Y., assignor to self and Charles T. Greene, New-town, Conn. Egg-tester	May 4, 1875	122	40	7	763
164, 114	Van Arsdale, Theodore C., Brooklyn, N. Y. Revolving paint-exhibitor	June 8, 1875	266	91	7	978
160, 042	Van Benschoten, Henry E., Ghent, N. Y. Sole for boots and shoes	Feb. 23, 1875	786	259	7	312
169, 602	Van Brunt, Willard A., Horicon, Wis. Lifting device for seeders and cultivators	Nov. 2, 1875	263	85	8	769
171, 070	Van Bunschoten, Isaac, New York, N. Y., assignor to Joseph Christian, Sharpsburgh, Pa., and Samuel Christian, Putnam Valley, N. Y. Cooking-stove	Dec. 14, 1875	392	130	8	1010
160, 557	Van Buren, Jafew S., Troy, N. Y. Cooking-stove	Mar. 9, 1875	283	86	7	398
168, 299	Van Buskirk, William G., assignor of one-half interest to Charles L. Kimball, Fishkill Landing, N. Y. Spark-arrester for locomotives	Sept. 28, 1875	874	280	8	553
	Van Campen, Harry D. (See Downing & Van Campen.)					
161, 182	Vance, Samuel B. H., New York, N. Y. Gas-wrench	Mar. 23, 1875	870	285	7	493
162, 871	Same	May 4, 1875	122	40	7	763
161, 302	Van Cleave, Thomas Y., Cornersville, Tenn. Wagon	Mar. 23, 1875	989	323	7	508
159, 722	Van de Carr, Reuben D., Rochester, N. Y. Canister	Feb. 9, 1875	452	151	7	255
165, 136	Vandegrift, Theodore F. and William, assignors of one-half interest to Oscar Wade, Wabash, Ind. Cultivator	June 29, 1875	1232	396	7	1130
	Vandegrift, William. (See Vandegrift, Theodore F. and William.)					
167, 367	Vandemark, Archibald B., New York, N. Y. Rotary engine	Aug. 31, 1875	1158	364 365 366	8	395
164, 347	Van De Mark, Charles, Hillsdale, Mich. Portable fence	June 8, 1875	483	159 160	7	1006
164, 407	Same	June 15, 1875	554	180	7	1024
166, 827	Same	Aug. 17, 1875	620	192	8	305
	Van Derbeck, Henry. (See Murray, Thomas W., assignor.)					
167, 958	Vandercook, Frank E., assignor of one-half interest to Wallace & Sons, Ansonia, Conn. Corset-fastening	Sept. 21, 1875	534	171	8	498
166, 570	Vanderhoof, Orson G., Knoxville, Tenn. Diamond millstone-dressing machine	Aug. 10, 1875	371	114	8	260
164, 236	Vanderveer, Elias, jr., Manolapan, N. J. Potato-digger	June 8, 1875	374	127	7	992
167, 590	Vanderventer, William, Peoria, Ill. Door-check	Sept. 7, 1875	187	58	8	433
	Van Dervort, Nicholas W. (See Van Dervort, William V. and Nicholas W.)					
170, 418	Van Dervort, William V. and Nicholas W., New Antioch, Ohio. Cradle	Nov. 23, 1875	1080	340	8	900
6, 250	Vander Waag, Johannes A., Brooklyn, N. Y., assignor by mesne assignments to Augustus Cooke, Cincinnati, Ohio. Velocipede	Jan. 26, 1875	875	285	7	167
	Van Deusen, Isaac S. (See McGavin, John, assignor.)					
168, 542	Van Devost, Cornelius, and Cornelius Van Fleet, Phelps, N. Y. Distilling oils	Oct. 5, 1875	206	67	8	593
	Vandewater, Charles H. (See Boelsen, Frederikka, assignor.)					
158, 547	Van De Water, James H., Conquest, N. Y., assignor of one-half interest to George A. Crooker, Ashtabula, Ohio. Washing-machine	Jan. 5, 1875	170	58	7	33
	Vandiver Corn Planter Company. (See Barlow, Joseph C., assignor.)					
162, 779	Van Doren, Francis, Adrian, Mich. Corn-planter	May 4, 1875	41	13	7	752
171, 592	Van Doren, Henry, South Branch, N. J. Double-acting pump	Dec. 28, 1875	923	302	8	1098
161, 303	Van Drelzen, John A., Peoria, Ill. Picture-mount	Mar. 23, 1875	990	324	7	508
	Van Dressar, Milford. (See Kellogg, Orson W., assignor.)					
162, 976	Van Dusen, Charles, assignor of one-half interest to F. S. Devol and E. A. Maginness, New Albany, Ind. Fire-extinguisher	May 4, 1875	226	73	7	776
6, 488	Van Duzer, Isaac F., Middletown, N. Y. Plumber's joint	June 15, 1875	752	246	7	1052
165, 190	Van Duzer, Isaac F., Middletown, assignor to Charles Harrison, New York, N. Y. Combined cock and anti-concussion valve	July 6, 1875	50	14	8	15
170, 211	Van Duzer, Josiah B., and Riley Johnston, Sheshequin, Pa. Chain-pump bucket	Nov. 23, 1875	895	279	8	874
169, 316	Van Dyck, John H., Lewinsville, Va. Water-elevator	Oct. 26, 1875	970	314	8	724
	Van Dyke, Thomas, et al. (See Bloomer, William, assignor.)					
161, 915	Van Dyke, Thomas, New York, N. Y. Journal for balance-wheels	Apr. 13, 1875	299	100	7	623
162, 718	Van Dyne, Jacob B., Louisville, Ky. Fire-extinguisher	Apr. 27, 1875	1073	341	7	735
162, 719	Same	Apr. 27, 1875	1074	341	7	735
	Van Fleet, Cornelius. (See Van Devost & Van Fleet.)					
161, 078	Van Fossen, George, John E. and Martin, Bethesda, Ohio. Harvester-cutter	Mar. 23, 1875	773	255	7	481
	Van Fossen, John E. (See Van Fossen, George, John E., and Martin.)					
	Van Fossen, Martin. (See Van Fossen, George, John E., and Martin.)					
161, 579	Van Gieson, William H., White Water, Wis. Projectile for rifled ordnance	Mar. 30, 1875	1271	409	7	553
164, 237	Van Gosen, Edward, Forest, Ohio. Press	June 8, 1875	375	127	7	992
	Van Haagen, Anthony. (See Van Haagen, Claus, assignor.)					
159, 481	Van Haagen, Claus, assignor to self and Anthony Van Haagen, Philadelphia, Pa. Metal-drilling machine	Feb. 2, 1875	227	74	7	216
159, 723	Van Haagen, Claus, assignor of one-half interest to Anthony Van Haagen, Philadelphia, Pa. Grinding-apparatus	Feb. 9, 1875	453	151	7	255
	Van Hoesen, Abraham A., executor. (See Mathieson, James W., assignor.)					
	Van Hoesen, Abraham H., executor. (See Hartley & Marshall, assignors.)					
	Van Hoorde, Jean F. (See Rolland & Van Hoorde.)					
165, 390	Van Hoosen, Casper, New York, N. Y. Paper-bag machine	July 6, 1875	234	71, 72	8	40
162, 590	Van Horn, Albert E., and Joseph Wideman, Sebewaing, Mich. Vehicle-seat lock	Apr. 27, 1875	947	304	7	720
158, 546	Van Horn, Andrew, Brooklyn, N. Y. Steam-heater	Jan. 5, 1875	169	58	7	32
	Vanhorn, Joseph S. (See Pack & Vanhorn.)					
166, 234	Van Horne, Robert P., Gratiot, assignor of one-half interest to W. S. Palmer, Brownsville, Ohio. Curry-comb	Aug. 3, 1875	45	14	8	205
161, 457	Van Kannel, Theophilus, Cincinnati, Ohio. Automatic cistern-supply regulator	Mar. 30, 1875	1151	371	7	537
169, 745	Van Kannel, Theophilus, and Lovias D. Towsley, Cincinnati, Ohio; said Van Kannel assignor to said Towsley. Combined pressure-gage and heat-regulator	Nov. 9, 1875	429	136	8	798
169, 746	Same	Nov. 9, 1875	430	136	8	798
169, 747	Same	Nov. 9, 1875	431	136	8	799

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169, 603	Van Kersen, Izaak, Kalamazoo, Mich. Rotary-engine.	Nov. 2, 1875	264	85	8	770
	Van Lier, Alexander M. (See Warner, Oliver S., assignor.)					
	Vanmeter, Jacob R. (See Kenworthy & Vanmeter.)					
	Vanneoar, Edmund B., et al. (See Stearns, Charles A., assignor.)					
170, 649	Vannice, John W., Crawfordsville, Ind. Dumping-device for filling graves.	Nov. 30, 1875	1312	414	8	940
168, 540	Van Noubuys, Isaac, assignor to self and Thomas P. King, Brooklyn, N. Y. Heel-trimming machine.	Oct. 5, 1875	203	67	8	593
167, 808	Vanorder, Jacob W., and George Savage, Sloan, Iowa. Rotary-engine.	Sept. 14, 1875	399	128	8	470
	Van Orsdale, Augustus. (See Newman & Van Orsdale.)					
	Van Patten, Frederick. (See Clapp & Van Patten.)					
165, 276	Van Patten, William J., assignor to Wells, Richardson & Co., Burlington, Vt. Insect-powder box.	July 6, 1875	119	36	8	25
8, 487	Van Slyck, Christopher, and Henry S. De Forest, Schenectady, N. Y. Neck of broom-heads.	July 13, 1875			8	49
8, 755	Van Stavoren, Samuel J., Philadelphia, Pa. Inkstand.	Oct. 26, 1875			8	689
165, 456	Vanstone, Samuel, Providence, R. I. Stand for flowers.	July 13, 1875	327	96	8	60
167, 861	Vanstone, Samuel, Providence, assignor of two-thirds interest to Henri E. Bacon, Pawtucket, and Lysander Flagg, Lincoln, R. I. Feed-device for rolling-mills.	Sept. 21, 1875	460	145	8	487
166, 951	Van Syckel, Samuel, Titusville, Pa., assignor to George H. Clarke, Brooklyn, N. Y. Grate-bar.	Aug. 24, 1875	754	233	8	331
166, 163	Vanurder, William, assignor of one-half interest to John Frederickson, Woodbury, Ind. Bee-hive.	July 27, 1875	1024	315	8	186
165, 137	Van Vechten, Junius R., Brooklyn, N. Y. Paper box.	June 29, 1875	1233	397	7	1130
163, 552	Van Velsor, William E., Philadelphia, Pa. Pill-tilt.	May 18, 1875	793	251	7	874
162, 872	Van Vleet, Charles W., Waterloo, N. Y. Addressing-machine.	May 4, 1875	123	41	7	763
	Vanvoorbis, E. T. (See Shoemaker & Jones, assignors.)					
161, 842	Van Wagenen, Albert, Boston, Mass. Screw-threaded wire for use in manufacture of boots and shoes.	Apr. 6, 1875	224	75	7	601
166, 658	Same. Leather tip for boots and shoes.	Aug. 10, 1875	448	138	8	271
166, 659	Same. Nail-strip for sole-fastenings.	Aug. 10, 1875	450	139	8	271
166, 660	Same. Shoe-tip.	Aug. 10, 1875	451	139	8	271
166, 661	Same. Nail-strip for sole-fastenings.	Aug. 10, 1875	452	139	8	271
166, 662	Same. same.	Aug. 10, 1875	453	139	8	271
166, 663	Same. same.	Aug. 10, 1875	454	140	8	271
166, 664	Same. Inner sole for boots and shoes.	Aug. 10, 1875	455	140	8	271
169, 933	Van Wagenen, Garrett, Monroe, Wis., and Melvin D. Goble, Dubuque, Iowa. Horse-collar.	Nov. 16, 1875	621	192	8	830
159, 532	Van Winkle, Edward, Atlanta, Ga. Cotton-condenser for cotton-gins.	Feb. 9, 1875	294	95	7	232
163, 900	Van Winkle, Edward, Atlanta, Ga. Cotton-press.	June 1, 1875	53	18	7	938
158, 654	Van Winkle, Garret, Kalamazoo, Mich. Burial-case.	Jan. 12, 1875	287	96	7	64
159, 779	Van Winkle, Garrett, Avon, Ill. Sulky-attachment to plows.	Feb. 16, 1875	525	175	7	270
	Van Wormer & McGarvey. (See Barnes, Joseph C., assignor.)					
8, 426	Van Wormer, Jasper, and Michael McGarvey, Albany, N. Y. Ornamentation of stove-doors.	June 22, 1875			7	1057
8, 458	Same. Stove. (Design).	July 6, 1875			8	4
159, 126	Van Zandt, Robert S., Williamsburgh, N. Y. Step-ladder.	Jan. 26, 1875	761	250	7	151
164, 498	Same. Fountain-brush.	June 15, 1875	633	204	7	1035
171, 199	Same. Attachment for heels of boots and shoes.	Dec. 14, 1875	524	173	8	1027
159, 867	Varian, Samuel T., Plainfield, N. J. Weather-strip for windows.	Feb. 16, 1875	607	201	7	280
163, 424	Varley, John, assignor to Stephen Hickson, New York, N. Y. Method of booking gold-leaf.	May 18, 1875	669		7	858
	Varney, Alfred S. (See Elms, William, assignor.)					
163, 616	Varney, John W., assignor of one-half interest to John B. Hereford, Virginia City, Nev. Machine for saving quicksilver.	May 25, 1875	867	273	7	891
	Varns, Tobias L., et al. (See Pruett, William, assignor.) (Reissue.)					
164, 346	Varns, Tobias L., Kokomo, Ind. Rotary pressure-blower.	June 8, 1875	482	159	7	1006
	Varnum, Henry C., et al. (See Varnum, William, assignor.)					
162, 780	Varnum, William, assignor to James E. Larkin and Henry C. Varnum, Sharon, Vt. Ox-bow pin.	May 4, 1875	41	13	7	752
	Varrell, William D., et al. See Morrison, Josiah H., assignor.)					
	Varwig, Henry. (See Brenner, Rudolph, assignor.)					
170, 788	Vasques, Charles L., assignor to Rex & Bockins, Philadelphia, Pa. Gas-generating apparatus.	Dec. 7, 1875	121	39	8	966
8, 282	Vasseur, Herman, assignor to Simpson, Hall, Miller & Co., Wallingford, Conn. Pitcher. (Design).	Apr. 20, 1875			7	651
	Vassie, William. (See Willson & Vassie.)					
159, 127	Vater, Bernhard, New York, N. Y. Feathering paddle-wheel.	Jan. 26, 1875	761	251	7	151
161, 843	Vaughan, Arthur J., Lodi, Wis. Snap-hook.	Apr. 6, 1875	225	75	7	601
	Vaughan, Walter R. (See Brown & Vaughan.)					
	Same. (See Howe, Henry, assignor.)					
159, 482	Vaughn, Aaron C., Rainsburgh, Pa. Lamp-burner.	Feb. 2, 1875	229	74	7	216
8, 809	Vaughn, Joseph W., assignor of one-half interest to Albert H. Whidden, Peabody, Mass. Coffin-hinge.	Nov. 23, 1875			8	862
160, 855	Vavasseur, Josiah, Southwark, England. Method of attaching rings to projectiles.	Mar. 16, 1875	568	185	7	444
166, 665	Veber, Lucius O., Schuyler's Lake, N. Y. Wrench.	Aug. 10, 1875	457	140	8	271
171, 593	Veber, William F., Perrysburgh, Ohio, assignor to self and A. S. and H. G. Condit. } Windmill.	Dec. 28, 1875	924	{ 302 } { 303 }	8	1098
	Vedder, Nicholas S. (See Wells, Vedder & Heister.) (Design).					
	Same. (See Wolfe, Vedder & Ritchie.) (Design).					
8, 836	Vedder, Nicholas S., Troy, N. Y. Cooking-stove. (No. 1. Design).	Dec. 14, 1875			8	987
8, 337	Vedder, Nicholas S., Troy, N. Y., assignor to Comstock, Castle & Co., Quincy, Ill. Stove.	May 18, 1875			7	837
7, 966	Vedder, Nicholas S., Troy, and Tobias S. Heister, Lansingburgh, assignors to Nicholas S. Vedder, Troy, N. Y. Cooking-range.	Jan. 12, 1875			7	47
7, 997	Same. Franklin stove.	Jan. 12, 1875			7	47
7, 998	Same. Heating stove.	Jan. 23, 1875			7	48
7, 999	Same. Cooking-stove.	Jan. 12, 1875			7	48
8, 004	Vedder, Nicholas S., and Francis Ritchie, Troy, and Tobias S. Heister, Lansingburgh, assignors to Nicholas S. Vedder, Troy, N. Y. Cooking-stove. (Design).	Jan. 12, 1875			7	48
8, 005	Same. Base-burning stove.	Jan. 12, 1875			7	48
8, 006	Same. same.	Jan. 12, 1875			7	48
8, 012	Vedder, Nicholas S., and Francis Ritchie, assignors to Nicholas S. Vedder, Troy, N. Y. Parlor cooking-stove.	Jan. 19, 1875			7	93
8, 025	Same. Cooking-range. (Case A. Design).	Jan. 26, 1875			7	133
8, 026	Vedder, Nicholas S., and Francis Ritchie, Troy, and Tobias S. Heister, Lansingburgh, assignors to Nicholas S. Vedder, Troy, N. Y. Cooking-stove. (Case B. Design).	Jan. 26, 1875			7	133

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8,035	Vedder, Nicholas S., Troy, and Tobias S. Heister, assignors to Fuller, Warren & Co., Lansingburgh, N. Y. Cooking-stove..... (Design)...	Jan. 26, 1875			7	133
8,367	Vedder, Nicholas S., and Francis Ritchie, assignors to Swett, Quimby & Perry, Troy, N. Y. Cooking-range..... (Design)...	June 1, 1875			7	926
8,393	Vedder, Nicholas S., and Tobias S. Heister, Troy, N. Y., assignors to Charles Noble, M. D., Charles Noble, and Francis P. Nicholson, Philadelphia, Pa. Plate of ranges. (Design)...	June 15, 1875			7	1014
8,459	Vedder, Nicholas S., Troy, N. Y., assignor to Comstock, Castle & Co., Quincy, Ill. Stove..... (Design)...	July 6, 1875			8	4
8,837	Vedder, Nicholas S., Troy, and Tobias S. Heister, Lansingburgh, N. Y., assignors to said Vedder. Base-burning stove..... (No. 6. Design)...	Dec. 14, 1875			8	987
8,838	Same..... Cooking-range..... (No. 3. Design)...	Dec. 14, 1875			8	987
8,839	Same..... Illuminating base-burning stove..... (No. 7. Design)...	Dec. 14, 1875			8	988
8,840	Same..... Heating-stove..... (No. 9. Design)...	Dec. 14, 1875			8	988
8,841	Same..... same..... (No. 5. Design)...	Dec. 14, 1875			8	988
8,842	Same..... Cooking-stove..... (No. 2. Design)...	Dec. 14, 1875			8	988
8,843	Same..... Parlor-stove..... (No. 4. Design)...	Dec. 14, 1875			8	988
8,844	Vedder, Nicholas S., and Francis Ritchie, Troy, N. Y., assignors to said Vedder. Cooking-stove..... (No. 10. Design)...	Dec. 14, 1875			8	988
8,850	Vedder, Nicholas S., Troy, assignor to John A. Goavey, Albany, N. Y. Range. (Design)...	Dec. 14, 1875			8	988
8,851	Vedder, Nicholas S., and Tobias S. Heister, Lansingburgh, and Francis Ritchie, Troy, N. Y., assignors to said Vedder. Base-burning stove..... (No. 8. Design)...	Dec. 14, 1875			8	988
8,861	Vedder, Nicholas S., and Francis Ritchie, assignors to Sweet, Quimby & Perry, Troy, N. Y. Parlor-stove..... (Design)...	Dec. 21, 1875			8	1084
	Vegetable Felting Company. (See Riker, Carroll L., assignor.)					
166,828	Veilleux, Anselm, New Richmond, Wis. Bench-vise.....	Aug. 17, 1875	621	193	8	305
162,543	Velie, Henry C., assignor to Walter Adriance, Poughkeepsie, N. Y. Horse-rake.....	Oct. 5, 1875	207	68	8	593
161,183	Venners, Thomas R., and Richard Rowley, Cumberland, Md. Machine for rolling tapered bars.....	Mar. 23, 1875	871	285	7	493
160,130	Vera, Pedro, Bogota, United States of Colombia. Gas-engine.....	Feb. 23, 1875	859	284	7	323
159,622	Verbryck, Benjamin K., and Thomas Newberry, Chicago, Ill. Car-axle box.....	Feb. 9, 1875	359	119	7	242
163,425	Vergnes, Charles M., New York, N. Y., assignor of one-fourth interest to Clinton W. Sweet. Attachment to street-hydrants.....	May 18, 1875	669	214	7	858
161,916	Vergurson, Ezra L., Chicago, Ill. Gas-stove.....	Apr. 13, 1875	301	100	7	623
167,140	Vermillion, John W., Elkridge Landing, assignor to Charles E. Brown, Baltimore, Md. Slide-valve.....	Aug. 24, 1875	936	392	8	357
	Vermilye, William G. (See Bourd & Vermilye.)					
169,318	Vernon, George W., Bonsacks, Va. Lamp.....	Oct. 26, 1875	971	315	8	724
170,316	Vernon, Tinsley, Charleston, Mo. Superheater for steam-boilers.....	Nov. 23, 1875	987	309	8	888
	Very, Theodore S. (See Batchelder, Hazen J., assignor.)					
	Vesey, William B. (See Dunbrack & Vesey.)					
8,228	Vetter, Charles S., Philadelphia, Pa. Border for shirt-fronts, &c..... (Design)...	Mar. 23, 1875			7	466
166,488	Vetter, Joseph C., New York, N. Y. Induction-coil.....	Aug. 10, 1875	305	92	8	249
170,033	Vetterlein, John, Plainfield, N. J. Gate-latch.....	Nov. 16, 1875	701	221	8	842
171,451	Viall, James, John F. Townsend, and David W. Hill, Akron, Ohio. Truck.....	Dec. 21, 1875	770	254	8	1068
	Vice, Martin. (See Thornton & Vice.)					
	Victor Sewing Machine Company. (See Reese, Philip L., assignor.)..... (Reissue.)					
170,789	Victor, Sofie, New York, N. Y. Window-shutter.....	Dec. 7, 1875	122	39	8	966
170,921	Viehmeier, August, Saint Louis, Mo. Cooking-utensil.....	Dec. 7, 1875	234	80	8	982
159,780	Viele, Platt B., Rochester, N. Y. Folding bedstead.....	Feb. 16, 1875	526	175	7	270
160,246	Viets, Ellen B., Boston, Mass. Coat-shaper.....	Feb. 23, 1875	959	315	7	337
162,977	Same..... Apparatus for shaping pantaloons.....	May 4, 1875	227	73	7	777
163,617	Viets, Ellen B., and Charles B. Shaw, Boston, Mass. Apparatus for shaping pantaloons.....	May 25, 1875	868	273	7	891
	Vigneron, Charles. (See Mencke, Henry, assignor.)					
161,458	Vincent, George, Stockton, Cal. Gage quilter and corder.....	Mar. 30, 1875	1152	371	7	537
161,459	Same..... Guide attachment for sewing-machine pressure-feet.....	Mar. 30, 1875	1152	372	7	538
	Vincent, George H. (See West, True, assignor.)					
161,460	Vincent, John, sr., San Francisco, Cal. Ore-concentrator.....	Mar. 30, 1875	1153	372	7	538
170,650	Vincent, Mitchell, Saint Paul, Minn. Draw-bridge.....	Nov. 30, 1875	1313	415	8	940
170,133	Vine, David T., and Theodore J. Schuler, Fort Wayne, Ind. Ticket-case.....	Nov. 16, 1875	798	253	8	854
167,959	Vint, Robert, Brooklyn, N. Y. Heel for boots and shoes.....	Sept. 21, 1875	534	171	8	499
161,844	Vinton, Harlow S., Berrien Springs, Mich. Tire-upsetting machine.....	Apr. 6, 1875	225	75	7	601
160,367	Virgo, Charles, Bradford, Yorkshire, England, assignor to Arthur W. Carter, Newton, Mass. Index.....	Mar. 2, 1875	97	36	7	363
159,868	Virgo, Joseph R., Kalamazoo County, Mich. Sheep-holder for shearing.....	Feb. 16, 1875	607	201	7	280
165,894	Vogeding, H. Henry, Baltimore, Md. Vessel for removing foul water from docks, &c.....	July 20, 1875	751	230	8	136
	Vogeler, Charles A., et al. (See Pitt, William, assignor.)					
168,544	Vogler, Herman, Chicago, Ill. Trunk.....	Oct. 5, 1875	208	68	8	593
170,499	Voigt, Ferdinand, Jeffersonville, Ind. Water-wheel.....	Nov. 30, 1875	1172	370	8	921
160,799	Voigt, Frederick G., Kentish Town, England. Apparatus for the production of gas from hydrocarbon liquid.....	Mar. 16, 1875	526	169 170 171	7	438
168,300	Voigt, Hermann, Milwaukee, Wis. Apparatus for generating and washing carbonic-acid gas.....	Sept. 28, 1875	875	280	8	553
169,866	Voigt, Hermann, and Henry Eilmann, Milwaukee, Wis. Floor for refrigerator-buildings.....	Nov. 9, 1875	549	171	8	813
170,693	Voirin, Henri, Paris, France. Damping attachment for lithographic-presses.....	Dec. 7, 1875	37	11	8	955
169,387	Voisin, Jean A., and Pierre Dronier, Paris, France. Apparatus for lighting lamps by electricity.....	Nov. 2, 1875	63	19	8	743
168,945	Voit, Frederick, assignor to Feust & Rice, New York, N. Y. Cradle.....	Oct. 19, 1875	602	199	8	666
166,043	Volkland, William, Fond du Lac, Wis. Store-counter.....	July 27, 1875	904	279	8	169
	Voll, George. (See McGregor & Voll.)..... (Reissue.)					
168,946	Voltair, Alexander, New York, N. Y., and Charles E. Boll, assignors to James W. Carson, Philadelphia, Pa. Argand burner.....	Oct. 19, 1875	603	200	8	666
169,207	Voltz, Heinrich, Cincinnati, Ohio. Cigar-mold.....	Oct. 26, 1875	860	280	8	710
163,553	Vom Hofe, William, New York, N. Y. Bottle-stopper.....	May 18, 1875	793	251	7	874
167,141	Same..... same.....	Aug. 24, 1875	937	292	8	357
163,901	Von Auer, William, assignor to self and Richard T. Coombs, Brooklyn, N. Y. Swing-ing ship's berth.....	June 1, 1875	53	18	7	938
165,895	Von Behren, William H., Logansport, Ind. Spoke-tenoning machine.....	July 20, 1875	752	230	8	136
174,452	Von Culin, Matthew, Baltimore, Md. Cutting and punching press.....	Dec. 21, 1875	771	254	8	1068
166,952	Von Doehn, William, assignor to Culver, Page & Hoyne, Chicago, Ill. Paging and numbering machine.....	Aug. 24, 1875	754	234	8	332
164,615	Von Elsner, Hugo B. E., Saint Louis, Mo. Car-coupling.....	June 15, 1875	731	239	7	1049
	Von Nordhausen, Eugene, et al. (See Benac, Auguste, assignor.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
170, 134	Von Schlemmer, August, Hochheim-on-the-Main, Germany. Stirring apparatus for malt-kilns	Nov. 16, 1875	799	213	8	854
165, 896	Von Verson, Frederick, and John Bickel, Baltimore, Md. Paving-block	July 20, 1875	753	230	8	136
162, 720	Von Wesseley, Joseph R. (See Peyer, Johann, assignor.)					
168, 812	Voorhees, Philip R., Washington, D. C. Steering apparatus	Apr. 27, 1875	1074	342	7	735
	Same..... Toy spring-gun	Oct. 11, 1875	470	153	8	639
166, 164	Vose, Richard, administrator. (See Bullock, William.)					
159, 128	Vose, William T., Newton, Mass. Rose-sprinkler	July 27, 1875	1025	315	8	186
163, 953	Vote, Lewis, Pittsburgh, Pa. Car-coupling	Jan. 26, 1875	762	251	7	151
	Voith, Henry, Moberly, and Charles J. Hyatt, Saint Louis, Mo. Adjustable and reversible chair	June 1, 1875	95	32	7	944
159, 869	Vuillier, Aimé, Newark, N. J. Vegetable-slicer	Feb. 16, 1875	608	201	7	221
167, 809	Waas, Maurice A., assignor of one-half interest to Joseph F. Field, Philadelphia, Pa. Trunk-stay	Sept. 14, 1875	399	128	8	470
171, 200	Wachs, William, Covington, Ky. Baker and roaster	Dec. 14, 1875	524	173	8	1027
165, 277	Wackwitz, Ernest F., New York, N. Y. Hot-water heating apparatus	July 6, 1875	120	37	8	25
163, 283	Waddle, Uriah B., assignor of one-half interest to Stephen D. Saxby, Trenton, Mo. Feather-renovator	May 11, 1875	526	170 } 171 }	7	823
159, 053	Wade, Asel M., Lawrence, Mass. Bobbin-supporter for spooling-machines	Jan. 26, 1875	697	229	7	142
164, 059	Same..... Spindle for spinning-machines	June 1, 1875	193	70	7	957
165, 433	Same..... Lubricating-spindle	July 13, 1875	303	89	8	57
168, 666	Same..... Machine for spooling yarn	Sept. 21, 1875	649	206	8	514
	Wade, Charles A., et al. (See Murphy, Benjamin R., assignor.)					
	Wade, Dellamer. (See Pettit, Ethan H., assignor.)					
	Wade, James. (See Webster & Wade.)					
	Wade, Oscar. (See Vandegrift, Theodore F. and William, assignors.)					
160, 975	Wade, Seaton H., Chapel Hill, assignor of one-half interest to William J. Covington, Crystal Springs, Miss. Cotton-planting attachment to harrows	Mar. 16, 1875	673	220	7	458
162, 721	Wadhams, Edward F., Stamford, Conn., assignor of nine-tenths interest to Elon Foster, New York, N. Y. Fire-extinguisher	Apr. 27, 1875	1075	343	7	735
169, 208	Wadleigh, Andrew S., San Francisco, Cal. Socket-coupling	Oct. 26, 1875	861	281	8	710
160, 368	Wadsworth, Constant W., Peekskill, N. Y. Watch-case spring	Mar. 2, 1875	98	36	7	363
	Wadsworth, Henry C. (See Forehand & Sullivan.)					
	Same..... (See Forehand & Wadsworth.)					
166, 734	Wadsworth, Wilson S., Miami County, Kans. Plow	Aug. 17, 1875	543	167	8	292
170, 651	Waehner, Johann, assignor to Daniel Richter, New York, N. Y. Neck-tie fastener	Nov. 30, 1875	1314	415	8	940
	Wagen, Robert M. (See Potter, William J., assignor.)					
163, 120	Waggoner, Joseph B., Athens, Ill. Stirrup	May 11, 1875	373	121	7	803
161, 304	Waggoner, Samuel T., assignor to Adolphus Hageling and Charles Laukler, Buffalo, N. Y. Folding table	Mar. 23, 1875	991	324	7	508
162, 978	Waggoner, Samuel T., Cold Water, Mich., assignor to Frank C. Porter, Buffalo, N. Y. Folding table	May 4, 1875	228	73	7	777
165, 191	Waggoner, William, Creston, Iowa. Farm-gate	July 6, 1875	51	14	8	16
	Wagner, A.olph. (See Hantsche & Wagner.)					
166, 829	Wagner, Daniel A., Buchanan, Mich. Bronzing-machine	Aug. 17, 1875	621	193	8	305
171, 453	Wagner, Ernst L., Saint Louis, Mo. Brick-machine	Dec. 21, 1875	771	254 } 255 }	8	1068
165, 897	Wagner, Franz, and Samuel Rumpus, New York, N. Y. Shoal-indicator for vessels	July 20, 1875	754	231	8	136
164, 238	Wagner, Frederick E., Buffalo, N. Y. Curtain-cord holder	June 8, 1875	376	128	7	993
160, 066	Wagner, George, Washington, D. C. Ventilator for windows	Feb. 23, 1875	809	266	7	315
170, 608	Wagner, Henry G., Georgetown, D. C. Guard for screw-propellers	Nov. 30, 1875	1277	402	8	935
163, 902	Wagner, John, Utica, N. Y. Spring bed-bottom	June 1, 1875	54	18	7	938
	Wagner, John P. (See Dubroy & Wagner.)					
	Wagner, Kauper & Deremo. (See Kauper, Johan, assignor.)					
161, 364	Wagner, Louis, assignor to J. H. Hobbs, Brockunier & Co., Wheeling, W. Va. Glass sirup-pitcher	Mar. 30, 1875	1062	345	7	526
167, 862	Same..... Molasses-pitcher	Sept. 21, 1875	461	146	8	487
	Wagner, Theophilus. (See Schaeffer, Levi, assignor.)					
165, 138	Wagoner, Elijah, Westminster, Md. Feed-cutter	June 29, 1875	1234	397	7	1130
169, 209	Wagstaff, John C., assignor of one-fourth interest to Daniel Smith, New York, N. Y. Stirrup for riding-saddles	Oct. 26, 1875	862	281	8	710
	Wahl, Christian, et al. (See Hannahs, James M., assignor.)					
	Wahl, Louis, et al. (See Hannahs, James M., assignor.)					
158, 655	Wainwright, Charles B., Philadelphia, Pa. Game apparatus	Jan. 12, 1875	228	96	7	64
	Wait, Justin B. (See Scofield, Levi, assignor.)					
168, 688	Wait, Lorin A., Riceford, Minn. Clothes-drier	Oct. 11, 1875	360	118	8	624
158, 611	Waite, Charles H., Chicago, Ill. Letter-press map-printing	Jan. 12, 1875	244	82	7	58
	Waite, George L. (See Shain & Waite.)					
167, 368	Waite, George W., assignor to self, Edward P. Carpenter, and Horace M. Shortlidge, Philadelphia, Pa. Pipe-wrench	Aug. 31, 1875	1159	365	8	395
164, 348	Wakefield, Charles A., Pittsfield, Mass. Earth-closet	June 8, 1875	485	160	7	1007
164, 060	Wakefield, John E., assignor to Edw. W. Vaill, Worcester, Mass. Folding chair	June 1, 1875	194	70	7	957
169, 748	Same..... same	Nov. 9, 1875	432	137	8	799
	Walbridge, E. K. (See McDonough, Thomas, assignor.)					
169, 210	Walbridge, Henry B., Brooklyn, N. Y. Window-screen	Oct. 26, 1875	862	281	8	710
170, 034	Same..... same	Nov. 16, 1875	702	222	8	842
	Waldo, Pharez G. (See Reily & Waldo.)					
170, 317	Waldron, John, New Bedford, Mass. Implement for sifting coal-ashes	Nov. 23, 1875	988	310	8	888
	Wales, Elisha L. (See Prusha & Wales.) (Reissue.)					
160, 369	Wales, John H., Milford, Mass. Toy arrow-shooter	Mar. 2, 1875	99	36	7	363
	Wales, Sigourney. (See Furness & Wales.)					
167, 041	Wales, Sigourney, New York, assignor of one-half interest to Nathaniel H. Furness, Tarrytown, N. Y. Lever-buckle	Aug. 24, 1875	838	261	8	343
167, 282	Same..... Buckle	Aug. 31, 1875	1080	337	8	384
160, 733	Walker, Alexander, Mornington, assignor of one-half interest to George Sutherland, Listowell, Canada	Mar. 9, 1875	440	146	7	420
158, 548	Walker, Benjamin L., Sing Sing, N. Y. Wrench	Jan. 5, 1875	171	58	7	33
160, 801	Walker, David, Newark, N. J. Office table and bed combined	Mar. 16, 1875	528	171	7	438
	Walker, Edward K. (See O'Donnell & Walker.)					
6, 453	Walker, Edwin R., assignor to Elliott P. Gleason, New York, N. Y. Argand gas-burner. (Reissue.)	May 25, 1875	1063	336	7	917
	Walker, George. (See Kenny, Charles, assignor.)					
168, 813	Walker, George E., Reynolds, Ga. Shell for ordnance	Oct. 11, 1875	472	153	8	639
8, 792	Walker, George W., Malden, Mass. Steam-radiator pipe (Design)	Nov. 9, 1875			8	777
160, 856	Walker, George W., Boston, Mass. Parlor-grate	Mar. 16, 1875	539	185	7	414

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 857	Walker, George W., Malden, Mass. Kettle for heating or cooking by steam.	Mar. 16, 1875	570	186	7	444
161, 365	Same. Portable range.	Mar. 30, 1875	1063	346	7	526
168, 198	Walker, George W., Malden, and Miles Pratt, Watertown, Mass. Sectional steam-generator.	Sept. 28, 1875	787	250	8	541
168, 067	Walker, Hugh L., Guelph, Canada. Sewing-machine shuttle.	Sept. 21, 1875	651	206	8	514
160, 488	Walker, James, Cincinnati, Ohio. Spring-vehicle.	Mar. 2, 1875	209	72	7	379
161, 366	Same. Thill-coupling.	Mar. 30, 1875	1063	346	7	526
162, 591	Walker, James, New York, N. Y. Grain-distributor.	Apr. 27, 1875	947	304	7	720
163, 554	Walker, James T., Albany, N. Y. Roll for rolling horseshoe-blanks.	May 18, 1875	794	251	7	874
163, 555	Same. Horseshoe-blank.	May 18, 1875	795	252	7	874
168, 068	Same. Horseshoe.	Sept. 21, 1875	652	207	8	514
170, 609	Same. Horseshoe-blank.	Nov. 30, 1875	1278	403	8	935
164, 886	Walker, Jesse, Vincennes, Ind. Railway-switch.	June 22, 1875	996	321	7	1091
167, 042	Walker, John, Sonora, Cal. Stamp-mill feeder.	Aug. 24, 1875	838	262	8	343
	Walker, Peter. (See Smith & Walker.)					
	Same. (See Smith, Ira O., assignor.) (Reissue.)					
168, 302	Walker, Robert, Oakland, assignor of one-half interest to George W. Henshaw, Gridley, Cal. Vehicle-spring.	Sept. 28, 1875	877	280	8	553
160, 800	Walker, Robert L., Boston, Mass. Stench-trap.	Mar. 16, 1875	528	171	7	438
167, 418	Walker, Samuel S., Crompton, R. I. Take-up pawl for looms.	Sept. 7, 1875	36	10	8	411
169, 749	Same. Loom-temple.	Nov. 9, 1875	432	137	8	799
	Walker, Thomas. (See Bancroft & Walker.)					
162, 979	Walker, Thomas, Pleasantville, Md. Sash-holder.	May 4, 1875	229	74	7	777
163, 618	Walker, Thomas, Philadelphia, Pa. Safety-valve.	May 25, 1875	869	273	7	891
168, 301	Walker, Thomas C., Morristown, Ohio. Boot-shank spring.	Sept. 28, 1875	876	260	8	553
163, 121	Walker, Wesley W., Brattleborough, Vt. Organ reed-board.	May 11, 1875	373	121	7	804
6, 635	Walker, William, Brooklyn, N. Y., assignor to George H. Wooster. Plaiting attachment for sewing-machines.	Sept. 7, 1875	202	63	8	434
6, 704	Same. Plaiting device.	Oct. 19, 1875	729	240	8	683
165, 634	Walker, William, West Liberty, Iowa. Windmill.	July 13, 1875	491	150	8	85
169, 750	Walker, William C., Glasgow, Ky. Seed planter and drill.	Nov. 9, 1875	433	137	8	799
167, 482	Walker, William H., Charleston, S. C. Square.	Sept. 7, 1875	87	28	8	419
167, 960	Same. Bale-tie.	Sept. 21, 1875	535	171	8	499
168, 593	Walker, William L., and Benjamin G. Devoe, Kenton, Iowa. Clamp.	Oct. 11, 1875	276	90	8	610
	Walker, William W., et al. (See Hawkins, John L., assignor.)					
163, 903	Wall, Adam S., Graniteville, Cal. Slow-match for lighting fuses.	June 1, 1875	55	19	7	938
164, 617	Wall, John C., and Cola Ludington, Washington, D. C. Shirt-collar.	June 15, 1875	732	239	7	1049
164, 349	Wall, Jonathan, Wilmington, Ohio. Bridge-truss.	June 8, 1875	486	160	7	1007
164, 350	Wall, Thomas H., New Bedford, Mass. Bench-plane.	June 8, 1875	487	160	7	1007
	Wallace & Sons. (See Vandercook, Frank E., assignor.)					
162, 325	Wallace, James C., Pittsburgh, Pa. Crucible-mold.	Apr. 20, 1875	679	221	7	678
168, 594	Wallace, John, Chicago, Ill. Hoisting machine.	Oct. 11, 1875	277	90	8	611
162, 592	Wallace, John S., Philadelphia, Pa. Sash-fastener.	Apr. 27, 1875	948	305	7	720
171, 071	Wallace, John S., Bretland, Ohio. Valve-indicator.	Dec. 14, 1875	393	130	8	1010
169, 857	Wallace, Peter, London Township, Canada. Machine for making matches.	Nov. 9, 1875	549	171	8	813
	Wallace, Samuel J. (See Andrus & Wallace.)					
170, 212	Wallace, Samuel J., Keokuk, Iowa. Geographical clock.	Nov. 23, 1875	895	280	8	874
161, 367	Wallace, Thomas, Chicago, and George W. Hyde, Joliet, Ill. Machine for hulling and cleaning grain.	Mar. 30, 1875	1065	346	7	526
161, 368	Wallace, Thomas, Chicago, Ill. Grain-scourer.	Mar. 30, 1875	1066	346	7	526
170, 610	Wallace, Wesley W., Nechesville, Tex. Cotton-press.	Nov. 30, 1875	1278	403	8	935
161, 580	Wallace, William S., assignor to Willis D. Green, Mount Vernon, Ill. Brick-machine.	Mar. 30, 1875	1272	409	7	553
8, 763	Wallach, Willy, New York, N. Y. Cover of autograph-albums. (Design.)	Oct. 26, 1875			8	689
162, 509	Same. Paper box.	Apr. 27, 1875	880	281	7	711
163, 825	Wallick, Washington, Philadelphia, Pa. Apparatus for enameling moldings.	May 25, 1875	1039	329	7	914
161, 461	Walling, John Z., Red Wing, Minn. Apparatus for breaking horses.	Mar. 30, 1875	1154	372	7	538
162, 436	Wallis, George E., assignor of one-half interest to Searle & Dynes, Owatonna, Minn. Hot-air furnace.	Apr. 20, 1875	789	256	7	691
159, 724	Wallis, John N., Auburn, N. Y., and Frank M. Harbach, Wilkesbarre, Pa., assignors of one-third interest to William H. Burnham. Inkstand-cover.	Feb. 9, 1875	454	152	7	255
169, 751	Wallis, John N., Fleming, and Theodore Wallis, Scipio, assignors to selves and James A. Moore, Auburn, N. Y. Monument. (Design.)	Nov. 9, 1875	434	137	8	799
8, 745	Wallis, Samuel, Newton, Mass. Knitted skirt.	Oct. 19, 1875			8	645
	Wallis, Theodore. (See Wallis, John N. and Theodore.)					
164, 784	Wallis, Theodore, Scipio, and Oscar J. Case, Auburn, N. Y. Plow-colter cleaner.	June 22, 1875	896	292	7	1079
165, 458	Walrath, Alphonso, Fort Plain, assignor to E. D. Bronson & Co., Amsterdam, N. Y. Broom-corn-sizing machine.	July 13, 1875	328	96	8	60
168, 814	Walrath, Alphonso, and Edward D. Bronson, Amsterdam, N. Y. Broom-winding machine.	Oct. 11, 1875	473	154	8	639
167, 205	Walser, Charles J., Lancaster, Pa. Vehicle.	Aug. 31, 1875	1016	316	8	375
160, 858	Walsh, John, and James Dutot, Newton, Iowa. Machine for shearing metal.	Mar. 16, 1875	571	186	7	444
171, 072	Walsh, Maurice, Sillery Cove, and Maurice Ahearn, Ottawa, Canada. Bread-cutter.	Dec. 14, 1875	393	130	8	1010
6, 559	Walsh, Maurice J., New York, N. Y. Cotton-jack. (Reissue.)	July 27, 1875	1044	321	8	188
169, 319	Same. Jack for pressing, stowing, &c.	Oct. 26, 1875	972	315	8	724
170, 419	Same. Hydraulic jack.	Nov. 23, 1875	1081	341	8	900
167, 591	Walsh, Patrick H., Waterbury, Conn. Stone-polishing machine.	Sept. 7, 1875	188	58, 59	8	432
168, 815	Walsh, Robert F., Philadelphia, Pa. Curry-comb.	Oct. 11, 1875	474	155	8	639
	Walsh, Thaddeus, et al. (See Broas, Richard M. C., assignor.)					
162, 873	Walsh, Thomas J., Brownsville, Pa. Steam-engine governor.	May 4, 1875	124	41	7	763
160, 370	Walsh, William, Albany, N. Y. Stove-grate.	Mar. 2, 1875	99	36	7	363
168, 303	Walter, Bernhard C., Kirkwood, Mo. Thill-coupling.	Sept. 28, 1875	878	281	8	553
159, 369	Walter, Horace E., Richfield Springs, N. Y. Electric burglar-alarm.	Feb. 2, 1875	115	39	7	200
162, 437	Walter, James E., Baltimore, Md. Self-raising seat for water-closets.	Apr. 20, 1875	790	257	7	691
161, 184	Walter, Rudolph L., assignor to William A. de Caidry, Washington, D. C. Shell-fuse.	Mar. 23, 1875	871	286	7	493
160, 371	Walter, Thomas C., San Francisco, Cal. Fruit-drier.	Mar. 2, 1875	100	37	7	363
161, 305	Walter, Thomas F., Philadelphia, Pa. Stair-pad.	Mar. 2, 1875	991	324	7	509
167, 369	Same. Pillow-case frame.	Aug. 31, 1875	1160	365	8	395
161, 079	Walter, William, Derry Station, Pa. Water-elevator.	Mar. 23, 1875	774	255	7	481
164, 887	Walter, William, Latrobe, Pa. Water-elevator.	June 22, 1875	997	322	7	1091
166, 666	Walter, William P., Philadelphia, Pa. Cornice-tool.	Aug. 10, 1875	457	140	8	272
159, 484	Walters, Almern B., and Charles Saunders, Philadelphia, Pa. Cutting and polishing machine.	Feb. 2, 1875	230	75	7	216

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159, 233	Walters, Charles D. (See Patton & Walters.)					
159, 483	Walters, Charles D., assignor to William A. Middleton and H. L. Bowers, Harrisburgh, Pa. Cellar-hoist or elevator	Jan. 26, 1875	860	230	7	164
	Walters, Edmund, assignor of one-half interest to Henry Walters, Tamaqua, Pa. Relief-valve for cylinders	Feb. 2, 1875	229	74	7	216
165, 633	Walters, Henry. (See Walters, Edmund, assignor.) Walther, Daniel, Reading, Pa. Molding instrument	July 13, 1875	490	149	8	85
	Walton Brothers. (See Houston, George P., assignor.) Same. (See Ober, Franklin S., assignor.) Same. (See Peake, James B., assignor.) Same. (See Trenchard, Stephen D., assignor.)					
168, 118	Walton, Elias H., and Michael Hemler, Cincinnati, Ohio. Safe-door	Sept. 28, 1875	712	225	8	530
167, 283	Walton, Frederick, Staines, Great Britain, assignor to American Linoleum Manufacturing Company, New York, N. Y. Block-printing machine	Aug. 31, 1875	1081	{ 338 339 340 }	8	384
168, 199	Same. Machine for making plastic floor-cloth	Sept. 28, 1875	788	{ 250 251 }	8	541
164, 351	Walton, George, and William E. Merrill, Cincinnati, Ohio. Signal-lantern	June 8, 1875	487	161	7	1001
165, 457	Walton, James, Boston, assignor of one-half interest to Henry F. Rich, Haverhill, Mass. Folding table	July 13, 1875	328	96	8	60
159, 129	Walton, John E. (See Cole, Thomas Z., assignor.) Walton, Jonathan, Brooklyn, N. Y. Alarm-lock	Jan. 26, 1875	763	251	7	151
8, 692	Walton, Joseph J. (See Frazee, Lawrence F., assignor.) Same. (See Walton, William M. and Joseph J.)					
168, 434	Walton, William A., assignor to the Weybosset Mills, Providence, R. I. Fancy cassimere (Design)	Oct. 5, 1875			8	561
	Walton, William M. and Joseph J., New York, N. Y. Signal head-light for vessels	Oct. 5, 1875	100	35	8	579
158, 612	Walworth, Caleb C. (See Houghton, Edward C., assignor.)					
164, 700	Same. (See Knights, John H., assignor.)					
166, 735	Walworth, Caleb C., Boston, Mass. Steam-heat radiator	Jan. 12, 1875	245	83	7	58
	Same. Application of steam-pipes to buildings	June 22, 1875	824	269	7	1070
	Same. Connecting steam, gas, or water pipes	Aug. 17, 1875	544	167	8	293
159, 623	Walworth, James J., trustee. (See Ryder, Henry, assignor.) (Reissue.)					
162, 722	Wampach, John, Shakopee, Minn. Bob sled	Feb. 9, 1875	360	119	7	242
161, 306	Wands, John C., Nashville, Tenn. Metallic roof	Apr. 27, 1875	1082	343	7	736
169, 380	Wannack, Augustus. (See Liecke, Charles A., assignor.) (Reissue.)					
164, 618	Wanner, Albert and Charles A., New York, N. Y. Watch-key	Mar. 23, 1875	992	324	7	509
	Wanner, Charles A. (See Wanner, Albert and Charles A.)					
169, 380	Wanner, Joseph, assignor of one-third interest to Ernst Hurst, Syracuse, N. Y. Table-leaf support	Nov. 2, 1875	64	19	8	743
164, 618	Wannick, Friedrich, and Hermann Koeppner, Brünn, Austro-Hungarian Empire. Valve-gear	June 15, 1875	733	{ 339 340 }	7	1049
168, 689	Wausbrough, Edmund, assignor to Alexander Speer & Sons, Pittsburgh, Pa. Machine for shaping agricultural implements	Oct. 11, 1875	360	118	8	624
165, 278	Wanstall, John, Washington, D. C. Horseshoe	July 6, 1875	120	37	8	25
169, 868	Want, Edwin, New Haven, Conn. Eyeglass	Nov. 9, 1875	551	172	8	813
171, 251	Wantzer, Rich. M. (See McCune, Joseph B., assignor.)					
168, 947	Wanzer, Isaac H., Elgin, Ill. Milk-cooler	Dec. 21, 1875	594	195	8	1045
170, 611	Waples, William T. (See Watson, John, assignor.)					
	Ward, Charles, Boston, Mass. Fireman's ladder	Oct. 19, 1875	603	200	8	666
	Ward, Charles E. (See Lawrence & Ward.)					
	Ward, Frank O., assignor of one-half interest to Lewis Murr, Philadelphia, Pa. Boot and shoe	Nov. 30, 1875	1279	403	8	935
	Ward, George M. (See Brady & Ward.)					
	Ward, Miron A. (See Jacobi, Louis, assignor.)					
	Ward, Thomas H., et al. (See Johnson, John, assignor.)					
	Ward, William. (See Garton, William J., assignor.)					
	Ward, William C. (See Henkel & Ward.)					
171, 493	Ward, William E., Port Chester, N. Y. Machine for dressing the heads and pointing and threading the shanks of bolts	Dec. 28, 1875	828	{ 272 273 }	8	1084
162, 980	Ward, William H., Virginia, Mo. Hame-fastening	May 4, 1875	230	74	7	777
167, 043	Ward, William H., Auburn, N. Y. Car-coupling	Aug. 24, 1875	839	262	8	343
167, 044	Same. Friction power-brake	Aug. 24, 1875	841	262	8	344
169, 869	Ward, William S., assignor to H. D. Smith & Co., Plantsville, Conn. Die for forging saddle-clips	Nov. 9, 1875	551	172	8	813
160, 372	Warden, Americus, et al. (See Hollis, John W., assignor.) (Reissue.)					
166, 953	Warder, William, et al. (See Cochrane, William F., assignor.)					
163, 284	Wardwell, Charles P. S., Lake Village, N. H. Planing-machine	Mar. 2, 1875	101	37	7	363
164, 061	Same. Wire-straightening machine	Aug. 24, 1875	757	234	8	332
167, 142	Wardwell, Simon W., jr., assignor to self and George W. Shaw, Saint Louis, Mo. Treadle	May 11, 1875	528	171	7	823
163, 826	Ware, John A., assignor to Edw. W. Vaill, Worcester, Mass. Folding chair	June 1, 1875	195	70	7	957
	Ware, John M. (See Lockwood & Ware.)					
	Ware, Preston J., Boston, Mass. Process of currying calf-skins	Aug. 24, 1875	938		8	357
	Warfield, Oliver D., assignor of one-half interest to John Anderton, Chicopee Falls, Mass. Lamp-chimney	May 25, 1875	1040	330	7	914
165, 635	Warfield, Oliver D., assignor to self and George D. Bartlett, Chicopee, Mass. Watch-key combination-tool	July 13, 1875	492	150	8	85
6, 705	Waring, John B., assignor to Waring Rock Drill Company, New York, N. Y. Tripod for rock-drilling machines	Oct. 19, 1875	731	241	8	683
169, 389	Same. same	Nov. 2, 1875	65	19	8	743
165, 770	Waring, Michael L., assignor to self and Corydon B. Palmer, Detroit, Mich. Steam-engine lubricator	July 20, 1875	625	192	8	119
	Waring Rock Drill Company. (See Waring, John B., assignor.) (Reissue.)					
159, 054	Same. same					
165, 391	Warker, Thomas, New York, N. Y. Apparatus for drawing effervescent liquids	Jan. 26, 1875	698	230	7	142
	Same. Apparatus for dispensing effervescent liquids	July 6, 1875	239	72	8	41
165, 279	Ware, Justin A., administrator. (See Bullough, James.)					
	Warmington, James, and John Forrester, Chicago, Ill. Grate	July 6, 1875	121	37	8	25
170, 420	Warner, Almon. (See Hyman, John, assignor.) Warner, Amos S., et al. (See Talbot Clarke, Charles, assignor.)					
	Warner, Arthur, London, England. Refining cast iron	Nov. 23, 1875	1081		8	901
	Warner & Co., William R. (See Warner, William R., assignor.) (Design.)					
158, 415	Warner, Bishop J. (See Rocco & Warner.)					
166, 165	Warner, Henry W., Greenfield, Mass. Axle for children's carriages	Jan. 19, 1875	448	149	7	102
	Same. Vehicle-top	July 27, 1875	1025	316	8	186

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168, 304	Warner, Ira D., Cortlandville, N. Y. Corset	Sept. 28, 1875	878	281	8	554
166, 235	Warner, James, Philadelphia, Pa. Water-tube boiler.....	Aug. 3, 1875	45	15	8	205
158, 550	Warner, Jesse F., Dakota City, Nebr. Seed-planter	Jan. 5, 1875	172	59	7	33
167, 284	Warner, Leman A., Freeport, Ill. Door-spring	Aug. 31, 1875	1084	340	8	385
162, 781	Warner, Oliver S., Akron, Ohio, assignor of one-half interest to Alexander M. Van Lier, Brooklyn, N. Y. Device for applying poisonous compounds to plants for destroying insects	May 4, 1875	42	13	7	752
158, 549	Warner, Peter, Gilead, Mich. Grain-separator	Jan. 5, 1875	172	58, 59	7	33
8, 670	Warner, William R., assignor to William R. Warner & Co., Philadelphia, Pa. Drug-gist's shop-bottle	Sept. 28, 1875			8	521
8, 671	Same..... same..... (Case B. Design)	Sept. 28, 1875			8	521
	Warner, William Y. (See Howson, Henry, assignor.)					
	Warner, Worcester R. (See Swasey, Ambrose, assignor.)					
	Warner, Wyllis H. (See Bates, Edward P., assignor.)					
167, 483	Warnock, David, Percival, Iowa. Washing-machine.....	Sept. 7, 1875	88	28	8	419
167, 961	Warren, Aaron R., Lawrence, Mass. Suspender	Sept. 21, 1875	535	172	8	499
159, 291	Warren, Andrew, Waltham, Mass. Stocking and skirt holder.....	Feb. 2, 1875	44	16	8	191
	Warren, Andrew J. (See Batchelor & Warren.)					
159, 987	Warren, Benjamin F., Fishkill, N. Y., assignor of one-half interest to Daniel W. Warren, Newark, N. J. Differential pulley-block	Feb. 16, 1875	716	238	7	295
169, 390	Warren, Charles, Shoburn, England. Stove	Nov. 2, 1875	66	20	8	743
160, 247	Warren, Charles A., Watertown, Conn. Body for floral decorations.....	Feb. 23, 1875	960	315	7	337
162, 723	Warren, Charles H., Toledo, Ohio. Rotary churn	Apr. 27, 1875	1083	343	7	736
	Warren, Daniel W. (See Warren, Benjamin F., assignor.)					
163, 285	Warren, Edmond A., Brooklyn, N. Y. Device for lubricating and preventing the heating of car-axle boxes	May 11, 1875	529	171	7	824
159, 725	Warren, George E., Wolcott, Vt. Stencil-plate	Feb. 9, 1875	455	152	7	256
163, 556	Warren, Henry J., Lexington, Mass. Lamp-extinguisher	May 18, 1875	795	252	7	874
169, 604	Warren, Henry J., Lexington, and Henry F. Packard, Brockton, assignors to Lorin A. Presby and Charles and Jonathan Swift, Boston, Mass. Lamp-extinguisher	Nov. 2, 1875	264	85	8	770
163, 954	Warren, John E., Westbrook, Me. Fence-post	June 1, 1875	96	33	7	941
165, 192	Warren, John S., Wilmington, Del. Paper-pulp screen	July 6, 1875	51	15	8	16
	Warren, Josiah, et al. (See Tyler, Hiram, assignor.)					
169, 870	Warren, Oscar F., Knowlesville, N. Y. Potato-digger.....	Nov. 9, 1875	552	173	8	813
168, 816	Warren, Silas L., Chicago, Ill. Stove-platform	Oct. 11, 1875	475	155	8	639
8, 650	Warren, Walter P., assignor to Fuller, Warren & Co., Troy, N. Y. Gridiron. (Design) ..	Sept. 14, 1875			8	439
	Warren, William C. (See Hilliker, Henry, assignor.)					
169, 320	Warrington, Joseph H., Camden, N. J., assignor of one-half interest to William J. Flanagan, Philadelphia, Pa. Annealing metals.....	Oct. 26, 1875	973	315	8	724
6, 238	Warth, Albin, Stapleton, N. Y. Machine for cutting cloth..... (Reissue) ..	Jan. 19, 1875	639	212	7	127
159, 988	Same..... Machine for piling textile materials	Feb. 16, 1875	718	{ 238 239 }	7	295
165, 636	Same..... Cloth-cutting machine.....	July 13, 1875	493	{ 150 151 }	8	85
169, 066	Same..... Implement for notching patterns for garments	Oct. 19, 1875	717	236	8	681
169, 212	Warwick, Richard, Williamsburgh, N. Y. Composition for cement.....	Oct. 26, 1875	864		8	710
161, 185	Washburn, Cadwallader C., Madison, Wis. Machine for crushing grain.....	Mar. 23, 1875	872	286	7	493
	Washburn, C. F. (See Pinney & Hasty, assignors.)					
	Washburn, Gratiot. (See Lasserre, Antoine G., assignor.)					
167, 143	Washburn, Milo E., Indian Lake, N. Y. Turbine water-wheel.....	Aug. 24, 1875	939	{ 292 293 }	8	357
168, 858	Washburne, Pliny E., assignor of one-half interest to Charles A. Babcock, Buffalo, N. Y. Stove-door knob.....	Oct. 19, 1875	523	171	8	654
	Washeim, Charles, et al. (See Ludwig, John C., assignor.)					
	Washington Mills. (See Jewell, Aaron, assignor.)					
	Wasserman, Benoit. (See Garcia, José, assignor.)					
160, 976	Waste, Charles, Galesburgh, Ill. Hay-press	Mar. 16, 1875	674	220	7	459
169, 752	Waste, Frederick H., Philadelphia, Pa. Convertible chair.....	Nov. 9, 1875	435	138	8	799
	Waterbury Buckle Company. (See Smith, Dwight L., assignor.)					
	Waterbury Button Company. (See Goodwin, Charles H., assignor.)					
	Same..... (See Smith, Joseph R., assignor.)					
161, 718	Waterbury, Charles G., New York, N. Y. Track-clearer.....	Apr. 6, 1875	107	38	7	584
162, 593	Waterbury, Milan, assignor to self and William H. Betts, Mason City, Iowa. Lamp-extinguisher	Apr. 27, 1875	949	305	7	720
163, 343	Waterman, Albert and Elias, Rutland, Wis. Lamp-extinguisher.....	May 18, 1875	602	102	7	849
	Waterman & Mayer, et al. (See Waterman, Julius, assignor.)					
	Waterman & Mayer. (See Olmstead, Chauncey L., assignor.)					
	Waterman, Elias. (See Waterman, Albert and Elias.)					
160, 067	Waterman, Jonathan W., Oregon, Wis. Lamp-extinguisher	Feb. 23, 1875	810	266	7	315
108, 305	Same..... Teeth for thrashing-machines.....	Sept. 28, 1875	879	281	8	554
164, 619	Waterman, Joseph S., Boston, Mass. Burial-casket case.....	June 15, 1875	734	240	7	1049
164, 239	Waterman, Julius, assignor to Waterman & Mayer, New York, N. Y., and Chauncey L. Olmstead, West Brookfield, Mass. Corsets	June 8, 1875	376	128	7	993
6, 625	Waters, Charles H., Groton, assignor to Clinton Wire Cloth Company, Clinton, Mass. Machine for painting wire-cloth..... (Reissue) ..	Aug. 31, 1875	1175	370	8	398
6, 626	Same..... Painting wire-cloth..... (Reissue) ..	Aug. 31, 1875	1176		8	398
	Waters, David J. (See Churchill, Robert W., assignor.)					
6, 627	Waters, Elisha, Troy, N. Y. Paper vessel..... (Reissue) ..	Aug. 31, 1875	1176	370	8	398
160, 979	Waters, Horatio N., West Meriden, Conn. Feed-water heater for steam-boilers.....	Mar. 16, 1875	677	222	7	459
163, 705	Waters, Jabez M., Cincinnati, Ohio. Tilting chair.....	May 25, 1875	937	298	7	900
	Waters, James. (See Crittenden & Waters.)					
	Waters, James T. (See Reford, Joseph W., assignor.)					
164, 352	Waters, Zachariah D., Brookville, Md. Horse-power	June 8, 1875	489	161	7	1007
167, 285	Watkeys, Henry, Syracuse, N. Y. Adjustable trigger for fire-arms.....	Aug. 31, 1875	1084	341	8	385
	Watkins, Albert H. (See B own & Watkins.)					
165, 042	Watkins, Albert H., Boston, Mass. Reservoir for street-lanterns	June 29, 1875	1148	370	7	1119
168, 306	Watkins, Edmund G., assignor to James B. Watkins, Georgetown, Cal. Bed-bug trap...	Sept. 28, 1875	880	281	8	554
160, 667	Watkins, Frank, New York, N. Y. Vessel for measuring ice-cream, &c	Aug. 10, 1875	458	141	8	272
	Watkins, James B. (See Watkins, Edmund G., assignor.)					
	Watkins, James T. (See McCall, Watkins & Scott.)					
163, 955	Watkins, William, and Hiram B. Scutt, Joliet, Ill. Barbed-wire fence	June 1, 1875	97	33	7	944
168, 200	Watkins, William S., Saint Louis, Mo. Combined burglar-alarm and door-fastener.....	Sept. 28, 1875	790	251	8	541
169, 391	Same..... Horse and water power apparatus.....	Nov. 2, 1875	67	20	8	743
8, 810	Watkinson, George, assignor to L. Candee & Co., New Haven, Conn. Overshoe. (Design) ..	Nov. 23, 1875			8	802

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161, 307	Watson, Baron C., assignor of one-half interest to Leon Furniss, New York, N. Y. Breech-loading fire-arm	Mar. 23, 1875	992	325	7	509
161, 308	Same..... Breech-loading ordnance	Mar. 23, 1875	994	325	7	509
162, 594	Watson, Calvin A., New York, N. Y. Nursery-chair	Apr. 27, 1875	950	305	7	720
165, 771	Watson, Charles H. (See Flye & Watson.)					
163, 286	Watson, Eliphalet, Northwood Centre, N. H. Metallic roof	July 20, 1875	626	192	8	119
171, 331	Watson, Henry W., New York, N. Y. Coffee-pot	May 11, 1875	531	171	7	824
159, 485	Watson, James, Port Colborne, Canada. Churn	Dec. 21, 1875	662	218	8	1053
165, 898	Watson, Jeremiah M., Sharon, Mass. Shank-stiffener for boots, &c.	Feb. 2, 1875	230	75	7	216
170, 135	Same..... Stove-polish	July 20, 1875	755		8	137
168, 069	Same..... Machine for cutting shank-stiffeners for boots and shoes	Nov. 16, 1875	801	253	8	855
169, 871	Watson, John, Williamsport, assignor to William T. Waples, Philadelphia, Pa. Ironing-board	Sept. 21, 1875	653	207	8	514
164, 620	Watson, John, Trenton, N. J. Clay-press	Nov. 9, 1875	553	173	8	814
165, 899	Watson, John A., Lexington, Miss. Portable lighter	June 15, 1875	735	240	7	1049
	Same..... Baking-stand	July 20, 1875	756	231	8	137
169, 605	Watson, Jonathan, et al. (See Allen, Hosea, assignor.)					
	Watson, Joseph. (See De Huff, John L., assignor.)					
	Watson, Joseph, Everett, and John L. De Huff, Woburn, Mass.; said De Huff assignor to said Watson. Oscillating printing-press	Nov. 2, 1875	265	86, 87	8	770
161, 581	Watson, Lewis H., Cleveland, Ohio. Forge-blower	Mar. 30, 1875	1273	409	7	553
158, 656	Watson, Richard D., Findley, Ohio. Car-replacer	Jan. 12, 1875	289	97	7	64
163, 035	Watson, Richard H., Philadelphia, Pa. Gas-fixture for lighting vaults	May 11, 1875	299	96	7	793
168, 690	Watson, Robert C., Maysville, Ohio. Nut-fastening	Oct. 11, 1875	361	118	8	624
	Watson, Samuel. (See Ogborn, Harrison, assignor.)					
169, 067	Watson, Thomas, and Robert Kelso, Philadelphia, Pa. Invalid-bedstead	Oct. 19, 1875	718	237	8	681
170, 035	Watson, Thomas A., Bentonville, Ark. Car-coupling	Nov. 16, 1875	703	222	8	842
158, 763	Watson, Walter S., Boston, Mass. Nail-driving machine	Jan. 12, 1875	374	128	7	76
170, 313	Watson, Walter S., and Albion Knowlton, Boston, Mass. Fare-register	Nov. 23, 1875	988	310	8	888
158, 657	Watson, William M., Tonica, Ill. Roll for welding plow-irons	Jan. 12, 1875	290	97	7	64
164, 621	Same..... same	June 15, 1875	735	{ 240 } 241	7	1049
169, 213	Same..... Die for upsetting the ends of plow-shares and blanks therefor	Oct. 26, 1875	865	282	8	710
160, 131	Watson, William O., Albany, Ga. Lever-press	Feb. 23, 1875	860	284	7	323
165, 637	Watson, William R., and Robert A. Robertson, Glasgow, Scotland. Apparatus for filtering saccharine solutions	July 13, 1875	495	151	8	85
	Watt, David M., et al. (See Kinzer, Jacob, assignor.)					
	Watt, William. (See Reford, Joseph W., assignor.)					
	Watt, William, jr. (See Reford, Joseph W., assignor.)					
168, 358	Watterson, Arthur R., San Francisco, Cal. Mortising-chisel	Oct. 5, 1875	34	13	8	569
166, 909	Wattles, Joseph W., Canton Mass. Ring for spinning-frames	Aug. 17, 1875	700	217	8	315
168, 435	Same..... Composition for sizing yarn	Oct. 5, 1875	100		8	579
164, 062	Wattles, Thomas B. (See Blanding, Francis, assignor.)					
	Wattles, Thomas B., Canton, Mass. Bobbin for spinning-machines	June 1, 1875	195	70	7	957
161, 917	Watts, James M. (See Finley, James R., assignor.)					
166, 908	Watts, Joseph E., Lawrence, Mass. Steam or water pressure regulator	Apr. 13, 1875	301	101	7	623
162, 439	Watton, Henry, Jesup, Iowa. Animal-poke	Aug. 17, 1875	700	217	8	315
160, 977	Way, Francis, Springfield, Ohio. Combined mangle and ironing-table	Apr. 20, 1875	794	258	7	692
160, 978	Way, Francis and Martin, Springfield, Ohio. Wash-bench	Mar. 16, 1875	675	221	7	459
161, 309	Same..... same	Mar. 16, 1875	676	{ 221 } 222	7	459
	Same..... Clothes-wringer	Mar. 23, 1875	794	325	7	509
170, 790	Way, Martin. (See Way, Francis & Martin.)					
	Way, Martin and Thomas R., assignors of one-half interest to George W. Kelley, Springfield, Ohio. Earth-auger	Dec. 7, 1875	122	40	8	967
162, 438	Way, Thomas R. (See Way, Martin and Thomas R.)					
	Wayland, James, assignor to self and Thomas M. Brintnall, New York, N. Y. Cloth winding and measuring machine	Apr. 20, 1875	791	257	7	691
	Wayne Agricultural Company. (See Lawrence & Thomas, assignors.)					
	Wayne Agricultural Company. (See Morgan, Edmond, assignor.)					
164, 353	Wayne, Joseph, Philadelphia, Pa. Tooth-brush	June 8, 1875	491	161	7	1007
165, 521	Wayne, William T., Conyngham, Pa. Saw-mill	July 13, 1875	386	115	8	69
161, 918	Weant, William A. (See Foster & Weant.)					
164, 354	Weant, William A., Salisbury, N. C. Railway-switch	Apr. 13, 1875	303	101	7	623
169, 068	Weare, John H. and Nathan, Cincinnati, Ohio. Culinary utensil	June 8, 1875	491	162	7	1007
167, 144	Weare, Nathan. (See Weare, John H. and Nathan.)					
	Weatherhead, James, San José, Cal. Guard-strap for shafts and strap-couplings	Oct. 19, 1875	719	237	8	681
	Weathers, James, Greensburgh, Ind. Combined sash-holder and curtain-fixture	Aug. 24, 1875	940	293	8	357
166, 830	Weatherwax, George W. (See Hick & Weatherwax.)					
165, 459	Weaver, Andrus S., Joy, N. Y. Sharpening-machine	Aug. 17, 1875	623	{ 193 } 194	8	305
160, 132	Weaver, Anthony, Syracuse, N. Y. Slide for extension-tables	July 13, 1875	330	97	8	61
166, 045	Weaver, George L., Hartford, Conn. Plane	Feb. 23, 1875	860	285	7	323
166, 046	Weaver, Henry M., Mansfield, Ohio. Wash-bowl	July 27, 1875	906	280	8	169
170, 791	Same..... Weighing-scales	July 27, 1875	907	280	8	169
	Weaver, James E., and William S. Colwell, Pittsburgh, Pa.; said Colwell assignor to said Weaver. Process and apparatus for manufacturing salt or sugar	Dec. 7, 1875	124	40, 41	8	967
164, 115	Weaver, J. Myron. (See Covell, Chace & Weaver.)					
167, 715	Weaver, Loyd, and Theodore Decker, Seymour, Conn. Machine for making twist-drills	June 8, 1875	267	91	7	978
158, 551	Weaver, Reuben M. (See Connel, James M., assignor.)					
166, 044	Weaver, Theophilus, Harrisburgh, Pa. Dumping-wagon	Sept. 14, 1875	306	97	8	457
170, 319	Weaver, William, Phoenixville, Pa. Lid for stoves	Jan. 5, 1875	173	59	7	33
	Same..... Horseshoe-calking vise	July 27, 1875	905	{ 279 } 280	8	169
	Webb, Charles B. (See Applegate & Webb.)	Nov. 23, 1875	991	310	8	888
159, 870	Webb, Edward. (See Flye & Watson, assignors.)					
168, 307	Webb, J. Burkitt, Urbana, Ill. Drawing-board	Feb. 16, 1875	609	201	7	281
165, 043	Webb, Rodolphus L., assignor to Landers, Frary & Clark, New Britain, Conn. Coffee-mill	Sept. 28, 1875	880	282	8	554
	Webb, Thomas, Elyria, Ohio. Feed-cutter	June 29, 1875	1149	371	7	1119
158, 552	Webb, W. A., et al. (See Minon, John O., assignor.)					
161, 719	Webber, Alanson P., Saratoga, Ill. Colter	Jan. 5, 1875	173	60	7	33
	Webber, Charles C., Holyoke, Mass. Centrifugal hydro-extractor	Apr. 6, 1875	108	39	7	585

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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167, 962	Webber, Charles C., Holyoke, assignor to Rice, Barton and Fales Machine and Iron Com- pany, Worcester, Mass. Centrifugal machine.	Sept. 21, 1875	536	172	8	499
162, 440	Webber, Josiah, jr., assignor to Eastern Manufacturing Company, Elizabeth, N. J. Ma- chine for polishing oil-cloth.	Apr. 20, 1875	795	258	7	692
163, 426	Webber, Sumner P., Charlotte, Mich. Coffee-pot.	May 18, 1875	670	214	7	858
168, 545	Webber, Thomas, Chicago, Ill. Dumping attachment for offal-presses.	Oct. 5, 1875	209	68	8	594
169, 500	Same.....Drying apparatus.	Nov. 2, 1875	158	52, 53	8	757
170, 036	Same.....Apparatus for treating blood, tank-offal, &c.	Nov. 16, 1875	703	{ 222 223 }	8	842
168, 308	Webber, Thomas, and Charles Stedman, Chicago, Ill. Composition for covering steam- boilers.	Sept. 28, 1875	881	.....	8	554
159, 781	Webber, Thomas E., Pittston, Me. Shaft-tug for harness.	Feb. 16, 1875	527	176	7	270
6, 830	Weber, Charles, West Meriden, Conn., assignor to Newark Tea Tray Company. Table- mat. (Reissue.)	Dec. 28, 1875	995	321	8	1106
170, 652	Weber, Herman, New York, N. Y. Rail-joint.	Nov. 30, 1875	1314	415	8	940
167, 716	Weber, John J., Saint Clair, Pa. Game apparatus.	Sept. 14, 1875	308	98	8	457
	Weber, Theodore A. (See Lathrop & Weber.)					
	Same.....same (Reissue.)					
166, 236	Weber, Theodore A., assignor of three-fourths interest to Resolvid Gardner and Leb- beus W. Lathrop, New York, N. Y. Sewing-machine.	Aug. 3, 1875	46	18	8	205
162, 724	Webster, David G., Parks Corner, Ill. Windmill.	Apr. 27, 1875	1084	344	7	736
162, 982	Webster, Frank D., Philadelphia, Pa. Horse-awning.	May 4, 1875	231	74	7	777
159, 130	Webster, Henry, Cassville, Wis. Adjustable cut-off for steam-engines.	Jan. 26, 1875	764	251	7	151
162, 981	Webster, Joel, Brooklyn, assignor to John C. Kelley, New York, N. Y. Sad-iron handle.	May 4, 1875	230	74	7	777
8, 027	Webster, John T., assignor to John and James Dobson, Philadelphia, Pa. Carpet. (De- sign).	Jan. 26, 1875	.....	.....	7	133
8, 028	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	133
8, 029	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	133
8, 030	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	135
8, 031	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	133
8, 032	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	133
8, 033	Same.....same (Design).	Jan. 26, 1875	.....	.....	7	133
8, 467	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 468	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 469	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 470	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 471	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 472	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 473	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 474	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 475	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 476	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 477	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 478	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 479	Same.....same (Design).	July 13, 1875	.....	.....	8	48
8, 480	Same.....same (Design).	July 13, 1875	.....	.....	8	48
166, 166	Webster, John F., Hamilton, Canada. Metal-screw machine.	July 27, 1875	1026	316	8	166
171, 454	Webster, Joseph H., Saint Louis, Mo. Roll for rolling iron.	Dec. 21, 1875	773	256	8	1069
159, 726	Webster, Joshua B., assignor of two-thirds interest to Marquis D. and Lucien B. King, Genoa, N. Y. Wagon-jack.	Feb. 9, 1875	455	152	7	256
165, 280	Webster, Joshua B., and William A. Dorr, Stockton, and Martin McClenathan, Merced, Cal. Harvester.	July 6, 1875	122	38	8	26
	Webster Loom Company. (See Webster & Wade, assignors.)					
	Webster, Perlee H. (See Clow & Webster.)					
160, 489	Webster, Theodore L., Brooklyn, N. Y. Machine for subsoiling and digging vegetables.	Mar. 2, 1875	210	72	7	379
167, 370	Same.....Car starter and brake.	Aug. 31, 1875	1160	366	8	396
161, 186	Webster, Thomas J., Humboldt, Kans. Washing-machine.	Mar. 23, 1875	873	286	7	494
	Webster, William. (See Bodel, Mosse & Webster.)					
161, 720	Webster, William, Middletown, Ohio. Paper-bag machine.	Apr. 6, 1875	109	39	7	585
170, 922	Webster, William, Morrisania, and James Wade, New York, N. Y., assignors to Web- ster Loom Company. Loom for weaving piled fabrics.	Dec. 7, 1875	234	80	8	982
160, 802	Weed, Charles, Boston, Mass. Atomizer.	Mar. 16, 1875	529	171	7	438
164, 888	Weed, James A., Binghamton, N. Y., assignor to H. H. Doubleday, Washington, D. C. Burglar-alarm.	June 22, 1875	998	322	7	1091
169, 214	Weed, James A., Binghamton, N. Y. Burglar-alarm.	Oct. 26, 1875	866	282	8	710
169, 501	Weed, Robert L., New York, N. Y. Cigar-pipe.	Nov. 2, 1875	159	53	8	757
	Weed Sewing Machine Company. (See Carter, James, assignor.)					
8, 326	Weeden, William B., assignor to Weybosset Mills, Providence, R. I. Fancy cassi- mere.	May 11, 1875	.....	.....	7	783
8, 592	Same.....same (Design).	Aug. 31, 1875	.....	.....	8	364
	Weeden, William N. (See Hallas & Weeden.)					
163, 557	Weeden, William N., assignor to Benedict & Burnham Manufacturing Company, Waterbury, Conn. Drawer-pull.	May 18, 1875	796	252	7	874
164, 622	Same.....Lamp-burner spring.	June 15, 1875	736	241	7	1050
167, 371	Same.....Lamp-socket.	Aug. 31, 1875	1161	366	8	396
167, 963	Same.....Clock-case.	Sept. 21, 1875	537	172	8	499
168, 436	Weedermann, Erich J., Copenhagen, Denmark. Ice-breaking vessel.	Oct. 5, 1875	101	35	8	579
165, 900	Weeks, Abner B., Rockland, Me. Lime-kiln.	July 20, 1875	756	241	8	137
165, 638	Weeks, A. Clarence, New York, N. Y. Lemon-squeezer.	July 13, 1875	497	152	8	85
158, 553	Weeks, George H., assignor of one-half interest to Charles B. Gould, Aurora, N. Y. Mowing-machine.	Jan. 5, 1875	174	60	7	33
163, 558	Weeks, Platt B., and Martin Metcalf, Battle Creek, Mich. Shaft-coupling.	May 18, 1875	797	252	7	874
161, 721	Weeks, Samuel, New Orleans, La. Compound switch for fire-alarm telegraphs.	Apr. 6, 1875	110	39	7	585
165, 281	Same.....Circuit-closer for railway-signals.	July 6, 1875	123	38	8	26
	Wegener, Charles. (See Kruse, Lauritz T., assignor.)					
	Wehagen, Theodore. (See Hipp, Wehagen & Nickel.)					
167, 286	Wehres, William, Evansville, Ind. Chain-pump.	Aug. 31, 1875	1085	341	8	385
161, 369	Weible, William F., Tidioute, Pa. Gas-retort.	Mar. 30, 1875	1067	347	7	526
168, 691	Weich, John, and John Jefferys, New York, N. Y. Folding-cradle.	Oct. 11, 1875	362	119	8	624
	Weidig, John, et al. (See De Beaumont, Alexandre, assignor.)					
	Weidmann & Co., A. (See Fischer, William G., assignor.)					
170, 421	Weidner, William N., Perth Amboy, N. J. Brick-kiln.	Nov. 23, 1875	1083	341	8	901
159, 871	Weightman, James C., Malden, Mass. Grate.	Feb. 16, 1875	69	202	7	281
161, 998	Weikert, John, Indianapolis, Ind. Device for detaching horses from vehicles.	Apr. 13, 1875	365	123	7	736
162, 725	Weil, Leopold, New York, N. Y. Hoop for barrels.	Apr. 27, 1875	1085	344	7	756

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161, 310	Weiland, Harry B., Martinsburgh, W. Va. Sewing-machine	Mar. 23, 1875	995	326	7	509
168, 817	Weinel, Josiah J., Westmoreland County, Pa., assignor of one-half interest to Hiram H. Wray. Mining-machine	Oct. 11, 1875	476	155	8	639
168, 948	Weinig, Paul, Hanau, Prussia, assignor to Frederick W. Wolf, Chicago, Ill. Malt-kiln floor	Oct. 19, 1875	605	201	8	666
169, 934	Weinmar, Louis, Buffalo, N. Y. Apparatus for preserving beer	Nov. 16, 1875	622	193	8	830
161, 846	Weinstock, Simon, New York, N. Y. Basket	Apr. 6, 1875	227	76	7	601
164, 116	Weir, Daniel P., Salem, Mass. Fluid-meter	June 8, 1875	268	92	7	978
171, 073	Weir, Fredric C., Cincinnati, O. Railway-frog	Dec. 14, 1875	394	131	8	1010
158, 448	Weir, John, New York, N. Y. Pulley-block	Jan. 5, 1875	83	29	7	21
166, 167	Same. Same	July 27, 1875	1028	316	8	186
164, 623	Weirich, Benedict, assignor to self and Jacob J. Hochstetter, Middlebury, Ind. Windmill	June 15, 1875	737	241	7	1050
160, 291	Weis, John B., Sandusky, Ohio. Beer-cooler	Mar. 2, 1875	31	12	7	353
165, 291	Weis, Wendelin, Saint Paul, Minn. Fastening for egg and fruit box covers	June 29, 1875	1151	371	7	1119
168, 692	Same. Egg-carrier	Oct. 11, 1875	362	119	8	624
158, 768	Weisebrock, Frederic W., Brooklyn, assignor to Henry W. Shepard and Robert Seaman, New York, N. Y. Gas-governor	Jan. 12, 1875	382	130	7	77
170, 137	Weiss, Albert R. (See Stockwell & Weiss.) Weiss, Emanuel, Basle, Switzerland, assignor to Frederick Buxtof, Brooklyn, N. Y. Anti-incrustation compound	Nov. 16, 1875	802		8	855
164, 785	Weiss, Thomas. (See Cunningham, Peter B., assignor.) Wekey, Agnes F. (See Wekey, Sigismund and Agnes F.) Wekey, Sigismund and Agnes F., New York, N. Y. Cylinder washing-machine	June 22, 1875	896	292	7	1079
164, 063	Welch, Alonzo T. (See Maxim, Hiram S., assignor.) Welch, E. B. (See Anders, George L., assignor.) Welch, E. Baker. (See Aldridge, Liberty, assignor.) Welch, Edward P., et al. (See Reynolds, Ransom S., assignor) (Reissue.) Welch, Harlow M., Cowansville, Canada. Culinary steamer	June 1, 1875	196	71	7	957
161, 462	Welch, Herbert P., et al. (See Reynolds, Ransom S., assignor) (Reissue.) Welch, James H., et al. (See Reynolds, Ransom S., assignor) (Reissue.) Welch, James S., et al. (See Reynolds, Ransom S., assignor) (Reissue.) Welch, Orin T., Topeka, Kans. Nut-lock	Mar. 30, 1875	1155	373	7	538
165, 193	Welch, Rosia W., et al. (See Reynolds, Ransom S., assignor) (Reissue.)	July 6, 1875	52	15	8	16
167, 964	Weld, George B., Providence, R. I. Caliber-gage	Sept. 21, 1875	538	172	8	499
165, 282	Weld, Henry, Hale, Ill. Windmill attachment	July 6, 1875	124	38	8	26
6, 294	Weld, J. Gardner. (See Mayo, Matthias C., assignor.)	Feb. 16, 1875	733	244	7	297
158, 658	Weldon, Francis, Mominabad, Deccan, India. Apparatus for measuring distances	Jan. 12, 1875	291	97	7	64
162, 726	Weller, John B., Bellbrook, and Finley G. Hopkins, Xenia, Ohio. Curtain-fastening	Apr. 27, 1875	1086	344	7	736
167, 717	Weller, Marvin E. (See Lintner, Weller & Kellogg.)	Sept. 14, 1875	308	98	8	457
170, 653	Welles, Richard J., Saint Joseph, Mo. Umbrella-support	Nov. 30, 1875	1315	415	8	940
170, 612	Same. Wrench	Nov. 30, 1875	1279	403	8	935
166, 324	Welles, Richard J., Kenosha, Wis. Countersink	Aug. 3, 1875	126	39	8	217
6, 789	Wellhouse, George, Akron, Ohio. Grate	Dec. 7, 1875	257	84	8	984
162, 727	Wellington, William J., Niles, Mich. Chill	Apr. 27, 1875	1086	344	7	736
162, 728	Wellington, Henry, New York, N. Y. Street-lamp	Apr. 27, 1875	1087	345	7	736
165, 964	Same. Vapor-burning torch	July 27, 1875	831	255	8	159
158, 449	Same. Street-lamp	Jan. 5, 1875	84	29	7	21
160, 629	Wellman, Alfred C., assignor of one-half interest to B. W. Griffin, Walla-Walla County, Wash. Calculator	Mar. 9, 1875	344	116	7	407
164, 499	Wellman, Edwin G., Canandaigua, N. Y. Car-seat	June 15, 1875	134	205	7	1035
169, 321	Wellman, George O., Salem, Mass. Folding rocking-chair	Oct. 26, 1875	974	316	8	724
168, 437	Wells, Charles, Cincinnati, Ohio. Printing-press	Oct. 5, 1875	101	35	8	579
161, 311	Wells, Charles S. (See Salisbury & Wells.) Wells, Daniel A., assignor to John A. Bradley. Cheese-protector	Mar. 23, 1875	996	326	7	509
162, 983	Wells, Frederic E., assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Screw-threading die	May 4, 1875	232	75	7	778
8, 044	Wells, Frederic E., assignor to Wiley & Russell Manufacturing Company, Greenfield, Mass. Screw-threading die	Feb. 2, 1875			7	181
8, 862	Wells, George A., assignor to Fuller, Warren & Co., Troy, N. Y. Cooking-stove (Design.)	Dec. 21, 1875			8	1034
8, 863	Wells, George A., and Edmund J. Cridge, assignors to Fuller, Warren & Co., Troy, N. Y. Parlor-stove	Dec. 21, 1875			8	1034
8, 864	Same. Cooking-range	Dec. 21, 1875			8	1034
163, 706	Wells, George A., and Nicholas S. Vedder, Troy, and Tobias S. Heister, Lansingburgh, assignors to Fuller, Warren & Co., Troy, N. Y. Cooking-stove (No. 3. Design.)	Dec. 21, 1875			8	1034
168, 361	Wells, George D. (See Gunn & Wells.) Wells, George H., Nashville, Tenn. Gas-purifier	May 25, 1875	938	298	7	900
167, 810	Wells, Harrison. (See Gunn & Wells.) Wells, Harvey L., Burlington, Iowa. Automatic cistern cut-off	Oct. 5, 1875	39	14	8	570
169, 663	Wells, Henry M., Toronto, Canada. Window-shade clasp or fastener	Sept. 14, 1875	400	128	8	470
161, 645	Wells, James E., New Milford, Conn. Machine for stretching hat-bodies	Nov. 9, 1875	343	108	8	787
159, 486	Wells, James T., Scott County, Ill. Riding attachment for plows	Apr. 5, 1875	49	19	7	576
170, 136	Wells, Jerome B., Rochester, N. Y. Door-knob fastening	Feb. 2, 1875	231	75	7	216
163, 427	Wells, Joseph L., Philadelphia, Pa. Elastic underlays for printing on glass	Nov. 16, 1875	801	253	8	855
162, 874	Wells, Nathan P., et al. (See Griswold, Lev, assignor.) Wells, Richardson & Co. (See Van Patten, William J., assignor.)	May 18, 1875	670	214	7	858
164, 950	Wells, Solomon, Brownsville, Ky. Washing-machine	May 4, 1875	125	41	7	763
167, 145	Wells, Warren A., et al. (See Reed, William H., assignor.) Wells, William, assignor of one-half interest to G. B. Johnson, Cleveland, Ohio. Auger	June 29, 1875	1073	345	7	1108
164, 500	Wells, William, Cleveland, Ohio. Trace-fastener	Aug. 24, 1875	940	293	8	358
162, 441	Welsh, Alonzo T., et al. (See Clough, Theodore, assignor.) Welsh, Thomas W. (See Ford, Westinghouse & Welsh.)	June 15, 1875	635	205	7	1035
164, 624	Welshans, Joseph L., Aulville, Mo. Portable fence	Apr. 20, 1875	795	259	7	692
8, 460	Welter, James K., assignor of three-fourths interest to John F. Pritchard and Nat. Covington, Springfield, Ill. Power for running sewing-machines	June 15, 1875	738	241	7	1050
158, 764	Welter, James K., Chicago, Ill., assignor to James Rayburn and Robert W. King. Corn-planter	July 6, 1875			8	4
170, 320	Wemyss, Alexander, Philadelphia, Pa., assignor to Jesse Orr, John R. Painter, William Grandner, P. W. Nagle, H. C. Posey, William H. Schick, Elijah Bull, Jasper Sheeler, and William M. Stauffer, Reading, Pa. Stove (Design.)	Jan. 12, 1875	377	128	7	77
	Wendel, Conrad, and William Florich, New York, N. Y. Centrifugal evaporator	Nov. 23, 1875	992	311	8	888
	Wendell, Washington, Orange, Mass. Machine for forming brush-handles					

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167, 206	Wenell, Frank O., Plainfield, Ill. Seed-planter	Aug. 31, 1875	1018	316	8	375
170, 422	Wengler, Robert M., Freiberg, Saxony, assignor of one-half interest to Francis A. Lowe, Washington, D. C. Method and apparatus for classifying ores	Nov. 23, 1875	1084	341	8	901
165, 639	Wenk, Theodore, <i>et al.</i> (See Anthes, Frederick, assignor.) Wenmackers, Jerome, Philadelphia, Pa. Aquarium	July 13, 1875	497	152	8	86
159, 727	Wenrich, D. K. (See Hamilton, Joseph A., assignor.) Wentworth, Charles H. (See Wood & Wentworth.) Wentworth, George W. (See Archer, Horace S., assignor.)	Feb. 9, 1875	456	152	7	256
163, 828	Wentworth, James H., Boston, Mass. Cooking-stove	May 25, 1875	1041	330	7	915
159, 872	Wenzel, George C., Newburgh, N. Y. Apparatus for variegating soap	Feb. 16, 1875	611	202	7	281
159, 873	Wenzel, Herman, New York, N. Y. Parlor-fountain	Feb. 16, 1875	611	202	7	281
167, 207	Werden, Cyrus A., assignor to self and William B. Werden, Waukegan, Ill. Fruit-gatherer	Aug. 31, 1875	1019	317	8	375
162, 984	Werden, William B. (See Werden, Cyrus A., assignor.) Werner, August F., Rochester, N. Y. Window-bead fastener	May 4, 1875	233	75	7	778
164, 786	Werni, Pelag, Philadelphia, Pa. Compound for preserving wood	June 22, 1875	898		7	1080
169, 872	Werni, Pelag, assignor of one-half interest to E. Lucien Richie, Philadelphia, Pa. Carbureting apparatus	Nov. 9, 1875	554	173	8	814
165, 392	Wernigk, Edward, Monee, Ill. Process of manufacturing whisky	July 6, 1875	239		8	41
167, 718	Wernimont, George, Dubuque, Iowa. Car-coupling	Sept. 14, 1875	309	98	8	457
164, 240	Wertheim, Joseph, Frankfort-on-the-Main, Prussia. Ship's furniture to prevent sea-sickness	June 8, 1875	377	128	7	993
165, 283	Wertheim, Joseph, Frankfort-on-the-Main, Germany. Automatic feed-water regulator	July 6, 1875	126	38	8	26
160, 373	Wertman, Daniel K., Shenandoah, Pa. Revolving rack for holding stockings	Mar. 2, 1875	102	37	7	363
158, 450	Werts, Henry W. (See Pentz, Levi, assignor.) Werts, William, Camden, N. J. Pinch-bar	Jan. 5, 1875	84	29	7	21
165, 522	Wertz, Frank, Mahanoy City, Pa. Auger-handle	July 13, 1875	386	115	8	69
160, 043	Wescott, Edwin J., Hyde Park, assignor to P. R. Tripp, Boston, Mass. Jig-saw	Feb. 23, 1875	787	259	7	312
164, 787	Wescott, Edwin J., Hyde Park, and William H. McGregor, Braintree, Mass. Scroll-sawing machine	June 22, 1875	898	292	7	1080
162, 510	Wessar, Andrew, Dubuque, Iowa, and Peter W. Cornelius, Minneapolis, Minn. Foot-mat	Apr. 27, 1875	880	282	7	711
160, 374	Wessman, Martin F., Cherry Hill, N. J. Mechanical telegraph-sounder	Mar. 2, 1875	102	37	7	363
158, 874	Wesson, Daniel B., Springfield, Mass. Revolving fire-arm	Jan. 19, 1875	500	168	7	109
163, 036	Same	May 11, 1875	300	96	7	793
165, 965	West and Lee Game and Printing Company. (See West, Presbury, assignor.) West, Augustine C., Chicago, Ill., assignor to Isaac R. Andrews and Dillwyn R. Jones. Sewing-machine caster	July 27, 1875	832	256	8	159
170, 321	West, Charles A., Richmond, Va. Safety car-heater	Nov. 23, 1875	993	311	8	888
165, 139	West, Daniel K., Kentish Town, England. Steam-engines	June 29, 1875	1235	397	7	1131
159, 131	West, George. (See West, William, assignor.) West, Henry T., Philadelphia, Pa. Lawn-mower	Jan. 26, 1875	765	252	7	151
160, 133	West, John, Minneapolis, Minn. Car-coupling	Feb. 23, 1875	861	285	7	323
160, 490	West, John, Maidstone, Great Britain. Charger for gas-retorts	Mar. 2, 1875	211	73	7	379
6, 636	West, John J., Chicago, Ill. Gas-stove	Sept. 7, 1875	204	64	8	434
163, 344	Same	May 18, 1875	603	193	7	849
160, 292	West, John W., Boston, assignor of one-half interest to Augustus Seaver, Milford, Mass. Spooling-machine	Mar. 2, 1875	32	12	7	353
161, 647	West, John W., Boston, Mass. Spooling-machine	Apr. 6, 1875	50	19	7	576
161, 080	West, Joseph I. (See Kose, Israel M., assignor.) West, Joseph J. (See Rose, Israel M., assignor.) (Reissue.) West, Presbury, assignor to West & Lee Game and Printing Company, Worcester, Mass. Croquet apparatus	Mar. 23, 1875	775	255	7	481
168, 859	West, Samuel A. (See Goodwin & West.) West, Thomas D., Cleveland, Ohio. Sad-iron	Oct. 19, 1875	524	172	8	655
161, 646	West, True, assignor to George H. Vincent, Boston, Mass. Car-seat	Apr. 6, 1875	50	19	7	576
165, 284	West, William, assignor of one-half interest to George West, Toronto, Canada. Bedstead	July 6, 1875	127	39	8	26
159, 990	West, William N., Milford, Mich. Corn-harvester	Feb. 16, 1875	730	239	7	295
160, 248	Westbrook, Abraham D., Astoria, N. Y. Interfering boot for horses	Feb. 23, 1875	960	316	7	337
164, 408	Westcott, Caroline, Chicago, Ill. Chemise	June 15, 1875	556	181	7	1025
169, 215	Westcott, Charles S., Elizabeth, N. J., assignor to Westcott Type Setting Company, New York, N. Y. Type casting and setting machine	Oct. 26, 1875	866	282	8	710
169, 216	Same	Oct. 26, 1875	869	283	8	711
167, 592	Westcott, Daniel L., Fort Wayne, Ind. Carbureter	Sept. 7, 1875	189	59	8	432
167, 811	Same	Sept. 14, 1875	400	129	8	470
171, 201	Westcott, George N., Cortlandville, N. Y. Lathe for turning irregular forms	Dec. 14, 1875	225	173	8	1027
168, 546	Westcott, John, Tocoi, Fla. Methods of using carbonic-acid gas as a motive-power	Oct. 5, 1875	210	69	8	594
169, 322	Same	Oct. 26, 1875	974	316	8	724
169, 606	Same	Nov. 2, 1875	267	87	8	770
159, 989	Westcott, John H., Oneida, N. Y. Scroll-chuck	Feb. 16, 1875	720	239	7	295
166, 831	Westcott, Nathaniel W., Providence, R. I. Weft-thread knitting-machine	Aug. 17, 1875	623	194	8	305
165, 640	Westcott Type Setting Company. (See Westcott, Charles S., assignor.) Westcott, William, Syracuse, N. Y. Heel-polishing machine	July 13, 1875	498	152	8	86
159, 874	Westerfield, William, New York, N. Y. Street-sprinkler	Feb. 16, 1875	612	203	7	281
163, 829	Westerkamp, Christian, Cincinnati, Ohio. Fracture-box	May 25, 1875	1042	330	7	915
163, 904	Western Electric Manufacturing Company. (See Lewis, Charles W., assignor.) (Design.) Western Union Telegraph Company. (See Stearns, Joseph B., assignor.) (Reissue.) Westgate, Joseph D., assignor to self and Ann E. Bodwell, Lynn, Mass. Machine for cutting button-holes in cloth, leather, &c	June 1, 1875	56	19	7	938
159, 533	Westinghouse, George, jr. (See Ford, Westinghouse & Welsh.) Same	Feb. 9, 1875	295	95	7	232
159, 782	Westinghouse, George, jr., Pittsburgh, Pa. Pneumatic pump	Feb. 16, 1875	528	176	7	276
160, 803	Same	Mar. 16, 1875	530	172	7	439
162, 782	Same	May 4, 1875	43	14	7	752
166, 489	Same	Aug. 10, 1875	306	92	8	249
168, 119	Same	Sept. 28, 1875	713	225	8	530
168, 359	Same	Oct. 5, 1875	35	13, 14	8	569
170, 138	Westland, Charles S., assignor of one-half interest to Allen Fire Department Supply Company, Providence, R. I. Hose-nozzle	Nov. 16, 1875	803	254	8	855
161, 722	Weston, Chauncey C., Washington, D. C. Incubator	Apr. 6, 1875	111	39, 40	7	585

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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166, 433	Weston, Edward, New York, N. Y., assignor to Stevens, Roberts & Havell, Newark, N. J. Manufacture of anodes for nickel-plating.....	Aug. 3, 1875	237		8	233
162, 442	Weston, Emile R., assignor to Joseph P. Bass, Bangor, Me. Photograph-burnisher.....	Apr. 20, 1875	796	259	7	692
164, 625	Same..... Lubricator for photographs.....	June 15, 1875	739	.....	7	1056
165, 140	Same..... Burnisher for photographs.....	June 29, 1875	1236	398	7	1131
159, 534	Weston, John, assignor to A. Frye & Co., Sulphur Springs, Ohio. Tug-buckle.....	Feb. 9, 1875	296	95	7	232
170, 974	Westwater, William, Pittsburgh, Pa. Relief-valve for cylinders.....	Dec. 14, 1875	307	102	8	999
159, 234	Westwick, James B., assignor of one-half interest to R. J. Edwards, Galena, Ill. Pipe-wrench.....	Jan. 26, 1875	861	281	7	165
159, 783	Westwood, John T., Wheeling, W. Va., assignor to self and Caleb D. Devinney. Cut-nail machine.....	Feb. 16, 1875	529	176	7	270
168, 818	Wetherbee, Albert C., Hammonton, N. J. Shoemaker's knife.....	Oct. 11, 1875	477	155	8	640
159, 728	Wetherill & Co. (See Wetherill, Robert, assignor.)					
167, 803	Wetherill, Robert, assignor to Robert Wetherill & Co., Chester, Pa. Feed-water heater.....	Feb. 9, 1875	457	153	7	256
	Wetherill, William C., Youngstown, Ohio. Derrick.....	Sept. 21, 1875	462	146	8	487
	Wetherwax, Eli P. (See Tower, George E., assignor.)					
170, 975	Wetmore, Albert S., assignor to Jos. E. Lavey, Cleveland, Ohio. Suppository-mold.....	Dec. 14, 1875	308	102	8	999
160, 491	Wetmore, George W., Sturgis, Mich. Molding-machine.....	Mar. 2, 1875	212	73	7	379
160, 492	Wettstein, John, deceased, by Josephine Wettstein, administratrix, Highland, Ill. Cigar machine.....	Mar. 2, 1875	213	74	7	379
	Wettstein, Josephine, administratrix. (See Wettstein, John.)					
162, 326	Wey, Herman C., Hiawatha, Kans. Cut-off for shot-boxes.....	Apr. 20, 1875	680	222	7	678
	Weybosset Mills. (See Bosworth, Frederick S., assignor.) (Design.)					
	Same..... (See Walton, William A., assignor.) (Design.)					
	Same..... (See Weeden, William B., assignor.) (Design.)					
165, 772	Weyhe, Wilhelm, Bremen, Germany. Rotary engine.....	July 20, 1875	627	193	8	120
167, 812	Whaley, Barnett B., Brooklyn, N. Y. Alphabet-exhibitor.....	Sept. 14, 1875	402	129	8	471
168, 201	Wharton, John C., Nashville, Tenn. Draught-tube for soda-water.....	Sept. 28, 1875	791	251	8	541
	Wheatley, William M., et al. (See Donnellan, Charles E., assignor.)					
166, 168	Wheatstone, Charles, and John M. A. Stroh, London, England. Automatic telegraph.....	July 27, 1875	1029	317	8	186
166, 169	Same..... Magnet for electric telegraph.....	July 27, 1875	1030	317	8	187
	Whedon, Albert L. (See Swartout & Whedon.)					
	Wheeler, Abraham. (See Shipley & Wheeler.)					
	Wheeler & Wilson Manufacturing Company. (See Kingman, Samuel C., assignor.)					
	Same..... (See Thompson, Rosewell, assignor.)					
	Wheeler, Caleb, et al. (See Adgate, Joseph J., assignor.)					
160, 493	Wheeler, Christopher O., and Anthony Laffrey, Chicago, Ill. Seal-lock.....	Mar. 2, 1875	214	74	7	379
159, 875	Wheeler, Cyrenus, jr., Auburn, N. Y. Harvester-dropper.....	Feb. 16, 1875	613	203	7	281
162, 328	Same..... Pitman-holder for harvesting-machines.....	Apr. 20, 1875	682	222	7	678
163, 287	Wheeler, Cyrenus, jr., and Henry J. Case, Auburn, N. Y.; said Case assignor to said Wheeler. Harvester-seat.....	May 11, 1875	531	172	7	824
163, 707	Wheeler, Cyrenus, jr., Auburn, N. Y. Journal-bearing and pitman-connection.....	May 25, 1875	938	298	7	900
163, 708	Same..... Harvester-rake.....	May 25, 1875	939	{ 298 } { 299 }	7	901
163, 709	Wheeler, Cyrenus, jr., and Henry J. Case, Auburn, N. Y.; said Case assignor to said Wheeler. Mowing-machine.....	May 25, 1875	941	299	7	901
165, 460	Wheeler, Cyrenus, jr., Auburn, N. Y. Harvester.....	July 13, 1875	330	97, 98	8	61
165, 461	Same..... Mowing-machine.....	July 13, 1875	334	98	8	61
164, 241	Wheeler, Dwight, Bridgeport, Conn. Sewing-machine guide for banding hats.....	June 8, 1875	377	128	7	993
160, 630	Wheeler, Edwin G., Winona, Minn. Pocket-book safety attachment.....	Mar. 9, 1875	345	117	7	407
6, 551	Wheeler, Eli, Elmira, N. Y., assignor, by mesne assignments, to George M. Pullman, Chicago, Ill. Sleeping-car..... (Reissue).....	Sept. 21, 1875	662	210	8	516
162, 729	Wheeler, Elisha H., Memphis, Mo. Axle.....	Apr. 27, 1875	1088	345	7	737
163, 122	Wheeler, Franklin C., Saint Joseph, Mo. Folding table.....	May 11, 1875	374	122	7	804
160, 631	Wheeler, George B., New York, N. Y. Spice-box.....	Mar. 9, 1875	345	117	7	407
	Wheeler, Henry N., et al. (See Betts, Lewis F.)					
6, 307	Wheeler, Jesse B., Bolton, Mass., assignor, by mesne assignments, to James A. Maloney, Georgetown, D. C. Grain-drier..... (Reissue).....	Feb. 23, 1875	971	320	7	339
167, 372	Wheeler, Marshal, Big Rapids, Mich. Mainspring attachment for watches.....	Aug. 31, 1875	1162	366	8	396
170, 423	Same..... Solar chronometer.....	Nov. 23, 1875	1085	341	8	901
165, 774	Wheeler, Phillip H., Rockford, Ill. Watch-maker's box.....	July 20, 1875	629	193	8	120
165, 285	Wheeler, Roscoe B., assignor of one-half interest to Henry Lardner, Niles, Mich. Stave-basket.....	July 6, 1875	128	39	8	26
	Wheeler, Sarah J., New Britain, Conn. Curry-comb..... (Extension).....	Jan. 21, 1875	.....	.....	7	222
165, 045	Wheeler, Shepherd H., Niles, Mich. Stave-basket.....	June 29, 1875	1151	371	7	1119
169, 217	Wheeler, Shepherd H., Peru, Ind. Basket-bottom.....	Oct. 26, 1875	876	285	8	711
158, 659	Wheeler, Thomas N., Blue Earth City, Minn. Quilting-frame.....	Jan. 12, 1875	291	97, 98	7	65
165, 773	Wheeler, William F., Dorchester, Mass. Fertilizer-distributor.....	July 20, 1875	628	193	8	120
159, 729	Wheelock, Jerome, Worcester, Mass. Slide-valve seat.....	Feb. 9, 1875	458	153	7	256
165, 901	Same..... Lubricator for steam-engines.....	July 20, 1875	757	232	8	137
164, 788	Wheelock, Lewis M., Yorkshire Centre, N. J. Farm-fence.....	June 22, 1875	899	292	7	1080
171, 332	Whelan, James, Zanesville, Ohio. Apparatus for preserving corpses and other organic matter from decomposition.....	Dec. 21, 1875	662	{ 218 } { 219 }	8	1053
	Whidden, Albert H. (See Vaughn, Joseph W., assignor.) (Design.)					
164, 889	Whidden, Hosea H., South Abington, Mass. Shoe-nail.....	June 22, 1875	999	322	7	1092
168, 860	Whipple, Alfred B., Auburn, N. Y. Mail-bag catcher.....	Oct. 19, 1875	525	172	8	655
168, 861	Same..... same.....	Oct. 19, 1875	525	172	8	655
	Whipple, Chandler W. (See Whipple, Joe L., assignor.)					
	Whipple, Charles. (See Carroll, Thomas J., assignor.)					
166, 047	Whipple, Charles E., North Charlestown, N. H. Crank-motion.....	July 27, 1875	908	280	8	170
161, 648	Whipple, Clarence F., Grand Rapids, Wis. Wagon hound and tongue.....	Apr. 6, 1875	52	19	7	576
161, 649	Same..... Clothes-frame.....	Apr. 6, 1875	53	20	7	576
160, 980	Whipple, Ira, Mystic River, Conn. Clothes-drier.....	Mar. 16, 1875	677	222	7	459
6, 477	Whipple, James T., Oak Park, Ill. Pump for deep wells..... (Reissue).....	June 1, 1875	223	77	7	960
166, 048	Same..... Pump for tubular wells.....	July 27, 1875	908	281	8	170
160, 981	Whipple, Joe L., assignor to self and Chandler W. Whipple, Paw Paw, Mich. Wrench.....	Mar. 16, 1875	678	223	7	459
164, 626	Whipple, Lyman W., New York, N. Y. Napped fabric.....	June 15, 1875	739	242	7	1050
	Whistler, Thomas D. (See Winans & Whistler.)					
	Whitacre, George W. (See Pease & Whitacre.)					
158, 765	Whitaker, Joseph, Woonsocket, R. I. Lubricating-box.....	Jan. 12, 1875	378	129	7	77
166, 174	Whitaker, Samuel, Reading, Pa. Device for adjusting mill stones and spindles.....	July 27, 1875	1035	318	8	187
159, 236	Whitcomb, Francis N., and David Rawson, deceased, W. Ellery Davis, and Mary J. Rawson, administrators, Belmont, N. Y. Head-block for saw-mills.....	Jan. 26, 1875	862	281	7	165
160, 982	Whitcomb, Francis N., Amity, N. Y. Head-block for saw-mills.....	Mar. 16, 1875	678	223	7	460
160, 983	Same..... same.....	Mar. 16, 1875	681	{ 223 } { 224 }	7	460

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166, 170	Whitcomb, Francis N., Amity, and David Rawson, deceased, W. Ellery Davis, and Mary J. Rawson, administrators, Belmont, N. Y. Circular-saw mill.	July 27, 1875	1031	317	8	187
160, 984	Whitcomb, John B., Farmer City, Ill. Unloading and dumping grain.	Mar. 16, 1875	682	224	7	460
	Whitcomb, John E., et al. (See Ballou, George F., assignor.)					
	Whitcomb, Le Grand. (See Turner, George, assignor.)					
	Whitcomb, William W. (See Brackett & Whitcomb) (Reissue.)					
158, 554	Whitcomb, William W., Boston, Mass. Leak-stopper for hose.	Jan. 5, 1875	176	61	7	33
161, 187	White, Albert C., Brooklyn, N. Y. Method of enameling moldings.	Mar. 23, 1875	874	286	7	494
171, 455	Same. Mode of dressing enameled moldings.	Dec. 21, 1875	774	256	8	1069
161, 650	White, Albert E., assignor to Henry E. Moore, Chicago, Ill. Box-nailing machine.	Apr. 6, 1875	54	20	7	577
165, 393	White, Alexander, assignor of one-half interest to Alexander H. Hammond, Rock Island, Ill. Parlor cook-stove.	July 6, 1875	240	72	8	41
	White, Ancel B. (See White, Edward E., assignor.)					
162, 128	White, Charles A., Philadelphia, Pa. Dental pot.	Apr. 13, 1875	483	159	7	646
162, 129	Same. Dental flask.	Apr. 13, 1875	484	160	7	646
	White, Edward D. (See Stanley, Ira N., assignor.)					
162, 730	White, Edward E., Oakland City, assignor of one-half interest to Ancel B. White, Lynnville, Ind. Machine for making splints.	Apr. 27, 1875	1089	345	7	737
	White, Elisher J. (See Bloss & White.)					
168, 821	White, Ellen, Joliet, Ill. Portable fire-place.	Oct. 11, 1875	479	156	8	640
163, 905	White, Eugene A., Boston, Mass. Folding music-stand.	June 1, 1875	56	19	7	938
163, 123	White, Frederic F., Stacyville, Iowa. Harvester.	May 11, 1875	374	122	7	804
166, 668	White, George H., Cleveland, Ohio. Machine for welding tubing.	Aug. 10, 1875	459	141	8	272
164, 627	White, George W., Malden, Mass. Hot-air furnace.	June 15, 1875	740	242	7	1050
163, 125	White, George W., and Walter I. Leary, Edenton, N. C. Clock-escapement.	May 11, 1875	377	122	7	804
165, 462	White, George W., assignor to James M. Thompson, San Francisco, Cal. Ore-concentrator.	July 13, 1875	336	98	8	61
	White, Gilman. (See Burr, James H., assignor.)					
166, 910	White, Hartshorn, and Morris Levy, Phillipsburgh, N. J. Exhaust-nozzle.	Aug. 17, 1875	701	218	8	315
158, 875	White, Henry A., Hamilton, Canada. Damper.	Jan. 19, 1875	501	168	7	109
166, 171	White, Henry J., Green Bay, Wis., assignor to James V. Hiddleston, Chicago, Ill. Dried-fruit loosener.	July 27, 1875	1032	318	8	187
166, 437	White, Henry K., assignor to J. Estey & Co., Brattleborough, Vt. Reed-organ.	Aug. 3, 1875	240	73	8	233
6, 812	White, Hiram W., Oskaloosa, Iowa, assignor to Lyon & Healey, Chicago, Ill. Chin-rest for violins.	Dec. 21, 1875	786	260	8	1070
171, 541	White, Hiram W., Oskaloosa, Iowa, assignor to George W. Lyon and Patrick J. Healey, Chicago, Ill. Chin-rest for violins.	Dec. 28, 1875	875	286	8	1091
168, 820	White, Hiram W., Anderson, Ind. Violin.	Oct. 11, 1875	478	156	8	640
159, 991	White, Hugh, assignor of two-thirds interest to C. H. Fargo & Co., Chicago, Ill., and John Mundell & Co., Philadelphia, Pa. Shoe-tip.	Feb. 16, 1875	721	240	7	296
167, 593	White, Isaac, Cedar Rapids, Iowa. Ticket-case.	Sept. 7, 1875	190	59	8	433
163, 710	White, James, Cleveland, Ohio. Helical-cone suction-fan.	May 25, 1875	942	299	7	901
171, 333	White, J. Atwood, assignor of one-half interest to Samuel B. Dorlan, Dorlan's Mills, Pa. Pipe-wrench.	Dec. 21, 1875	664	219	8	1054
165, 394	White, John G., Charlotte, Mich. Blind-slat adjuster.	July 6, 1875	242	73	8	41
170, 139	White, John T., Arlington, Mass. Calking vessels.	Nov. 16, 1875	804	254	8	855
	White, John W. (See Farmer, James C., assignor.)					
8, 427	White, Joseph, Philadelphia, Pa. Bird-house. (Design.)	June 22, 1875			7	1057
162, 731	Same. Globe-holder.	Apr. 27, 1875	1090	345	7	737
168, 819	White, Joseph J., New Lisbon, N. J., assignor to C. M. Crandall & Co., Montrose, Pa. Tag.	Oct. 11, 1875	477	156	8	640
166, 571	White, Joseph W., Weymouth, Mass. Machine for cutting fan-sticks.	Aug. 10, 1875	372	114	8	260
168, 071	White, J. Spence, Prescott, Wis. Fly-trap.	Sept. 21, 1875	654	207	8	515
170, 792	White, Leonard A., and George W. Lewin, Dighton, Mass. Register for stoves.	Dec. 7, 1875	126	42	8	967
8, 571	White, Le Roy S., assignor to Brown & Brothers, Waterbury, Conn. Handle of forks and spoons. (Design.)	Aug. 17, 1875			8	281
164, 951	White, Lewis B., assignor to self and S. R. White, Norfolk, Va. Plow.	June 29, 1875	1073	346	7	1108
164, 952	Same. same.	June 29, 1875	1075	346	7	1109
164, 890	White, Martin E. B., assignor of one-half interest to James Martin, Albany, N. Y. Cartridge-box.	June 22, 1875	999	323	7	1092
165, 286	White, Otis C., Hopkinton, Mass. Head-rest.	July 6, 1875	129	39	8	26
169, 873	White, Peter, Saint Louis, Mo. Compression-cock.	Nov. 9, 1875	555	173	8	814
162, 208	White, Rollin, Lowell, Mass. Revolving fire-arm.	Apr. 20, 1875	572	188	7	665
166, 173	Same. same.	July 27, 1875	1034	318	8	187
171, 494	White, Samuel, Eau Claire, Wis. Head-block for saw-mills.	Dec. 28, 1875	832	273	8	1085
	White, Samuel S. (See Bishop, Joaquin, assignor.)					
	Same. (See Buckingham, Starr & White.)					
	Same. (See Cogswell, Thomas, assignor.)					
	Same. (See Cushing, George H., assignor.)					
	Same. (See Dean, James C., assignor.) (Reissue.)					
	Same. (See Demorest, W. Jennings, assignor.) (Reissue.)					
	Same. (See Engle, Stephen D., assignor.)					
	Same. (See Evans, William W., assignor.)					
	Same. same. (Reissue.)					
	Same. (See Gilbert, John W., assignor.)					
	Same. (See Gray, Elisha, assignor.)					
	Same. (See Green, George F., assignor.)					
	Same. (See Green & White.)					
	Same. (See Heindsmann, Ferdinand, assignor.)					
	Same. (See Hickman, Francis, assignor.)					
	Same. (See Newbrough, John B., assignor.)					
	Same. (See Rehfuess, George, assignor.)					
	Same. (See Ryder, Edward P., assignor.)					
	Same. (See Starr & White.)					
	Same. (See Starr, Eli T., assignor.)					
	Same. (See Williams, John A. B., assignor.)					
8, 193	White, Samuel S., Philadelphia, Pa. Dental-tool stand. (Design.)	Mar. 2, 1875			7	345
167, 209	Same. Dental drill.	Aug. 31, 1875	1020	317	8	375
169, 753	Same. Dental polishing-tool.	Nov. 9, 1875	436	138	8	799
	White, S. R. (See White, Lewis B., assignor.)					
170, 457	White, Stillman, Providence, R. I. Hose-coupling.	Nov. 30, 1875	1130	357	8	916
	White, Sylvanus. (See Crandall, Jesse A., assignor.)					
164, 064	White, Thomas, Waynetown, Ind. Extension-table.	June 1, 1875	197	71	7	957
167, 594	White, Thomas, Quincy, Ill. Heating-stove.	Sept. 7, 1875	191	60	8	433
168, 438	White, Thomas F., New York, N. Y. Dead-cart.	Oct. 5, 1875	102	35	8	580

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162, 784	White, Willard M., Boston, Mass. Head-rest	May 4, 1875	46	14, 15	7	753
167, 419	White, William E., assignor to self and William Lindley, Birmingham, Conn. Barrel-bung	Sept. 7, 1875	37	11	8	411
165, 141	White, William H. (See Bots & White.)					
168, 693	White, William H., Brooklyn, N. Y., assignor of two-thirds interest to Charles H. Neilson and Henry M. Martin. Scrubber and condenser for illuminating-gas	June 29, 1875	1236	398	7	1131
169, 069	White, William W., New York, N. Y. Key-fastener	Oct. 11, 1875	363	119	8	624
166, 435	Whitecar, Thomas J., Philadelphia, Pa. Anchor	Oct. 19, 1875	719	237	8	682
150, 487	Whitehead, John W., Saco, Me. Buffer for mule-carriages	Aug. 3, 1875	239	73	8	233
160, 558	Whitehead, William E., et al. (See Labounty, Leonard J., assignor.)					
166, 172	Whitehead, William E., Mills Platin, England, and Abel T. Atherton, Lowell, Mass. Beater for cotton-openers, &c	Feb. 2, 1875	232	75	7	216
166, 438	Whitehead, William E., Miles Plating, England, and Abel T. Atherton, Lowell, Mass. Cotton opener and lapper	Mar. 9, 1875	284	96	7	398
166, 438	Whitehill, Robert, New York, N. Y. Sewing-machine	July 27, 1875	1033	318	8	187
162, 783	Whitehouse, Thomas, Somerville, assignor to American Tube Works, Boston, Mass. Tube-drawing mandrel	Aug. 3, 1875	240	73	8	233
161, 723	Whitehouse, William A. (See Hunt & Whitehouse)					
169, 874	Whiteley, Joseph, Dunlap, Iowa. Brick-machine	May 4, 1875	45	14	7	753
170, 613	Whiteley, William N., Springfield, Ohio. Harvester-rake	Apr. 6, 1875	112	40, 41	7	585
	Same..... Harvester	Nov. 9, 1875	556	174	8	814
	Same..... Harvester rake	Nov. 30, 1875	1280	404	8	935
163, 124	Whitemore, Albert O. (See Hall, Gordon W., assignor.)					
163, 428	Whitescarver, John S. and William C., Pontiac, Ill. Excavator	May 11, 1875	375	122	7	804
	Whitescarver, William C. (See Whitescarver, John S. and William C.)					
170, 923	Whiteside, Addison H., Onarga, Ill. Harrow	May 18, 1875	671	215	7	858
163, 126	Whiteside, Joel G. (See Bowen & Whiteside.)					
166, 434	Whiteside, Maria E. (See Wolfson, Eli J., assignor.)					
168, 070	Whiteside, Maria E., Polo, Ill. Dish-washer	Dec. 7, 1875	235	81	8	982
171, 074	Whiteside, Samuel M., and Amos C. Holliday, Wheeling, W. Va. Coal-holder	May 11, 1875	378	123	7	804
160, 068	Whiting, Andrew F., Crestline, Ohio. Reversible latch	Aug. 3, 1875	238	72	8	233
170, 424	Whiting, George B., Washington, D. C. Engine for twin-screw propellers	Sept. 21, 1875	653	207	8	515
170, 500	Whiting, James M., Providence, R. I., assignor of one-half interest to Walter Taber, Acushnet, Mass. Sad-iron	Dec. 14, 1875	395	131	8	1010
165, 464	Whiting, James R., New York, and William A. Lawrence, Springfield, L. I., N. Y. Apparatus for the use and recovery of vaporized solvents	Feb. 23, 1875	811	266	7	315
162, 443	Whiting, John L., Boston, Mass. Apparatus for securing handles to brushes	Nov. 23, 1875	1086	342	8	901
	Whiting, Joseph E., Harford, Pa. Saw-set	Nov. 30, 1875	1172	370	8	922
	Whiting, Lorrain C., East Saginaw, Mich. Piano-forte pedal attachment	July 13, 1875	338	99	8	61
159, 237	Whiting Manufacturing Company. (See Osborne, Charles, assignor.) (Design.)	Apr. 20, 1875	797	259	7	692
6, 599	Whiting, Philip F. (See Carson & Whiting.)					
159, 730	Whiting, Riley, Berea, Ohio. Cream-saver for reciprocating churns	Jan. 26, 1875	863	281	7	165
166, 436	Whiting, William, deceased, by William G. Russell and Abraham Firth, executors, Boston, Mass., and assignors to Edwin T. Holmes. Electro-magnetic house-alarm. (Re-issue)	Aug. 17, 1875	711	{ 221 222 }	8	317
	Whiting, Xury, Trenton, Wis. Harness-hanging frame	Feb. 9, 1875	459	153	7	256
158, 613	Whitlatch, Isaac J., assignor of one-half interest to Alonzo A. Morrison, Lexington, Ind. Reciprocating churn-dasher	Aug. 3, 1875	239	73	8	233
170, 426	Whitlock, Charles. (See Tappan, William H., assignor.)					
158, 766	Whitlock, Lewis L., Brooklyn, N. Y. Elevator	Jan. 12, 1875	246	83	7	59
160, 494	Whitman, David S., Reading, Pa. Beer-pump	Nov. 23, 1875	1088	342	8	901
169, 935	Whitman, Josiah A. (See Hare, James, assignor.)					
163, 711	Whitman, Lorenzo F., Macomb, Ill. Wagon-bolster	Jan. 12, 1875	379	129	7	77
8, 568	Whitman, Rodney S., et al. (See Sedgwick, Alonzo and Edwin H., assignors.)					
6, 711	Whitman, Stephen F., Philadelphia, Pa. Candy-mixing machine	Mar. 2, 1875	215	74	7	380
160, 985	Whitman, Walter W., et al. (See Sedgwick, Alonzo and Edwin H., assignors.)	Nov. 16, 1875	623	193	8	830
167, 373	Whitman, William H., Scranton, Pa. Potato and seed planter	May 25, 1875	943	299	7	901
165, 697	Whitman, William S., Bangor, Me. Range. (Design.)	Aug. 17, 1875			8	281
158, 555	Whitmore, Albert D., Housatonic, Mass., assignor to Edward W. Vaill. Folding chair. (Reissue)	Oct. 19, 1875	740	242	8	684
170, 425	Whitmore, George E., assignor to New Haven Folding Chair Company, New Haven, Conn. Folding chair	Mar. 16, 1875	683	224	7	460
165, 463	Same..... Carriage-top	Aug. 31, 1875	1164	366	8	396
163, 831	Whitmore, Joseph M., Valparaiso, Ind. Nut-lock	July 20, 1875	562	171	8	110
163, 832	Whitner, Mary A. E., Philadelphia, Pa. Stereoscope	Jan. 5, 1875	177	61	7	33
168, 120	Whitney, Andrew J., Sandusky, Iowa. Submarine rock-chisel	Nov. 23, 1875	1087	342	8	901
169, 936	Whitney, Baxter D., Winchendon, Mass. Band sawing-machine	July 13, 1875	337	98, 99	8	61
169, 129	Whitney Carriage Company, F. A. (See Whitney, Francis W., assignor.)					
165, 902	Whitney, Edward H., Cambridge, assignor to Dover Stamping Company, Boston, Mass. Match-safe	Oct. 26, 1875	800	259	8	700
150, 734	Whitney, Edwin K., Magog, Canada, assignor to George M. and Frank H. Morton, Chicopee, Mass. Hay-loader	July 20, 1875	759	232	8	137
160, 632	Whitney, Eli. (See Connor, David, assignor.)					
166, 237	Whitney, Eli, New Haven, Conn. Breech-loading fire-arm	Mar. 9, 1875	440	146	7	420
165, 465	Whitney, Elisha, Marysville, Cal. Earth-auger	Mar. 9, 1875	346	117	7	408
168, 694	Whitney, Francis W., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Child's carriage	Aug. 3, 1875	47	15	8	206
163, 830	Whitney, Frank E., Cambridgeport, Mass. Paper-weight	July 13, 1875	339	99	8	62
163, 831	Whitney, George A., La Grange, Ohio. Grindstone-frame	Oct. 11, 1875	363	119	8	624
163, 832	Whitney, John H., assignor to Sumner & Whitney Manufacturing Company, Saint Louis, Mo. Grain-binder	May 25, 1875	1043	331	7	915
168, 120	Same..... Harvester-rake	May 25, 1875	1045	331	7	915
169, 936	Same..... Chain and wheel for transmitting power	May 25, 1875	1046	331	7	915
170, 140	Same..... Grain-binder	Sept. 28, 1875	714	{ 225 226 }	8	530
169, 607	Same..... Harvester-rake	Nov. 16, 1875	623	193	8	831
167, 374	Same..... Harvester	Nov. 16, 1875	805	254	8	855
170, 037	Whitney, Levi H., Lowell, Mass. Machine for making excelsior	Nov. 2, 1875	268	87	8	770
158, 876	Whitney, Orlando H., Waukegan, Ill. Rotary pump	Aug. 31, 1875	1164	367	8	396
	Whitney, Paul, New York, assignor to Louis Sanders, Brooklyn, N. Y. Buckle	Nov. 16, 1875	705	223	8	842
	Whitney, Ruel W., assignor to Wilson Sewing-Machine Company, Cleveland, Ohio. Lock for drawers	Jan. 19, 1875	502	169	7	109

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 235	Whitney, Ruel W., Cleveland, Ohio. Leaf-support for sewing-machine tables.	Jan. 26, 1875	862	281	7	165
162, 127	Whitney, Ruel W., assignor to Wilson Sewing-Machine Company, Cleveland, Ohio. Sewing-machine cover.	Apr. 13, 1875	482	159	7	646
165, 641	Whitney, William F., New Paltz, assignor of one-half interest to John C. Suydam, Kingston, N. Y. Spring for vehicles.	July 13, 1875	499	153	8	86
169, 323	Whitney, William F., assignor of one-half interest to Edward Storms, Poughkeepsie, N. Y. Wagon-spring.	Oct. 26, 1875	975	316	8	725
165, 395	Whittemore, Amos, Cambridgeport, Mass. Draft-evenor.	July 6, 1875	242	73	8	41
170, 322	Same. Machine for making split spikes.	Nov. 23, 1875	994	{ 311 312 }	{ 8 8 }	{ 888 888 }
162, 985	Whittemore, David. (See Shaw, Francis M., assignor.)					
169, 218	Whittemore, Robert D., Belvidere, Vt. Invalid-bedstead.	May 4, 1875	234	75	7	772
162, 260	Whittemore, William H., Chelsea, Mass. Composition for artificial stone.	Oct. 26, 1875	876		8	712
	Whitten, Nathan H., assignor to Holyoke Machine Company, Holyoke, Mass. Operating paper-calendering rolls.	Apr. 20, 1875	621	203	7	671
	Whittier Machine Company. (See Crosby, Josiah, assignor.) (Reissue.)					
	Same. (See Perkins, Francis B., assignor.)					
6, 262	Whittingham, Charles. (See Fellows, William C., assignor.)					
159, 992	Whittingham, Harry, Brooklyn, N. Y. Sectional steam-generator.	Jan. 26, 1875	887	288	7	168
164, 242	Same. Joint for steam-generators.	Feb. 16, 1875	722	240	7	296
	Whittington, John, Elida, Ohio. Device for reefing sails.	June 8, 1875	378	129	7	993
	Whittlesey, Franklin. (See Whittlesey, Lee & Franklin.)					
171, 202	Whittlesey, Lee, Sturgis, Mich., and Franklin Whittlesey, Rochester, N. Y. Fruit-drier.	Dec. 14, 1875	227	{ 173 174 }	{ 8 8 }	{ 1027 1027 }
	Whitworth, Thomas S. (See Higgins & Whitworth.)					
168, 360	Wiard, Charles F. (See Wiard, Myron W., assignor.)					
165, 046	Wiard, Edward, assignor to Benjamin F. Avery, Louisville, Ky. Wrench.	Oct. 5, 1875	38	14	8	570
165, 903	Wiard, George, assignor of one-half interest to C. W. Hough, East Avon, N. Y. Casting plow-points.	June 29, 1875	1152	371	7	1119
165, 904	Wiard, George and Thomas, assignors to George Wiard and Charles W. Hough, East Avon, N. Y. Plow.	July 20, 1875	760	232	8	137
	Wiard, Myron W., assignor to self and Charles F. Wiard, Waukegon, Ill. Eyeglass for watch-makers.	July 20, 1875	761	232	8	137
	Wiard, Thomas. (See Wiard, George and Thomas.)					
6, 685	Wickersham, John B., Philadelphia, Pa. Iron fence.	Oct. 5, 1875	229	74	8	596
167, 420	Wickersham, William, Boston, Mass. Nail-cutting machine.	Sept. 7, 1875	38	11	8	411
171, 456	Wickes, James H., New York, N. Y. Refrigerator.	Dec. 21, 1875	775	256	8	1069
	Wickes, Sterling W. (See Deming & Wickes.)					
166, 049	Wickey, Andrew, et al. (See Salzman, Christian H., assignor.)					
	Wickiser, William, El Paso, Ill. Heating-stove.	July 27, 1875	909	281	8	170
169, 392	Wickoff, Nathan S. (See Roberts, Robert, assignor.)					
168, 309	Wicks, George W., New York, N. Y. Manufacture of water-traps.	Nov. 2, 1875	68	20	8	744
169, 608	Wicks, Joseph F., Providence, R. I. Doubling and twisting machine.	Sept. 28, 1875	881	282	8	554
	Wicks, Joseph F., assignor of part interest to Edward P. Chapin, Providence, R. I. Pattern-chain for looms.	Nov. 2, 1875	269	88	8	771
171, 075	Wicks, Joseph F., assignor to Edward P. Chapin, Providence, R. I. Card-grinding machine.	Dec. 14, 1875	396	132	8	1010
162, 130	Wicks, William A., Baltimore, Md. Spice-box.	Apr. 13, 1875	485	160	7	646
170, 976	Wickwire, Chester F., Cortland, N. Y. Corn-popper.	Dec. 14, 1875	309	103	8	999
	Wideman, Joseph. (See Van Horn & Wideman.)					
169, 502	Widemann, Charles, New York, N. Y. Venetian shade.	Nov. 2, 1875	160	53	8	757
166, 439	Widmann, John G., Yonkers, N. Y. Umbrella.	Aug. 3, 1875	241	74	8	233
	Wiecher's Sugar Refining Company, et al. (See Dinkel, George, assignor.)					
	Same. (See Langen, Eugen, assignor.)					
159, 003	Wiedemann, Wilhelm, and Lewis Lindsey, Lawrence, Kans. Toy gun.	Jan. 19, 1875	628	208	7	125
168, 695	Wiegand, Conrad, Virginia City, Nev. Separating gold from other metals.	Oct. 11, 1875	364	120	8	624
163, 827	Wiegand, Emil H., assignor to Joseph Fillemeyer, Philadelphia, Pa. Process of brewing.	May 25, 1875	1041	330	7	915
	Wiegand, S. Lloyd. (See Ball & Wiegand.)					
8, 183	Wiegel, Lawrence, Cincinnati, Ohio, and Joseph Lehnbeuter, Saint Louis, Mo. Show-case.	Mar. 2, 1875			7	345
8, 184	Same. same. (Case B. Design.)	Mar. 2, 1875			7	345
8, 185	Same. same. (Case A. Design.)	Mar. 2, 1875			7	345
	Same. same. (Case C. Design.)	Mar. 2, 1875			7	345
170, 213	Wiel, Lewis P., et al. (See Hussey, John H., assignor.)					
	Wier, Marshall A., London, England. Speed indicator.	Nov. 23, 1875	896	280	8	874
	Wier, Robert G. (See Flinn & Weir.)					
158, 767	Wiesebrook, Frederick W., Brooklyn, N. Y., assignor to Henry W. Shepard and Robert Seaman, New York, N. Y. Gas-regulator.	Jan. 12, 1875	380	129	7	77
159, 731	Wiesebrook, Frederick W., New York, N. Y., assignor to Henry W. Shepard and Robert Seaman. Gas-regulator.	Feb. 9, 1875	460	154	7	256
159, 732	Same. same.	Feb. 9, 1875	461	154	7	256
161, 845	Wiesebrook, Frederick W., assignor to Henry W. Shepard and Robert Seaman, New York, N. Y. Soda-fountain.	Apr. 6, 1875	226	76	7	601
162, 986	Wiesebrook, Frederick W., Brooklyn, N. Y., assignor to Henry W. Shepard and Robert Seaman. Apparatus for drawing effervescent liquids.	May 4, 1875	235	76	7	778
166, 440	Wiesebrook, Frederick W., New York, N. Y., assignor to Henry W. Shepard and Robert Seaman. Soda-water fountain.	Aug. 3, 1875	242	74	8	233
170, 654	Wiestling, George B., Mont Alto, Pa. Dumping-cart.	Nov. 30, 1875	1315	416	8	941
164, 891	Wieterhold, Vallantine, and Alexander Oak, Hamburg, Iowa. Brake-block for wagons.	June 22, 1875	1000	323	7	1092
6, 489	Wiggin, John E., assignor to Hugh H. Mawhinney, Stoneham, Mass. Eyleting-machine.	June 15, 1875	753	246	7	1052
161, 312	Wight, Spencer A., Philadelphia, Pa. Dust-trap for bulk-windows.	Mar. 23, 1875	997	326	7	510
159, 488	Wight, William S., Chardon, Ohio. Engraving-machine.	Feb. 2, 1875	233	76	7	217
162, 261	Wightman, James S., New York, N. Y. Ridge-ventilator.	Apr. 20, 1875	622	203	7	671
158, 660	Wightman, Joseph C., Boston, Mass. Device for holding and mixing stove-polish.	Jan. 12, 1875	292	98	7	65
165, 396	Wignall, John W., Manchester, England. Electric winding mechanism for clock-work.	July 6, 1875	243	73, 74	8	41
166, 238	Wike, John, Phillipsburgh, N. J., assignor to Jacob Russell, New York, N. Y. Bar for horseshoe-blanks.	Aug. 3, 1875	48	16	8	206
171, 460	Wiland, Jeremiah, sr., Myersdale, Pa. Car-dumping apparatus.	Dec. 21, 1875	779	257	8	1069
	Wilber, Frank P. (See Miller, Abraham S., assignor.)					
162, 444	Wilbraham, Thomas, Philadelphia, Pa. Metal-turning lathe.	Apr. 20, 1875	798	260	7	692
159, 238	Wilby, Fritz H., Philadelphia, Pa. Device for making watch-case bezels.	Jan. 26, 1875	864	282	7	165
159, 993	Same. Form for forming watch-case backs.	Feb. 16, 1875	723	240	7	296
	Wilcox, A. C., et al. (See Dodds, Albert G., assignor.)					
6, 637	Wilcox, Alfred W., Worcester, Mass. Organ reed-board.	Sept. 7, 1875	205	64	8	434

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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6, 638	Wilcox, Alfred W., assignor of one-half interest to G. W. Ingalls, Worcester, Mass. Organ reed-board. (Reissue)	Sept. 7, 1875	206	64	8	434
171, 457	Wilcox, Darius, assignor of one-half interest to Isaac P. Howe, Birmingham, Conn. Die for making stay-ends and off-sets for carriages.	Dec. 21, 1875	776	256 257	8	1069
165, 966	Wilcox, Harlow M., assignor of three-fifths interest to J. J. Delatour, E. W. Grafton, and J. A. Hallock, Chicago, Ill. Water-meter	July 27, 1875	833	256	8	159
158, 661	Wilcox, Horace C., assignor to Meriden Britannia Company, West Meriden, Conn. Covered table-ware	Jan. 12, 1875	292	98	7	65
160, 633	Wilcox, Horace C., West Meriden, Conn. Coffee-urn	Mar. 9, 1875	347	117	7	408
165, 142	Wilcox, Horace C., assignor to Meriden Britannia Company, West Meriden, Conn. Match-safe	June 29, 1875	1237	398	7	1131
163, 037	Wilcox, John W., and Robert L. DeJarnatt, Paris, Ky. Blue-grass-seed cleaner	May 11, 1875	301	97	7	794
161, 919	Wilcox, Nelson O., Bennington, Vt. Clasp-hook for advertising display-boards, &c. Wilcox Silver Plate Company. (See Babbitt & Beach, assignors.) Same. (See Babbitt, S. William, assignor.)	Apr. 13, 1875	304	101	7	623
168, 310	Wilcox, Stephen S. (See Carr & Wilcox.) Wilcox, Stephen S., and Charles F. Carr, Adel, Iowa. Cigar	Sept. 28, 1875	884	282	8	554
159, 733	Wilcox, William C., San Francisco, Cal. Steam-engine	Feb. 9, 1875	464	154 155	7	257
162, 445	Wilcox, William W., Middletown, Conn. Bull's-eye	Apr. 20, 1875	798	260	7	692
166, 441	Same. Toy hoop or trundle	Aug. 3, 1875	243	74	8	233
170, 141	Wilcoxson, David J., Milan, Ohio, assignor to self and Asabel J. Mowry. Letter-box	Nov. 16, 1875	809	255	8	856
167, 375	Wild, James, Springfield Township, and Emanuel Hey, Philadelphia, Pa. Spooling and doubling machine	Aug. 31, 1875	1165	367	8	397
160, 559	Wild, Thomas S., Chicago, Ill. Screw-tap	Mar. 9, 1875	285	97	7	398
159, 876	Wilde, Daniel. (See Johnson & Wilde.) Wilder, Amos, Augusta, Me. Apparatus for drying oil-cloth, &c.	Feb. 16, 1875	615	203	7	281
170, 924	Same. Drying apparatus	Dec. 7, 1875	236	81	8	982
171, 458	Wilder, Boluss & Co. (See Boluss, Alfred R., assignor.) Wilder, Charles O., Chicago, Ill. Lifting device for drop-hammers	Dec. 21, 1875	777	257	8	1069
167, 484	Wilder, Elihu, assignor to Ira Cross, Manchester, N. H. Paper-collar and cuff machine	Sept. 7, 1875	88	28	8	419
168, 696	Wilder, Moses L., Meriden, Conn., William H. McNeil, Lancaster, Mass., Salmon H. Wilder, Meriden, and Henry C. Tyler, assignors to Pratt, Read & Co., Deep River, Conn. Mortising-machine	Oct. 11, 1875	367	120	8	624
168, 862	Wilder, Moses G., Meriden, Conn., William H. McNeil, Lancaster, Mass., and Henry C. Tyler, assignors to Pratt, Read & Co., Deep River, Conn. Boring-machine	Oct. 19, 1875	526	172 173	8	655
167, 719	Wilder, R. A., Cressona, Pa. Machine for breaking coal. (Extension)	Feb. 18, 1875	309	98	7	386
162, 987	Wilder, Rufus A., Cressona, Pa. Colliery-plant	Sept. 14, 1875	309	98	8	457
	Wilder, Salmon H., Meriden, assignor to Pratt, Read & Co., Deep River, Conn. Mortising-machine	May 4, 1875	237	76	7	778
	Wilder, Salmon H. (See Wilder, McNeil, Wilder & Tyler.) Wilding, Charles. (See David & Wilding.)					
165, 775	Wiles, Thomas S., assignor of one-half interest to Alonzo P. Adams, Albany, N. Y. Heater for rollers, &c.	July 20, 1875	630	194	8	120
168, 949	Wiley & Russell Manufacturing Company. (See Wells, Frederick E., assignor.) Wiley, Charles J., New York, N. Y. Printing-telegraph	Oct. 19, 1875	606	201	8	667
169, 875	Same. same	Nov. 9, 1875	558	174	8	814
	Wiley, John A., et al. (See Davis & Stone, assignors.) Wiley, John A. (See Downing, Leverett H., assignor.)					
161, 463	Wiley, John A., North Andover, Mass. Machine for manufacturing hydraulic hose	Mar. 30, 1875	1156	373	7	538
166, 442	Wiley, Solon L. (See Grant, John J., assignor.) Wiley, Watson D., assignor of one-half interest to Charles H. Woodruff, Oswego, N. Y. Grain-tally	Aug. 3, 1875	244	74	8	234
159, 239	Wilford, Frederick, Eagle, Wis. Apparatus for walling cisterns	Jan. 26, 1875	865	282	7	165
158, 769	Wilford, John B., assignor to Hezekiah Bradford, Reading, Pa. Feeding coal, &c., from a hopper	Jan. 12, 1875	383	130	7	78
160, 735	Wilford, John B., assignor to Hezekiah Bradford and Herman Hamburger, Philadelphia, Pa. Sash-holder	Mar. 9, 1875	443	146	7	420
168, 697	Same. same	Oct. 11, 1875	370	121	8	625
168, 698	Wilford, John B., assignor to Hezekiah Bradford, Philadelphia, Pa. Jigger	Oct. 11, 1875	370	121	8	625
170, 142	Same. Coal and ore separator	Nov. 16, 1875	810	255	8	856
170, 143	Wilhelm, Henry, and Salathiel F. Leyde, Minerva, Ohio; said Leyde assignor of one-half interest to John F. Leyde. Mill-burr-furrow gage	Nov. 16, 1875	811	255	8	856
171, 459	Wilhelm, Henry, assignor of one-half interest to Fremont D. Davis, Minerva, Ohio. Millstone-driver	Dec. 21, 1875	778	257	8	1069
165, 288	Wilhelm, John, Orrville, Ohio. Butter-preserving firkin	July 6, 1875	131	40	8	27
165, 287	Wilhelm, John C., Petersburg, Pa. Railway-switch	July 6, 1875	129	39	8	26
171, 334	Wilhelmi, Charles A., Boston, Mass. Weather-strip	Dec. 21, 1875	665	219	8	1054
167, 376	Wilhelms, Michael, Chicago, Ill. Cigar-maker's paste-box	Aug. 31, 1875	1166	367	8	397
167, 045	Wilkerson, Basil M., Baltimore, Md. Business-card	Aug. 24, 1875	844	263	8	344
	Wilkin, Félix. (See Denéef & Wilkin.) Wilkin, James S., Chicago, Ill. Vaginal syringe	May 11, 1875	302	97	7	794
163, 038	Wilkins, Alexander G., Meadville, Pa. Hair-cutter's gage	Jan. 19, 1875	629	208	7	125
159, 004	Wilkins, Edward, Chestertown, Md. Insect-destroying compound	July 6, 1875	131	8	27	
165, 289	Wilkins, Horatio, Paris, Ky. Rain-water cut-off	Nov. 2, 1875	272	88	8	771
169, 609	Wilkins, William R. (See Crowthers & Wilkins.) Wilkinson, Gershom, Quincy, Ohio. Cultivator	July 27, 1875	911	281	8	170
166, 050	Wilkinson, John, Baltimore, Md. Cooling-dairy	Jan. 26, 1875	699	230	7	142
159, 055	Wilkinson, John M., Jackson, Tenn. Animal-trap	July 13, 1875	501	153	8	86
165, 643	Same. Converting motion	Aug. 31, 1875	1167	367	8	397
167, 377	Wilkinson, Joseph H., South New Market, N. H. Steam-boiler	Sept. 7, 1875	192	60	8	533
167, 595	Wilkinson, Lewis, assignor to W. G. Morgan, Brooklyn, N. Y. Curling-iron	Mar. 23, 1875	998	326	7	510
161, 313	Wilkinson, Nicholas. (See Stace, William R., assignor.) Wilkinson, Noah, et al. (See Dodd, Robert J., assignor.) Willard, Cyrenius M. (See English & Willard.) Willard, Eugene L. (See Kenney & Willard.)					
165, 642	Willard, Lucius N., Jamestown, N. Y. Extension-table slide	July 13, 1875	500	153	8	86
166, 051	Willard, Owel H., Randolph, N. Y. Milk-cooler	July 27, 1875	912	281	8	170
160, 736	Willard, Phineas, Milford, Mass. Chimney-staging bracket	Mar. 9, 1875	444	147	7	420
	Willard, William A., et al. (See Frederick, William C., assignor.) Willbur, James M., New York, N. Y. Vault-cover	Aug. 10, 1875	373	115	8	260
166, 572	Same. Vault-light	Aug. 10, 1875	374	115	8	260
166, 573	Same. Vault-cover	Aug. 10, 1875	374	115	8	260
166, 574	Willcox, Robert F., Memphis, Tenn. Treadle for sewing-machines. (Reissue)	Aug. 17, 1875	717	222	8	318
6, 602	Willlett, George, Burlington, Vt. Advertising-card rack	May 11, 1875	203	97	7	784
163, 039						

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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159, 370	Willey, Ogden S., Keokuk, Iowa. Level and slope indicator.	Feb. 2, 1875	115	40	7	200
171, 542	Willford, Joseph L., assignor of one-half interest to Ephraim Russell, Minneapolis, Minn. Middlings-purifier.	Dec. 28, 1875	875	287	8	1091
161, 081	Willgoos, Henry, New York, N. Y. Convertible chair and lounge.	Mar. 23, 1875	776	256	7	481
165, 397	Williams, Aaron B. G. A., assignor of one-half interest to Ruel M. Johnson, Goshen, Ind. Bearings for journals.	July 6, 1875	245	74	8	41
164, 244	Williams, Alfred, assignor of one-half interest to Gideon Sibley, Philadelphia, Pa. Dental plugger.	June 8, 1875	380	129	7	993
163, 712	Williams, Alfred D., Boston, Mass. Carpet-stretcher.	May 25, 1875	944	300	7	901
6, 569	Williams, Benjamin H., New York, N. Y. Revolving fire-arm. (Reissue).	Aug. 3, 1875	247	75	8	24
165, 967	Williams, Carmi H., Chicago, Ill. Burglar-alarm.	July 27, 1875	834	257	8	159
167, 596	Williams, Carmi H., assignor of two-thirds interest to Charles D. Williams and Charles N. Parker, jr., Saint Paul, Minn. Peat-machine.	Sept. 7, 1875	193	60, 61	8	433
164, 243	Williams, Carmi H., and Walter W. Alport, Chicago, Ill. Brick-machine.	June 8, 1875	379	129	7	993
167, 378	Williams, Charles D., et al. (See Williams, Carmi H., assignor.) Toilet-powder bottle.	Aug. 31, 1875	1167	368	8	397
166, 239	Williams, Charles F., and John T. Hillhouse, Ansonia, Conn. Bench-plane.	Aug. 3, 1875	49	16	8	206
166, 240	Williams, David F., assignor to Bailey Tool Company, Woonsocket, R. I. Bench-plane.	Aug. 3, 1875	50	16	8	206
170, 614	Williams, David T., Hennepin County, Minn. Grist-alarm.	Nov. 30, 1875	1281	404	8	936
160, 249	Williams, Frances L., et al. (See Burr, Melbourne C., assignor.) Elevated railway.	Feb. 23, 1875	961	{ 316 317 }	7	337
170, 144	Williams, Frank E., Henry E. Cook, and John A. Kline, New York, N. Y. Fastening for buttons, &c.	Nov. 16, 1875	812	256	8	856
169, 664	Williams, George, Mystic River assignor of one-half interest to Frederick A. Holmes, Stonington, Conn. Car-axle box.	Nov. 9, 1875	343	108	8	788
170, 038	Williams, George E., San Francisco, Cal. Lock for fire-arms.	Nov. 10, 1875	705	223	8	842
163, 833	Williams, George H., Albany, N. Y. Folding table.	May 25, 1875	1047	332	7	915
161, 583	Williams, George W., et al. (See Barker, Benjamin F., assignor.) Jig-saw.	Mar. 30, 1875	1274	410	7	553
167, 046	Williams, Giles S., Madison, Wis. Jig-saw.	Mar. 30, 1875	1274	410	7	553
169, 324	Williams, Gordon C., et al. (See Williams, Orrillius T., assignor.) Machine for making crimping-tacks, awls, &c.	Aug. 24, 1875	845	263	8	344
158, 770	Williams, Henry A., West Medway, Mass. Machine for making crimping-tacks, awls, &c.	Oct. 26, 1875	976	316	8	725
160, 443	Williams, Henry M., Cold Water, Mich., assignor to self and C. A. Layton, Wapakonetta, Ohio. Harrow-teeth.	Jan. 12, 1875	384	130	7	78
166, 669	Williams, Horace G., Hamilton, Iowa. Washing-machine.	Aug. 3, 1875	245	75	8	234
162, 131	Williams, Isaac F., Bristol, R. I. Last for rubber-working.	Aug. 10, 1875	460	141	8	272
170, 145	Williams, Isaac H. (See Backofen, Frederick, assignor.) Portable commode.	Apr. 13, 1875	485	160	7	646
158, 556	Williams, James H., Washington, D. C. Locking-device for desk-drawers.	Nov. 16, 1875	812	256	8	856
159, 133	Williams, James W., Charlottesville, Va. Grate.	Jan. 5, 1875	178	61, 62	7	34
168, 072	Williams, John, Dresden, assignor to self and George J. Stonebreaker, Fayetteville, Tenn. Dressing millstones.	Jan. 26, 1875	767	252	7	151
170, 694	Williams, John, Canton, Mass. Tube-cleaner.	Sept. 21, 1875	654	208	8	515
168, 311	Williams, John A. B., assignor to Samuel S. White, Philadelphia, Pa. Holder for tools.	Dec. 7, 1875	38	11	8	956
165, 290	Williams, John C., Olin, Iowa. Harrow.	Sept. 28, 1875	885	282	8	534
169, 070	Williams, John E., assignor to Hiram Stevens, New Haven, Conn. Paper-box machine.	Nov. 16, 1875	706	224	8	842
169, 071	Williams, John I., Bennett Post-Office, Pa. Metal-rolling mill.	July 6, 1875	132	40	8	27
159, 005	Williams, John I., Millvale, Pa. Fore-plate for rolling-mills.	Oct. 19, 1875	720	{ 237 238 }	8	682
164, 117	Williams, John S., et al. (See Thrash, Isaac T., assignor.) Three-high rolling-mill.	Oct. 19, 1875	721	238	8	682
164, 065	Williams, Joseph, Sharpsburgh, Pa. Horseshoe-machine.	Jan. 19, 1875	630	{ 208 209 }	7	125
158, 557	Williams, Joseph S., Riverton, N. J. Anchor.	June 8, 1875	269	.....	7	978
162, 988	Williams, Joseph S., et al. (See Williams, Orrillius T., assignor.) Corn-planter.	June 1, 1875	198	71	7	957
167, 421	Williams, Nora M., et al. (See Williams, Orrillius T., assignor.) Shingle-machine.	Jan. 5, 1875	178	62	7	34
167, 813	Williams, Oliver P., Eugene City, Mo. Corn-planter.	May 4, 1875	238	76	7	778
165, 776	Williams, Orrillius T., Smitland, Ky., assignor to Gordon C., Wiley B., and Nora M. Williams. Shingle-machine.	Sept. 7, 1875	42	12	8	412
161, 464	Williams, Owen J., Buffalo, N. Y. Car-replacer.	Sept. 14, 1875	402	129	8	471
164, 355	Williams, Richard S., New York, N. Y. Preparing dental fillings.	July 20, 1875	632	194	8	120
166, 832	Williams, Robert F., Hampton, N. H. Tree-protector.	Mar. 30, 1875	1158	373	7	538
170, 794	Williams, Robert S., Philadelphia, Pa. Butter-print.	June 8, 1875	492	162	7	1007
159, 784	Williams, Samuel B., assignor of one-half interest to Seymour C. W. Dunlevy, Bridgeport, Ohio. Tram-stave.	Aug. 17, 1875	626	194	8	305
167, 485	Williams, Solomon, Tehuacana, Tex. Corn sheller.	Dec. 7, 1875	127	42	8	967
167, 813	Williams, Sylvester M., San Francisco, Cal. Photographic eye-rest.	Dec. 7, 1875	127	42	8	967
159, 132	Williams, White & Co. (See Heffley, William H., assignor.) (Reissue.)	Feb. 16, 1875	529	176	7	970
167, 485	Williams, Wiley B., et al. (See Williams, Orrillius T., assignor.) Land-roller.	Jan. 26, 1875	766	.....	7	151
159, 006	Williams, William L. (See Storm, William M., assignor.) Washing compound or fluid.	Sept. 7, 1875	90	.....	8	419
159, 877	Williams, William S., Middletown, Del. Washing compound or fluid.	Jan. 19, 1875	631	209	7	125
160, 495	Williams, William W., Houston, Tex. Process of coloring enameled photographs.	Feb. 16, 1875	616	204	7	282
159, 371	Williamson, Daniel, Sunbury, Pa. Sewing-machine.	Mar. 3, 1875	216	74, 75	7	380
170, 146	Williamson, David, Greenville, N. J. Mechanical movement.	Feb. 2, 1875	116	40, 41	7	200
169, 876	Williamson, Jacob F., and James H. Sorey, Harber Township, Ill. Ditching-machine.	Nov. 16, 1875	814	{ 256 257 }	8	856
165, 905	Williamson, Samuel D., Milford, Ind. Double plow.	Nov. 9, 1875	559	174	8	814
160, 986	Williamson, William C., Newbern, Tenn. Fire-place screen.	July 20, 1875	762	233	8	137
164, 953	Williamson, William H., assignor of one-half interest to Samuel C. Talcott, Ashtabula, Ohio. Buckle.	Mar. 16, 1875	684	224	7	460
160, 804	Willie, William T., Brenham, Tex., assignor of one-half interest to William H. Thacker. Machine for distributing compounds for destroying cotton-worms.	June 29, 1875	1076	346	7	1109
168, 312	Willig, Fredreck, Joliet, Ill. Expansible bit.	Mar. 16, 1875	531	172	7	439
165, 777	Willis, Augustus L., Philadelphia, Pa. Ice-creper.	Sept. 28, 1875	885	283	8	554
164, 701	Willis, Charles P., Philadelphia, Pa. Ratchet carriage-jack.	Sept. 28, 1875	885	283	8	554
	Willis, Joseph W. (See Peet, Poland & Willis.) Loom-shuttle.	July 20, 1875	633	194	8	120
	Willis, Newiel J., Cambridgeport, assignor to self and William R. Potter, Taunton, Mass. Loom-shuttle.	June 22, 1875	826	269	7	1070
	Willman, Jacob. (See Benson & Willman.)					

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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158,558	Willmot, George R., West Meriden, Conn. Horse-tail protector.....	Jan. 5, 1875	179	62	7	34
162,446	Willoughby, James D., Washington, D. C. Governor for steam-engines.....	Apr. 20, 1875	799	260	7	692
	Willoz, Auguste. (See Brand & Willoz.)					
164,118	Wills, Charles, Attleborough, Mass. Bracelet.....	June 8, 1875	269	92	7	978
164,119	Same..... Watch-chain swivel.....	June 8, 1875	270	92	7	978
6,712	Wills, Harry A., Vergennes, Vt., assignor to Julia A. Wills and Lucy S. Kingsland. Machine for finishing horseshoe-nails..... (Reissue.)	Oct. 19, 1875	740	242	8	684
6,713	Same..... Art of finishing horseshoe-nails..... (Reissue.)	Oct. 19, 1875	742	.....	8	684
170,793	Wills, Harry A., assignor to Julia A. Wills, Chicago, Ill., and Lucy S. Kingsland, Burlington, Vt. Machine for finishing horseshoe-nails..... (Reissue.)	Dec. 7, 1875	127	42	8	967
167,864	Willson, Frederick M., and William Vassie, Hamilton, Canada. Lamp-bracket for sewing-machines.....	Sept. 21, 1875	463	146	8	487
164,702	Willson, William B., et al. (See Mackrell, William S., assignor.)					
	Wilmarth, Moses P., assignor to James Davis & Son, Pawtucket, R. I. Belt-twisting apparatus.....	June 22, 1875	827	269	7	1070
169,325	Wilmer, Samuel L., et al. (See Harwood, George D., assignor.)					
170,925	Wilmington, William, Toledo, Ohio. Car-wheel chill.....	Oct. 26, 1875	977	317	8	725
159,489	Same..... Method of casting car-wheels.....	Dec. 7, 1875	238	81	8	982
	Wilmot, Byron, Dallas, Tex. Flat-iron heater.....	Feb. 2, 1875	234	76	7	217
159,007	Wilmot Manufacturing Company. (See Wilmot, Samuel R., assignor.)					
162,732	Wilmot, Samuel R., Bridgeport, Conn. Lightning-rod.....	Jan. 19, 1875	631	209	7	125
164,892	Same..... Apparatus for rolling metallic strips or ribbons.....	Apr. 27, 1875	1091	346	7	737
	Wilmot, Samuel R., assignor to Wilmot Manufacturing Company, Bridgeport, Conn. Mode of making sheet-metal rings.....	June 22, 1875	1001	333	7	1092
166,670	Wilmot, Samuel R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Lamp-burner.....	Aug. 10, 1875	461	141	8	272
160,044	Wilson, Albert L., Broadway, N. J. Book-holder.....	Feb. 23, 1875	787	259	7	312
168,950	Wilson, Anson, Cascade, Minn. Windmill.....	Oct. 19, 1875	606	201	8	667
164,894	Wilson, Baker D., Shreveport, La. Shot-cartridge.....	June 22, 1875	1002	324	7	1092
161,847	Wilson, Benjamin J., Atlanta, Ga. Cotton and hay press.....	Apr. 6, 1875	228	76	7	601
159,555	Wilson, Charles D., and Edson Gerry, Elmwood, Ill. Compound for picture-frames.....	Feb. 9, 1875	311	101	7	234
163,345	Wilson, Charles E., New York, N. Y. Composition for lining furnaces.....	May 18, 1875	604	.....	7	849
167,965	Wilson, David, jr., and Thomas Hall, Lawrence, Mass.; said Wilson assignor to said Hall. Whirl for spinning-machines.....	Sept. 21, 1875	538	173	8	499
166,833	Wilson, Ebenezer, Otto, N. Y. Faucet.....	Aug. 17, 1875	626	{ 194 195 }	{ 8 8 }	{ 306 306 }
	Wilson, Edward K. (See Saunders, Edward M., assignor.)					
158,451	Wilson, F. Cortez, et al. (See Strickler, Walter C., assignor)..... (Reissue.)					
	Wilson, Francis T., assignor to self and E. J. Bartlett, Ames, Iowa. Barbed stock-fence.....	Jan. 5, 1875	85	29	7	21
162,447	Wilson, Fred. R. (See Redgrave, Alphonzo W., assignor.)					
167,720	Wilson, George, New York, N. Y. Adjustable iron chair.....	Apr. 20, 1875	801	260	7	692
159,008	Wilson, George R., and George Smithson, Washington, D. C. Brick-machine.....	Sept. 14, 1875	311	99	8	457
	Wilson, George W., assignor of one-half interest to William and William C. Homan, West Meriden, Conn. Filtering-faucet.....	Jan. 19, 1875	632	209	7	125
162,511	Wilson, Harrison H., and William H. Rolfe, Wabash, Ind. Stove-pipe damper.....	Apr. 27, 1875	881	282	7	711
164,893	Wilson, Henry H. (See Hall, Harry, assignor.)					
6,555	Wilson, Hiram J., Mason, Mich. Hame-fastener..... (Reissue.)	June 22, 1875	1002	323	7	1092
166,052	Wilson, Jacob W., Somerford, Ohio. Rotary road-scraper.....	July 20, 1875	775	237	8	140
	Wilson, Jacob W., Somerford, assignor to self and Addison Shanklin, London, Ohio. Road-scraper.....	July 27, 1875	913	282	8	170
161,370	Wilson, James, Boston, Mass. Plate-printing press.....	Mar. 30, 1875	1068	347	7	527
163,834	Wilson, James A., and Edmond D. Noble, Spring Lake, Mich. Saw-filing machine.....	May 25, 1875	1048	332	7	915
165,906	Wilson, James G., Millerton, N. Y. Elevated railway.....	July 20, 1875	762	233	8	138
159,878	Wilson, James L., Calhoun, Ga. Churn.....	Feb. 16, 1875	617	204	7	282
161,848	Wilso, John A., Chicago, Ill. Sheet-metal can.....	Apr. 6, 1875	228	76	7	601
168,073	Same..... Process of preserving meat.....	Sept. 21, 1875	655	.....	8	518
160,134	Wilson, John D., Round Grove, Kans. Animal-hopple.....	Feb. 23, 1875	861	285	7	323
162,449	Wilson, John G., assignor of one-fourth interest to Charles W. Elrod, Coatesville, Ind. Car-coupling.....	Apr. 20, 1875	802	261	7	693
166,325	Wilson, John M., Philadelphia, Pa. Air-heating furnace.....	Aug. 3, 1875	127	40	8	217
167,597	Wilson, John M., Nashua, N. H. Corn-shelling implement.....	Sept. 7, 1875	194	61	8	433
162,448	Wilson, John N., Carthage, Mo. Farm-gate.....	Apr. 20, 1875	801	261	7	692
163,429	Wilson, John T., Pittsburgh, Pa. Car-coupling.....	May 18, 1875	671	215	7	858
170,977	Wilson, Joseph A., Chester, Vt. Wringer.....	Dec. 14, 1875	309	103	8	999
169,754	Wilson, Joseph E., Brazoria, Tex. Screw-propulsion.....	Nov. 9, 1875	436	138	8	800
164,954	Wilson, Joseph S., Philadelphia, Pa. Air-port for vessels.....	June 29, 1875	1076	346	7	1109
158,771	Wilson, Joseph W., Warsaw, Ill. Middlings-purifier.....	Jan. 12, 1875	385	130	7	78
168,547	Wilson, Liston B., Caldwell, Ohio. Bottling apparatus.....	Oct. 5, 1875	211	69	8	594
	Wilson Packing Company. (See Wilson, William J., assignor)..... (Reissue.)					
6,214	Wilson, Robert, Ithaca, N. Y. Horse hay-rake..... (Reissue.)	Jan. 5, 1875	198	67, 68	7	38
164,356	Same..... same.....	June 8, 1875	492	162	7	1007
168,202	Wilson, Robert, McLeansville, N. C. Water-wheel.....	Sept. 28, 1875	792	251	8	541
159,056	Wilson, Samuel J., Farmington, Ill. Stove-polish.....	Jan. 26, 1875	700	.....	7	142
	Wilson Sewing Machine Company. (See Whitney, Ruel W., assignor.)					
168,439	Wilson, Stephen D., assignor of one-half interest to William Stein, Des Moines, Iowa. Steam-hammer.....	Oct. 5, 1875	103	36	8	580
163,040	Wilson, Thomas, Belleville, N. J. Sash-fastener.....	May 11, 1875	303	97	7	794
164,066	Wilson, Thomas, assignor of one-half interest to George W. Fish, Kalamazoo, Mich. Steam-brake.....	June 1, 1875	198	72	7	958
	Wilson, William. (See Curtiss, Marshall S., assignor.)					
6,603	Wilson, William, Cincinnati, Ohio. Corder for sewing-machines..... (Reissue.)	Aug. 17, 1875	717	222	8	318
169,130	Wilson, William B., Jefferson County, Kentucky. Cistern-filter and water-separator.....	Oct. 26, 1875	800	259	8	700
6,370	Wilson, William J., Chicago, Ill., assignor, by mesne assignments, to Wilson Packing Company. Process for preserving and packing cooked meats..... (Reissue.)	Apr. 6, 1875	238	.....	7	602
166,671	Wilson, William W., Parkville, Mo. Egg-tester.....	Aug. 10, 1875	462	142	8	272
169,937	Wilton, Benjamin A., West New Brighton, N. Y. Feed-cutter.....	Nov. 16, 1875	624	193	8	831
163,835	Wimpee, Mathew A. J., Rome, Ga. Railway-rammer head.....	May 25, 1875	1049	332	7	916
	Winans, Thomas. (See Winans, William L. and Thomas.)					
162,450	Winans, Thomas, Baltimore, Md. Pneumatic action for organs.....	Apr. 20, 1875	803	261	7	693
161,314	Winans, Thomas, and Thomas D. Whistler, Baltimore, Md. Fishing-reel.....	Mar. 23, 1875	998	327	7	510
161,372	Winans, William L., London, England, and Thomas Winans, Baltimore, Md. Construction of spindle-shaped vessels.....	Mar. 30, 1875	1074	348	7	527
159,240	Winchell, James B., Benton Harbor, Mich. Axle-box and sleeve.....	Jan. 26, 1875	866	282	7	165
6,620	Winchester, Edward S., Boston, Mass. Rock-drill..... (Reissue.)	Aug. 24, 1875	964	300	8	360
159,241	Same..... Supporting-clamp for rock-drilling machines.....	Jan. 26, 1875	867	282	7	165

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159, 242	Winchester, Edward S., Boston, Mass. Rock-drilling machine.....	Jan. 26, 1875	867	283	7	166
161, 999	Same..... Check-valve for air-compressors	Apr. 13, 1875	366	123	7	631
165, 646	Same..... Rock-drilling machine	July 13, 1875	504	154	8	86
	Winchester, George C. (See Bingham, Osmore A., assignor)..... (Reissue.)					
	Same..... (See Briggs, William, assignor.)					
165, 434	Winchester, George C., Ashburnham, Mass. Stool.....	July 13, 1875	304	89	8	57
	Winchester Repeating Arms Company. (See Salisbury & Wells, assignors.)					
171, 203	Windram, William J., Boston, Mass. Shoe-tongue	Dec. 14, 1875	527	174	8	1037
164, 501	Winey, Benjamin F., Donahue, Iowa. Trace-buckle	June 15, 1875	636	206	7	1035
168, 074	Winfield, Henry, and William P. Flynn, Pantego, N. C. Cultivator	Sept. 21, 1875	656	208	8	515
161, 724	Winfield, William S., Cross Plains, Tenn. Ventilating attachment to hearths	Apr. 6, 1875	114	41	7	585
	Wingard, Edwin V. (See Rader, Stephen D., assignor)..... (Reissue.)					
166, 575	Wingate, Henry C., New Orleans, La. Weighing-scales.....	Aug. 10, 1875	375	115	8	260
163, 956	Wingate, John L., Mooers Forks, N. Y. Trace-fastening for whiffletrees.....	June 1, 1875	98	33	7	944
164, 628	Wingrave, John, Chicago, Ill. Construction of walls of buildings.....	June 15, 1875	741	242	7	1050
165, 645	Winkler, Egbert, Brooklyn, N. Y. Muff.....	July 13, 1875	503	154	8	86
167, 146	Winkler, Gustavus R., Williamsport, Pa. Disk steam-engine	Aug. 24, 1875	941	294	8	358
160, 859	Winne, Henry, Shelburne, Mass. Lock for doors, &c.....	Mar. 16, 1875	372	186	7	445
161, 315	Same..... same	Mar. 23, 1875	1000	327	7	510
161, 371	Same..... same	Mar. 30, 1875	1069	348	7	527
165, 644	Same..... Fastening lock-shells to bolt-cases.....	July 13, 1875	502	{ 153 } 154	8	86
	Winn Lock Company. (See Shepardson, Henry S., assignor.)					
161, 849	Winne, Joshua J., and William H. Kent, Lockport, N. Y., assignors of one-half interest to Remington James and Frank A. Bowdoin. Vegetable-slicer	Apr. 6, 1875	229	77	7	601
168, 699	Winer, Sino E., Peru, Ill. Draft-equalizer.....	Oct. 11, 1875	371	121	8	625
	Winship, Leonard, et al. (See Crosby, Chauncey O., assignor.)					
6, 401	Winslow, A. P., Cleveland, Ohio. Car-roof	Apr. 27, 1875	1098	347	7	738
	Winslow, Edward F., et al. (See Salisbury, Leonard B., assignor.)					
	Winslow, George S., et al. (See Salisbury, Leonard B., assignor.)					
166, 241	Winslow, Hezekiah, Portland, Me. Reel for fishing-rods.....	Aug. 3, 1875	51	16	8	206
164, 667	Winslow, James H., assignor of two-thirds interest to May & Withey, Lynn, Mass. Cake-cutter.....	June 22, 1875	790	259	7	1065
164, 357	Winslow, Joseph L., Deering, Me. Device for feeding air to furnaces	June 8, 1875	493	{ 162 } 163	7	1008
161, 584	Winslow, Stewart, Rutherford Park, N. J., and Theodore Goldsmith, New York, N. Y. Coal and other elevators	Mar. 30, 1875	1275	410	7	553
	Winsor, Alexander. (See Hamblin, Silvanus and Stephen M., assignors.)					
	Winter & Ball. (See Ligibel, Adolphus, assignor.)					
163, 430	Winter, Daniel R., Newton, Iowa. Gage for shaping wagon-axles	May 18, 1875	672	215	7	859
159, 824	Winter, Henry, Jersey City, N. J. Umbrella-rib.....	Feb. 9, 1875	360	120	7	242
166, 053	Winter, Henry, assignor of one-half interest to William P. Hurtz, Cincinnati, Ohio. Clothes-drier	July 27, 1875	913	282	8	170
171, 076	Winter, Henry, Jersey City, N. J. Umbrella-tip cup	Dec. 14, 1875	398	132	8	1011
161, 316	Winter, Louis F., assignor of one-half interest to Michael Madden, New York, N. Y. Ash-can receptacle	Mar. 23, 1875	1005	327	7	510
164, 789	Winterlich, Hans, Chicago, Ill. Stove.....	June 22, 1875	900	293	7	1060
163, 346	Winters, Elhanan C., Coleta, Ill. Revolving cultivator	May 18, 1875	604	193	7	849
159, 372	Winters, John B., Attica, Mich. Car-coupling	Feb. 2, 1875	117	41	7	200
167, 966	Winters, Joseph E., Fincastrle, Ohio. Farm-fence	Sept. 21, 1875	539	173	8	499
160, 045	Winterwerber, Henry, Offenbach, Germany. Machine for packing tobacco.....	Feb. 23, 1875	788	260	7	312
168, 075	Winton, Albert, assignor of two-thirds interest to Ephraim G. Fishburne, Middletown, and Jacob S. Engle, Palmyra, Pa. Furnace-grate for steam-generators	Sept. 21, 1875	657	209	8	515
	Winton, Charles H. (See McOmber, Sanford W., assignor.)					
166, 576	Winton, Charles H., Danbury, Conn. Hat and coat hook	Aug. 10, 1875	376	116	8	260
166, 175	Winzer, George, and Richard D. Bland, Saint Louis, Mo. Water-meter.....	July 27, 1875	1036	319	8	188
163, 288	Wireman, Francis C., New York, N. Y. Cradle	May 11, 1875	532	172	7	824
166, 911	Wirsching, Alois, Brooklyn, N. Y. Printing-telegraph	Aug. 17, 1875	702	218	8	315
	Wirt, Dian B. (See Ballard & Wirt.)					
	Wirtz, Charles. (See Heide & Wirtz.)					
164, 502	Wise, Jesse, and Peter Lane, Elwood, Ind. Washing-machine.....	June 15, 1875	637	206	7	1035
161, 082	Wiser, Clinton B., Butler, Pa. Coupling-joint for oil-well drills	Mar. 23, 1875	777	256	7	481
165, 907	Wiser, David, and Henry Schmieders, Fort Wayne, Ind. Spark-arrester	July 20, 1875	763	233	8	138
163, 713	Wiser, Solomon J., Bowmansville, N. Y. Thill-coupling	May 25, 1875	945	300	7	901
171, 462	Wishard, Stewart, Gurley's Tank, Ala. Corn-planter.....	Dec. 21, 1875	780	258	8	1069
171, 461	Wishart, Aladan S., Lumberton, N. C. Drill and fertilizer-distributor	Dec. 21, 1875	779	258	8	1069
169, 219	Wishart, James M., Boone, Iowa. Compound for removing boiler-incrustations.....	Oct. 26, 1875	877	.....	8	712
162, 132	Wisner, James E., Friendship, N. Y. Horse hay-rake	Apr. 13, 1875	485	161	7	646
	Wissen, Joseph. (See Schwager & Wissen.)					
164, 895	Wissler, Georg, Cincinnati, Ohio. Sewing-machine binder	June 22, 1875	1003	324	7	1092
164, 896	Same..... Binder attachment for sewing-machines.....	June 22, 1875	1004	324	7	1092
	Wiswall, Henry M. (See Miller, William, assignor.)					
6, 398	Wiswall, Samuel, Hyde Park, Vt., assignor, by mesne assignments, to Bailey Wringing Machine Company, Woonsocket, R. I. Extension wash-bench	Apr. 20, 1875	827	266	7	696
159, 009	Wiswell, Theodore L., Olathe, Kans. Buckle	Jan. 19, 1875	633	210	7	126
163, 559	Same..... Portable shed	May 18, 1875	797	253	7	874
159, 994	Withers, Joseph N., Philadelphia, Pa. Fastener for the meeting-rails of sashes	Feb. 16, 1875	723	241	7	296
	Withey, Amos E., et al. (See Smith, Aaron F., assignor)..... (Reissue.)					
170, 927	Withington, Charles B., Janesville, Wis. Mechanical movement	Dec. 7, 1875	239	82	8	982
162, 733	Witman, John A., and George W. Seibert, Middletown, Conn. Millstone-dress	Apr. 27, 1875	1092	346	7	737
170, 926	Witmer, Daniel W., Springfield, Ill. Expansion-bucket for chain-pumps	Dec. 7, 1875	239	82	8	982
162, 209	Witmer, John M., Manor Township, Pa. Carriage-axle lubricator	Apr. 20, 1875	574	188	7	665
167, 598	Witmer, Samuel H., Cincinnati, Ohio. Railway-rail joint.....	Sept. 7, 1875	195	61	8	433
161, 920	Witmer, Tobias, Buffalo, N. Y. Combined table and slicer	Apr. 13, 1875	305	{ 101 } 102	7	623
165, 968	Same..... Green-corn cutter.....	July 27, 1875	835	257	8	159
171, 463	Witsil, George L., Beverly, N. J. Can-opener	Dec. 21, 1875	781	258	8	1069
8, 283	Witteck, Charles, New York, N. Y. Spoon or fork..... (Design).....	Apr. 20, 1875	.....	.....	7	651
160, 560	Witter, Henry M., Worcester, Mass. Surcingle	Mar. 9, 1875	286	97	7	399
160, 987	Same..... same	Mar. 16, 1875	684	225	7	461
170, 458	Witter, Henry M., assignor to George Compton, Worcester, Mass. Loom for weaving webbing	Nov. 30, 1875	1131	357	8	916
161, 582	Wittingham, Harry, New York, N. Y. Sectional steam-boiler	Mar. 30, 1875	1274	409	7	553
160, 250	Wittmer, Xavier, Etna, Pa. Ice-elevator.....	Feb. 23, 1875	962	317	7	337

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161, 725	Woerd, Charles V., assignor to American Watch Company, Waltham, Mass. Stem-wind- ing watch	Apr. 6, 1875	114	41	7	586
	Woerle, William. (See Laubser & Woerle.)					
162, 512	Wohlgemuth, Friedrich, New York, N. Y. Cartridge-loading device	Apr. 27, 1875	882	282	7	711
168, 548	Wolcott, Christopher C., Washington, D. C. Electrical marine-engine governor	Oct. 5, 1875	212	69	8	594
163, 289	Wolcott, Henry E., Syracuse, N. Y. Tank-can for oils	May 11, 1875	533	172	7	824
159, 734	Wolf, Abraham N., Allentown, Pa. Water-wheel	Feb. 9, 1875	465	155	7	257
168, 760	Wolf, David, Avon, Pa. Mowing-machine	Oct. 11, 1875	371	121	8	625
	Wolf, Frederick W. (See Weinig, Paul, assignor.)					
165, 398	Wolf, Horace S., South Bend, Ind. Process for cleansing gas-retorts	July 6, 1875	245	.....	8	42
166, 672	Wolf, Jacob, Philadelphia, Pa. Oscillating engine	Aug. 10, 1875	463	142	8	272
165, 047	Wolf, Ufford S., Otto, Ind. Wicker-basket	June 29, 1875	1153	372	7	1119
159, 995	Wolfe, Daniel J., and Gustavus A. Lilliendahl, Jersey City, N. J. Torpedo-filling machine	Feb. 16, 1875	724	241	7	296
167, 814	Same..... Torpedo-envelope machine	Sept. 14, 1875	463	129	8	471
6, 217	Wolfe, Gurdon G., Troy, N. Y. Reservoir cooking-stove (Reissue)	Jan. 12, 1875	387	131	7	78
6, 218	Same..... same (Reissue)	Jan. 12, 1875	388	132	7	78
6, 219	Same..... same (Reissue)	Jan. 12, 1875	389	132	7	78
8, 766	Wolfe, Gurdon G., Nicholas S. Vedder, and Francis Ritchie, assignors to Hicks & Wolfe, Troy, N. Y. Parlor-stove (Design)	Nov. 2, 1875	.....	.....	8	729
8, 767	Wolfe, Gurdon G., and Francis Ritchie, assignors to Hicks & Wolfe, Troy, N. Y. Range (Design)	Nov. 2, 1875	.....	.....	8	729
8, 769	Wolfe, Gurdon G., Nicholas Vedder, and Francis Ritchie, assignors to Hicks & Wolfe, Troy, N. Y. Cooking-stove (Design)	Nov. 2, 1875	.....	.....	8	729
159, 735	Wolfe, Gurdon G., Troy, N. Y. Ash-sifter for stoves	Feb. 9, 1875	466	155 156	7	257
164, 629	Same..... Reservoir cooking-stove	June 15, 1875	742	242 243	7	1050
164, 630	Same..... Portable range	June 15, 1875	744	243 244	7	1051
158, 416	Wolfe, John N., Lancaster, Ohio. Corn-sheller	Jan. 19, 1875	449	149	7	102
170, 214	Wolfenden, James, New Bedford, Mass. Shuttle and shuttle-stop for looms	Nov. 23, 1875	897	280	8	875
	Wolfenden, Shore & Co. (See Goodyear, Robert B., assignor.)					
169, 877	Wolff, Auguste D. B., Paris, France. Piano attachment	Nov. 9, 1875	560	175	8	814
	Wolff, Julius. (See Sellmann, Reessing & Wolff.)					
6, 430	Wolffinger, Francis R., Chicago, Ill. Sewing-machine table (Reissue)	May 11, 1875	548	175	7	826
163, 347	Same..... same	May 18, 1875	605	193	7	849
158, 417	Wolffington, William P., Louisville, Ky. Harness-tree	Jan. 19, 1875	450	150	7	102
170, 459	Wolfley, Lewis, New Orleans, La. Car-starter	Nov. 30, 1875	1133	357	8	916
162, 133	Wolfrom, Eli J., Washingtonville, Ohio, assignor to self and Maria E. Whiteside, Marengo, Ill. Ironing-table	Apr. 13, 1875	487	161	7	646
159, 996	Wolston, Philip N., Springfield, Ohio, assignor of one-half interest to B. C. Converse. Clothes-wringer	Feb. 16, 1875	725	241	7	296
	Woller, John. (See Ott & Woller.)					
158, 662	Wonderly, Alexander, Palisade, Nev. Car-coupling	Jan. 12, 1875	293	98	7	65
162, 134	Wood, Abiel, Brooklyn, N. Y. Oil-can	Apr. 13, 1875	487	161	7	646
166, 673	Wood, Albert A., Manlius, N. Y. Hollow auger	Aug. 10, 1875	464	142	8	272
166, 674	Wood, Albert A., Syracuse, N. Y. Hollow auger	Aug. 10, 1875	465	143	8	272
164, 897	Wood, Aurin, Worcester, Mass. Machine for grinding pulleys	June 22, 1875	1005	324 325	7	1092
164, 067	Wood, Charles B., New York, N. Y. Fifth-wheel	June 1, 1875	199	72	7	958
167, 147	Wood, Daniel, Arbel, Mo. Brick-machine	Aug. 24, 1875	943	294	8	358
165, 778	Wood, Daniel C., Quincy, Ill. Ice-hook	July 20, 1875	633	194	8	120
	Wood, E. Morgan, et al. (See Archer, William S., assignor.)					
161, 317	Wood, Enoch, assignor of one-half interest to J. H. Legge, Pittsburgh, Pa. Puddling- furnace	Mar. 23, 1875	1006	328	7	511
159, 535	Wood, Fraser, Bangor, and Charles H. Wentworth, South Orrington, Me. Fender for vessels	Feb. 9, 1875	296	96	7	232
	Wood, George. (See Kivlan & Wood.)					
167, 721	Wood, George F., Philadelphia, Pa. Band-saw	Sept. 14, 1875	312	99	8	457
163, 957	Wood, George W., assignor to Hetty W. Wood, New York, N. Y. Exercising apparatus	June 1, 1875	98	33	7	944
8, 394	Wood, Henry A., Bangor, Me. Range (Design)	June 15, 1875	.....	.....	7	1014
152, 875	Wood, Hermon G., Sharon, Pa. Rotary engine	May 4, 1875	125	41	7	763
	Wood, Hetty W. (See Wood, George W., assignor.)					
	Wood, John B. (See Sands, Charles J., assignor.)					
159, 292	Wood, John B., Poultney, Vt. Elastic pad for horseshoes	Feb. 2, 1875	45	16	7	191
158, 818	Wood, John W., and Edward A. Drago, Valparaiso, Ind. Check-rein holder	Jan. 19, 1875	451	150	7	102
	Wood, Joseph, et al. (See Johnson, James, assignor.)					
	Wood, Julian, et al. (See O'Neill, John, assignor.)					
	Wood Mowing and Reaping Machine Company, Walter A. (See Dodenhoff, Israel, as- signor) (Reissue.)					
	Same..... (See Henderson, Andrew A., assignor) (Reissue.)					
	Same..... (See Rosebrook, John M., assignor) (Reissue.)					
	Same..... (See Wood, Bowhay & Rosebrook, assignors.)					
158, 663	Wood, Nathaniel S., Boone County, Mo. Revolving cultivator	Jan. 12, 1875	294	99	7	65
166, 176	Wood, Newton D., and Lee Taylor, Ballston Spa, N. Y. Horse hay-rake	July 27, 1875	1036	319	8	188
160, 561	Wood, Orville K., West Chazy, N. Y. Grain-separator	Mar. 9, 1875	287	97	7	399
	Wood, Robert. (See Borel, George W., assignor.)					
	Same..... (See Harwood & Wood) (Design)					
171, 640	Wood, Samuel, assignor to Excelsior Stove Works, Quincy, Ill. Stove	Dec. 28, 1875	984	318	8	1105
158, 614	Wood, Stephen W., Cornwall, N. Y. Machine for heading metallic cartridge-shells	Jan. 12, 1875	248	83, 84	7	59
169, 878	Same..... Manufacture of metal tubing	Nov. 9, 1875	561	175	8	815
163, 619	Wood, Thomas T., assignor to George B. Griffen, Chicago, Ill. Machine for making wrought-nail blanks	May 25, 1875	869	274	7	891
163, 620	Same..... Machine for heading wrought nails	May 25, 1875	871	274	7	891
	Wood, Walter A., et al. (See Henderson, Andrew A., assignor) (Reissue.)					
159, 879	Wood, Walter A., Hoosick Falls, N. Y. Harvester	Feb. 16, 1875	618	204	7	282
168, 951	Wood, Walter A., Egbert Bowhay, and John M. Rosebrooks, assignors to Walter A. Wood Mowing and Reaping Machine Company, Hoosick Falls, N. Y. Mowing-machine	Oct. 19, 1875	607	201	8	667
163, 714	Wood, William, Canton, Ohio. Bed-bottom	May 25, 1875	946	300	7	901
158, 559	Wood, William A., Albany, N. Y. Journal for harvester-frames	Jan. 5, 1875	180	62, 63	7	34
163, 127	Same..... Harvester-rake	May 11, 1875	379	123	7	804
163, 128	Same..... Mowing-machine	May 11, 1875	381	123	7	805
162, 135	Wood, William E., Baltimore, Md. Heating-furnace	Apr. 13, 1875	488	161	7	646
164, 503	Wood, William H., Trenton, N. J. Weather-threshold	June 15, 1875	637	206	7	1035
	Wood, William J., et al. (See Chapman, Luke, assignor.)					
160, 499	Wood, William T., Mount Juliet, Tenn. Lamp-extinguisher	Mar. 2, 1875	222	76	7	381

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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166, 578	Woodbury, Andrew H., Ashuelot, N. H. Wool-carding engine.....	Aug. 10, 1875	377	116	8	261
161, 726	Woodbury, Charles T. (See Peasley, James H., assignor.)					
166, 444	Woodbury, George E., Cambridge, Mass. Planing-machine.....	Apr. 6, 1875	115	41, 42	7	586
168, 440	Woodbury, Leander S., assignor of two-thirds interest to B. S. Nichols and F. G. Coggin, Burlington, Vt. Planing-machine.....	Aug. 3, 1875	247	75	8	234
	Woodhouse, John V., Bunker Hill, Ill. Furnace for smelting lead.....	Oct. 5, 1875	104	36	8	520
	Woodhouse, William. (See Park & Woodhouse.)					
162, 595	Woodmansee, Francis A. (See Carroll, Thomas, assignor.)					
	Woodruff, Charles E., Carlton, N. Y. Stove-pipe shelf.....	Apr. 27, 1875	950	305	7	720
	Woodruff, Charles H. (See Wiley, Watson D., assignor.)					
160, 135	Woodruff, F. B. (See Peak, Thomas T., assignor.)					
	Woodruff, George J., Norristown, Pa. Railway-switch.....	Feb. 23, 1875	862	285	7	323
	Woodruff, John E. (See Pride, Orlando S., assignor.)					
168, 701	Woodruff, John W., Jollytown, Pa. Device for transmitting power.....	Oct. 11, 1875	372	122	8	625
160, 496	Woodruff Joseph, Rahway, N. J. Damper for furnaces.....	Mar. 2, 1875	217	75	7	380
160, 497	Same.....	Mar. 2, 1875	219	75	7	380
160, 498	Same..... Draft-regulator.....	Mar. 2, 1875	219	76	7	380
	Woods, Charles E. (See Schwartz & Woods.)					
	Woods, Edward P., et al. (See Ayres & Chamberlin, assignors)..... (Reissue.)					
	Same..... (See Dudley, George D., assignor.)					
	Same..... (See Goodwin, Richard J. P., assignor)..... (Reissue.)					
6, 632	Woods, Edward P., and Daniel Sherwood, Lowell, Mass., assignors to selves and Cyrus H. Latham. Egg stand and boiler..... (Reissue.)	Sept. 7, 1875	200	63	8	434
161, 083	Woods, Edward P., assignor to self, Daniel Sherwood, and Cyrus H. Latham, Lowell, Mass. Toy furniture.....	Mar. 23, 1875	778	256	7	481
	Woods, Frank. (See Norris & Woods, assignors.)					
166, 577	Woods, Hiram, assignor to self and William F. Merriman, Newcastle, Pa. Machine for rolling nail-plates.....	Aug. 10, 1875	376	116	8	260
	Woods, Newell E. (See Norris & Woods.)					
167, 048	Woodville, John, Washington, Ind. Car-wheel lubricator.....	Aug. 24, 1875	847	263	8	344
170, 215	Woodward, Ambrose W., Lancaster, Pa. Combined wind-wheel and fan for railway-cars.....	Nov. 23, 1875	898	280	8	875
159, 243	Woodward, Charles J., Brooklyn, N. Y. Support for stools.....	Jan. 26, 1875	868	283	7	166
165, 143	Woodward, Erastus, Charlestown, Mass. Culinary grater.....	June 29, 1875	1238	398	7	1132
159, 134	Woodward, Frank R., Hill, N. H. Pocket-tool.....	Jan. 26, 1875	767	252	7	151
166, 954	Same..... Rotary paper-cutter.....	Aug. 24, 1875	758	235	8	332
171, 252	Woodward, George W., assignor of one-half interest to George P. McNeill, Fayetteville, N. C. Sugar-scoop.....	Dec. 21, 1875	596	195	8	1045
160, 805	Woodward, Gillman, Providence, assignor of one-half interest to James A. Matteson, Johnston, R. I. Blind-stop.....	Mar. 16, 1875	532	172	7	439
	Woodward, Isaac O. (See Dyke, Albion, assignor.)					
	Woodward, Jabez S., et al. (See Taylor, John, assignor.)					
161, 084	Woodworth, Alfred, Cambridge, N. Y. Water-wheel governor.....	Mar. 23, 1875	779	256	7	481
164, 504	Woodworth, Milton, and Jerome B. Fredricks, Conneaut, Ohio. Car-mover.....	June 15, 1875	638	206	7	1035
168, 595	Woodworth, Silas F., Rockford, Ill. Sulky-plow.....	Oct. 11, 1875	278	90	8	611
169, 879	Woodworth, Zachary, Springwells, Mich. Apparatus for lighting gas, &c.....	Nov. 9, 1875	562	175	8	815
162, 000	Wolf, Ira D., Oneonta, N. Y. Sash-fastener.....	Apr. 13, 1875	367	123	7	631
159, 997	Woolfolk, Lucien B., Lexington, Ky. Process and apparatus for cooling liquids.....	Feb. 16, 1875	726	242	7	296
163, 431	Same..... Ice-cream freezer.....	May 18, 1875	673	215	7	859
165, 048	Same..... Heat-reflector.....	June 29, 1875	1153	372	7	1119
166, 736	Same..... Water-cooler.....	Aug. 17, 1875	545	167	8	293
168, 441	Same..... Refrigerator.....	Oct. 5, 1875	105	36	8	580
171, 204	Same..... Refrigerator apparatus.....	Dec. 14, 1875	528	174	8	1028
158, 560	Woolridge, John, assignor of two-thirds interest to Abel B. Smith, Dean's Corners, Ill. Land-roller.....	Jan. 5, 1875	181	63	7	34
169, 220	Woolsey, James J., Stamford, Conn. Combined burglar-alarm and door-fastener.....	Oct. 26, 1875	878	285	8	712
158, 877	Woolsey, Thomas D., assignor of one-half interest to William H. Baxter, San Francisco, Cal. Bath attachment.....	Jan. 19, 1875	503	169	7	109
159, 556	Same..... Bath-tub attachment.....	Feb. 9, 1875	311	101	7	234
167, 722	Woolsey, William F., Breckenridge, Mo. Furnace for destroying insects.....	Sept. 14, 1875	313	99	8	458
	Woolson, A. N. (See Frost, Henry S., assignor.)					
160, 500	Wooster, Emma C., New York, N. Y. House maid's pail.....	Mar. 2, 1875	223	76	7	381
	Wooster, George H. (See Pipo, John A., assignor)..... (Reissue.)					
	Same..... (See Robjohn, Thomas, assignor)..... (Reissue.)					
	Same..... (See Trowbridge, John H., assignor.)					
	Same..... (See Walker, William, assignor)..... (Reissue.)					
165, 647	Wootten, John E., Reading, Pa. Car-spring.....	July 13, 1875	505	154	8	87
166, 178	Same..... Railway-car spring.....	July 27, 1875	1039	320	8	188
166, 179	Same.....	July 27, 1875	1040	320	8	188
169, 880	Worcester, Leonard, West Brattleborough, and Joshua B. Howe, Readsborough, Vt. Cot-headstead.....	Nov. 9, 1875	563	175	8	815
162, 327	Worden, Asa E., Smyrna, Del. Washing-machine.....	Apr. 20, 1875	681	222	7	678
159, 490	Worden, James M., East Randolph, N. Y. Cow-tail holder.....	Feb. 2, 1875	235	77	7	217
	Worden, John J. (See Gilchrist, Hugh, assignor.)					
166, 177	Work, Alanson, Providence, R. I. Hose-coupling.....	July 27, 1875	1037	320	8	188
6, 375	Worley, James T., Cleveland, Ohio. Safety passenger-car..... (Reissue.)	Apr. 13, 1875	494	163	7	647
160, 375	Worley, John, Cleveland, Ohio. Machine for applying paste to wall-paper.....	Mar. 2, 1875	103	38	7	363
169, 881	Wormald, William, and Edmund Dobson, Leeds, England. Sewing-machine.....	Nov. 9, 1875	564	176	8	815
169, 393	Wornley, Abram N., Cornton, Ill. Barbed-wire fence.....	Nov. 2, 1875	68	20	8	744
171, 205	Worrell, John, Clayton, Ind. Plow.....	Dec. 14, 1875	529	175	8	1028
168, 362	Worrell, Stanley E., Hannibal, Mo. Marking-wheel.....	Oct. 5, 1875	39	14	8	570
166, 490	Worsley, Samuel L., assignor to American Screw Company, Providence, R. I. Machine for tapping nuts.....	Aug. 10, 1875	306	92	8	250
166, 834	Worster, Alexander, Groveton, N. H. Locking-latch.....	Aug. 17, 1875	628	195	8	506
161, 085	Worswick, James R., Cleveland, Ohio. Steam-radiator.....	Mar. 23, 1875	780	257	7	482
	Worth, Addison R. (See Caswell & Worth.)					
161, 465	Worth, John S., Coatesville, Pa. Mechanism for operating the adjusting-screws of rolls.....	Mar. 30, 1875	1158	374	7	538
168, 442	Worthen, William E., and Richard S. Gillespie, New York, N. Y. Electroplated figures, &c.....	Oct. 5, 1875	107	36	8	580
171, 464	Same..... Electroplating statuettes, &c.....	Dec. 21, 1875	782	258 } 259 }	8	1070
165, 648	Worthman, John E., Mobile, Ala. Car-brake.....	July 13, 1875	505	155	8	87
	Wray, Hiram H. (See Weincl, Josiah, J., assignor.)					
6, 568	Wren, William C., and William Barker, Brooklyn, assignors, by mesne assignments, to Charles F. Dean, New York, N. Y. Making illuminating-gas from petroleum. (Reissue.)	July 27, 1875	1055	324	8	190

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No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
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160, 046	Wright, Allen, Westfield, N. Y. Clothes-frame	Feb. 23, 1875	790	260	7	312
159, 373	Wright Arthur, Bath, Me. Vehicle chafing-iron	Feb. 2, 1875	118	41	7	200
159, 010	Wright, Caleb, assignor to J. Hall and Joseph B. Rohrman, Philadelphia, Pa. Wire fastener for fruit-jars	Jan. 19, 1875	633	210	7	126
165, 779	Wright, Daniel, Lowell, assignor to George Draper & Son, Milford, Mass. Art of treating yarn to set the twist	July 20, 1875	634	195	8	120
169, 504	Wright, Daniel, assignor to Sawyer Spindle Company, Boston, Mass. Loom-shuttle	Nov. 2, 1875	161	54	8	757
169, 505	Same	Nov. 2, 1875	162	54	8	757
171, 077	Wright, David, Auburn, N. Y. Barrel	Dec. 14, 1875	399	132	8	1011
169, 073	Wright, Edward, Worcester, Mass. Governor for water-wheels	Oct. 19, 1875	723	239	8	682
159, 011	Wright, Edward D., and Charles H. Kenney, Springfield, Vt. Lamp-chimney	Jan. 19, 1875	634	210	7	126
160, 738	Wright, George, Old Point Comfort, Va. Thill-coupling	Mar. 9, 1875	445	148	7	421
169, 503	Wright, George G., and George Bassett, Spencer, Mass. Crimper's pinchers	Nov. 2, 1875	160	54	8	757
166, 326	Wright, Henry J., Society Hill, S. C. Bale-tie	Aug. 3, 1875	128	40	8	217
163, 560	Wright, Homer, Pittsburgh, Pa. Jug-top	May 18, 1875	798	253	7	874
166, 054	Wright, James, Mountain Mills, Ala. Cotton-cleaner	July 27, 1875	914	282	8	170
159, 012	Wright, John P., and Daniel W. Gardner, Brooklyn, N. Y. Canvas-stretcher	Jan. 19, 1875	634	210	7	126
169, 072	Wright, John T., Columbia, Tenn. Seed-dropper	Oct. 19, 1875	722	239	8	682
160, 737	Wright, Joseph C., Monocacy Furnace, Pa. Coping for walls	Mar. 9, 1875	444	147	7	420
164, 505	Wright, Joseph C., Monocacy Station, Pa. Nut-lock	June 15, 1875	639	207	7	1035
167, 047	Same	Aug. 24, 1875	846	263	8	344
167, 967	Wright, Joseph C., Monocacy Furnace, assignor of one-half interest to John B. Hacker, Philadelphia, Pa., and Jesse M. Cook. Nut-lock	Sept. 21, 1875	540	173	8	499
	Wright, Julius. (See Blakesley & Wright.)					
	Wright, Lewis A. (See Cilley, Wright & Nelson.)					
	Wright, Luther S., et al. (See Moore, Theodore F., assignor.)					
158, 819	Wright, Luther S., Groton, assignor of one-half interest to Orlando Bently, Marathon, N. Y. Machine for making toe-calks	Jan. 19, 1875	452	150	7	102
159, 625	Wright, Ransom C., Philadelphia, Pa. Car-truck	Feb. 9, 1875	361	120	7	242
167, 287	Wright, Samuel, Troy, Ohio. Corn-planter	Aug. 31, 1875	1086	341	8	385
	Wright, Simon, et al. (See Minor, John O., assignor.)					
162, 513	Wright, Walter, Tapleville, Mass. Valve for compound engines	Apr. 27, 1875	883	282	7	711
6, 393	Wright, William, New York, N. Y., assignor to Valley Machine Company, East Hampton, Mass. Steam-pump	Apr. 20, 1875	820	265	7	695
167, 815	Wright, William, Lincoln, Ill. Blind-stop	Sept. 14, 1875	404	130	8	471
159, 736	Wright, William A., Griffin, Ga. Hay and cotton press	Feb. 9, 1875	467	156	7	257
161, 466	Wright, William E., Rome, N. Y. Peat-kiln	Mar. 30, 1875	1159	374	7	538
	Wright, William F. (See Brooke & Wright.)					
	Wright, William H. (See Strohm, Samuel D., assignor.)					
163, 432	Wrightington, Charles D., Fairhaven, Mass. Brick and tile machine	May 18, 1875	675	216	7	859
163, 561	Wroth, Alfred B., assignor of two-thirds interest to E. G. Barker and George Atkinson, Winterset, Iowa. Level	May 18, 1875	799	253	7	874
165, 969	Wroth, Alfred B., Winterset, Iowa, assignor of one-half interest to George A. Atkinson. Washing-machine	July 27, 1875	837	257	8	159
168, 313	Wroth, Alfred B., assignor of two-thirds interest to Samuel D. Kirkland and Charlotte Gordon, Winterset, Iowa. Wagon-reach	Sept. 28, 1875	886	283	8	555
163, 715	Wuerz, William, New York, N. Y. Child's carriage	May 25, 1875	946	300	7	901
165, 908	Wunderlich, John N., Philadelphia, Pa. Ironing-table	July 20, 1875	764	233	8	138
165, 649	Wurzner, Joseph, Chicago, Ill. Air-dried bricks	July 13, 1875	507		8	87
161, 188	Wüstenhagen, William, and John Besler, Pittsburgh, Pa. Roll for forming the eyes of picks, &c.	Mar. 23, 1875	857	287	7	494
6, 813	Wyckoff, Arcalous, assignor to Seamless Keg and Can Company, Elmira, N. Y. Barrel-machine	Dec. 21, 1875	787	260	8	1070
6, 814	Same	Dec. 21, 1875	788	260	8	1070
165, 399	Wyckoff, Frank C., New York, N. Y. Sink for oil-casks	July 6, 1875	246	74	8	42
170, 323	Wyckoff, William H. H., Lesser Cross-Roads, N. J. Carpet-rag looper	Nov. 23, 1875	996	312	8	889
169, 221	Wylie, Robert J., Marissa, Ill. Feed-cutter	Oct. 26, 1875	878	285	8	712
162, 329	Wyman, Frederick, San Buenaventura, Cal. Reel for harvesters	Apr. 20, 1875	682	222	7	678
168, 203	Wyman, Henry W., New York, N. Y. Ice-cream carrier	Sept. 28, 1875	793	252	8	541
6, 567	Wyman, Horace. (See Crompton & Wyman.)					
	Wyman, Horace, Worcester, Mass., assignor to George Crompton. Shuttle-box mechanism for looms	July 27, 1875	1053	323	8	190
158, 394	Wyman, Horace, assignor of one-half interest to George Crompton, Worcester, Mass. Shuttle-box mechanism for looms	Jan. 5, 1875	73	13	7	14
158, 395	Same	Jan. 5, 1875	39	14	7	14
167, 379	Wyman, W. Forestus, Chelsea, Mass. Printing-press	Aug. 31, 1875	1168	368	8	397
	Wyncoop, Richard J. (See Laauwe & Wyncoop.)					
166, 737	Wynn, Andrew S., Providence, R. I. Stopping-mechanism for looms	Aug. 17, 1875	546	167	8	293
162, 785	Wyss, Conrad V., and Henry Studer, Zurich, Switzerland. Motive-power engine	May 4, 1875	47	15	7	753
165, 909	Wyvell, Charles M., Scottville, N. Y. Sheet-iron barrel	July 20, 1875	765	234	8	138
	Yaeger, Bernard. (See Shaw & Yaeger.)					
	Yagle, William, et al. (See Reed, John C., assignor.)					
165, 435	Yagn, Nicolas, Syzrau, Russia. Feeding-apparatus for steam-boilers	July 13, 1875	304	90	8	57
161, 727	Yale, Charles O., New York, N. Y. Combination-lock	Apr. 6, 1875	118	42	7	586
169, 938	Same	Nov. 16, 1875	625	194	8	831
	Yarbrough, Fisher. (See Rush & Yarbrough.)					
	Yard & Sullivan. (See Jones, Henry B., assignor.)					
162, 210	Yardley, Elisha N., Tonganoxie, Kans. Attachment for plows	Apr. 20, 1875	575	188	7	665
	Yarnell, John F. (See Spencer, George F., assignor.)					
	Yates, Alvah P. (See Yates, John and Alvah P.)					
	Yates, James T. (See Addison & Yates.)					
158, 878	Yates, John, and Alvah P., Rockford, Ill. Stove-polish	Jan. 19, 1875	504		7	109
167, 209	Yates, John H., and Charles R. Treat, Sharon, Wis. Nasal inhaler	Aug. 31, 1875	1021	317	8	375
158, 820	Yaw, Benoni, and Robert H. Mitchell, deceased, James J. Mitchell, administrator, New Concord, Ohio. Butter-worker	Jan. 19, 1875	452	150	7	102
161, 189	Yeager, William E., Lawrence, Kans. Carriage-bow rest	Mar. 23, 1875	876	287	7	494
161, 850	Yeagly, John, Fredericksburgh, Ohio. Car coupling	Apr. 6, 1875	230	77	7	602
163, 562	Yeargin, Henry J., Liberty, Tenn. Combined land-roller and harrow	May 18, 1875	800	253	7	874
170, 795	Yeiser, Frederick, Danville, Ky. Spectacles	Dec. 7, 1875	128	42	8	968
162, 909	Yoemans, William H., Redditch, England. Needle-case	May 4, 1875	240	77	7	779
162, 451	Yerington, Henry W., Oceanic, N. J., assignor to Rowland C. Anthony, New York, N. Y. Wire fastening for bottle-stoppers	Apr. 20, 1875	806	261	7	693
164, 245	Same	June 8, 1875	381	130	7	693
164, 246	Same	June 8, 1875	383	130	7	994
164, 358	Yewell, John W., Washington, D. C. Device for holding and displaying brooms	June 8, 1875	495	163	7	1008

Alphabetical list of patentees for the year 1875—Continued.

No.	Name, residence, and invention.	Date.	Monthly volume.		Official Gazette.	
			Spec.	Dr'g.	Vol.	Page.
	Yingst, Conrad S. (<i>See</i> Hall & Yingst.)					
	Yochel, Charles, <i>et al.</i> (<i>See</i> De Beaumont, Alexandre, assignor.)					
158, 561	Yocum, John, assignor of one-half interest to Levi Massecar, Dunnville, Canada. Plow..	Jan. 5, 1875	182	63	7	34
159, 737	York, Henry, Philadelphia, Pa. Folding table	Feb. 9, 1875	467	{ 156 157 }	7	257
	York, James E. (<i>See</i> Swift & York.)					
158, 879	York, John, Laona, N. Y. Sled-brake	Jan. 19, 1875	504	169	7	109
166, 942	Young, Alfred, Philadelphia, Pa. Vernier	Aug. 17, 1875	703	218	8	316
8, 421	Young, Alonzo E., Boston, Mass. Knob-shank	July 20, 1875			8	95
158, 821	Young, Barker C., Boston, Mass. Sewing-machine-operating mechanism	Jan. 19, 1875	153	151	7	103
159, 135	Same.....Gaiter-boot	Jan. 26, 1875	768	252	7	151
162, 211	Same.....Buckle.....	Apr. 20, 1875	576	189	7	665
169, 204	Young, Benjamin F., Boston, Mass. Clutch	Nov. 2, 1875	69	21	8	744
167, 723	Young, Charles A., Providence, R. I. Paper box	Sept. 14, 1875	313	100	8	458
170, 796	Young, Charles M., Meadville, Pa. Hay-loader	Dec. 7, 1875	129	43	8	968
165, 970	Young, Corinne, New York, N. Y. Ribbon-runner	July 27, 1875	837	257	8	159
168, 204	Young, David D., Indianapolis, Ind. Sign	Sept. 28, 1875	793	252	8	541
165, 910	Young, Edward, Sarnia, Canada. Machine for sawing hoops	July 20, 1875	765	234	8	138
	Young, Eliza. (<i>See</i> Colgrove, Austin E., assignor.)					
161, 585	Young, George S., Clearfield, Pa. Scroll-sawing machine	Mar. 30, 1875	1277	{ 410 411 }	7	554
166, 491	Young, Henry Z., Vicksburgh, Miss. Bale-tie clamp	Aug. 10, 1875	308	92	8	250
	Young, Hiram. (<i>See</i> Gibson, Samuel, assignor.)					
	Young, James D. (<i>See</i> Young, John Q. A. and James D.)					
162, 136	Young, John, Brooklyn, N. Y. Grate for stoves	Apr. 13, 1875	489	162	7	646
170, 615	Young, John A., assignor of one-half interest to William F. Cozzens, Saint Louis, Mo. Ventilating and heating furnace	Nov. 30, 1875	1282	405	8	936
166, 327	Young, John Q. A. and James D., Cedar Mill, Oreg. Car-coupling	Aug. 3, 1875	129	40	8	217
165, 523	Young, Lewis K., and Charles M. Ferguson, Bridgeport, Conn. Band-saw guide	July 13, 1875	387	115	8	69
	Young, L. L., <i>et al.</i> (<i>See</i> Bell, Jasper N., assignor.)					
160, 376	Young, McClintock, Frederick, Md. Machine for making matches	Mar. 2, 1875	104	38	7	363
	Young, Robert. (<i>See</i> McElroy & Young.)					
162, 452	Young, Samuel T., Howell, Mich. Car-coupling	Apr. 20, 1875	806	262	7	693
6, 571	Young, Solomon W., assignor, by mesne assignments, to John W. Hoard and Lyman A. Cook, Providence, R. I. Wood-screw	Aug. 3, 1875	250	75	8	234
170, 216	Young, Thomas B., and Silas A. Davis, assignors of one-third interest to John A. Moore, Livermore, Ky. Adjustable graduated measure	Nov. 23, 1875	899	281	8	875
161, 190	Young, William, Troy, Iowa. Well-reamer	Mar. 23, 1875	876	288	7	494
165, 291	Young, William, Mabon, Nova Scotia. Plane-iron	July 6, 1875	133	40	8	27
168, 952	Young, William, Easton, Pa. Pump	Oct. 19, 1875	609	202	8	667
168, 205	Young, William D., assignor to Shoenberger & Co., Pittsburgh, Pa. Machine for rolling horseshoe-blanks	Sept. 28, 1875	794	252	8	541
170, 040	Youngs, Abner, Mishawaka, Ind. Spring bed-bottom	Nov. 16, 1875	708	225	8	843
165, 400	Yule, George, Newark, N. J. Machine for stretching hat-bodies	July 6, 1875	247	74	8	42
160, 634	Zacharias, Sallé, San Francisco, Cal. Stud-fastening	Mar. 9, 1875	348	118	7	408
168, 702	Zane, George H., Shoemakertown, Pa. Potato-dropper	Oct. 11, 1875	373	122	8	625
169, 395	Zane, George H., Shoemakertown, and Samuel A. Kennedy, Philadelphia, Pa. Potato-dropper	Nov. 2, 1875	71	21	8	744
	Zapf, Edward. (<i>See</i> Nye & Zapf.)					
	Zarnfaller, Frederick. (<i>See</i> Severin, Aug., assignor.)					
	Zeigler, Charles W. (<i>See</i> Broadbent, Zeigler & Culver.)					
163, 563	Zeller, John P., South Bend, Ind. Plow	May 18, 1875	801	254	7	875
165, 144	Zengel, Joseph, Quincy, Ill. Apparatus for transmitting and regulating motion	June 29, 1875	1238	399	7	1132
162, 734	Ziegel, Peter, Nashville, Ill. Shot-charger	Apr. 27, 1875	1093	346	7	737
163, 958	Zimmer, Anna M., Elkhart, Ind. Wood-grinder for paper-pulp	June 1, 1875	99	34	7	944
	Zimmerman, Charles. (<i>See</i> Zimmerman, George F. S. and Charles.)					
163, 621	Zimmerman, George F. S. and Charles, Frederick, Md. Shutter bower and fastener	May 25, 1875	872	274	7	892
	Zimmerman, Henry. (<i>See</i> Kohler, Friederich, assignor.)					
8, 357	Zimmerman, Henry, Chicago, Ill. Cigar-box	May 25, 1875			7	879
163, 564	Zimmerman, John, Mansfield, Ohio. Combined drier and bake-oven	May 18, 1875	802	254	7	875
170, 616	Zimmerman, Paul, Pittsburgh, Pa. Machine for flaring and crimping lamp-chimneys	Nov. 30, 1875	1283	405	8	936
160, 739	Zimmerman, William H., Chestertown, Md. Hydro-electric lamp	Mar. 9, 1875	445	148	7	421
160, 988	Zimmerman, William K., Chestertown, Md. Lamp-extinguisher	Mar. 16, 1875	685	225	7	461
163, 041	Zingler, Maximillian, London, England. Varnish	May 11, 1875	304		7	794
165, 145	Zinsser, William, New York, N. Y. Compound for preserving beer	June 29, 1875	1240		7	1132
	Ziph, George H., <i>et al.</i> (<i>See</i> Harwood, George D., assignor.)					
162, 990	Zirkle, Joseph M., New Market, Va. Truss	May 4, 1875	241	77	7	779
163, 716	Zoehe, Wilhelm F., Brooklyn, N. Y. Steering-propeller	May 25, 1875	947	301	7	901
163, 717	Zoller, Albert, Hoboken, N. J. Faucet attachment for barrels	May 25, 1875	948	301	7	802
	Zollner, Frederick. (<i>See</i> Newton & Zollner.)					
6, 287	Zwietusch, Otto, Milwaukee, Wis. Carbonic-acid-gas generator	Feb. 9, 1875	480	{ 160 161 }	7	260
161, 728	Same.....same	Apr. 6, 1875	120	42	7	586

LIST OF PATENTS EXTENDED DURING THE YEAR 1875.

Number.	Name of inventor, invention, or discovery.	Date.
Reissue No. 4,959	Allyn, Timothy F. Spring for railway-cars (Reissued July 2, 1872) ..	Jan. 15, 1861
Reissue No. 2,906	Ballou, Francis D. Mechanism for boot and shoe sewing machines..... (Reissued Mar. 31, 1868) ..	Jan. 22, 1861
Original No. 31,147	Bell, A. John. Steamboat-staging	Jan. 22, 1861
Reissue No. 1,481	Brand, Nathan. Manufacture of hoe-blanks..... (Reissued May 26, 1863) ..	Feb. 26, 1861
Reissue No. 1,482	Same..... same..... (Reissued May 26, 1863) ..	Feb. 26, 1861
Reissue No. 1,735	Cahoon, Charles W. Lamp..... (Reissued Aug. 9, 1864) ..	Feb. 19, 1861
Reissue No. 1,165	Colburn, George F. J. Evaporator for hot-air pipes..... (Reissued Apr. 2, 1861) ..	Jan. 22, 1861
Reissue No. 4,884	Cooper, George. Needle..... (Reissued Apr. 30, 1872) ..	Jan. 22, 1861
Original No. 31,533	Davis, Augustus B. Weighing apparatus	Feb. 26, 1861
Original No. 31,534	Same..... Scale-beam	Feb. 26, 1861
Original No. 31,443	Denison, Charles H. Felly-machine	Feb. 19, 1861
Reissue No. 1,476	Donaldson, Richard, deceased, by Margaret Donaldson, administratrix. Lime-kiln. (Reissued May 19, 1863) ..	Feb. 19, 1861
Reissue No. 4,217	Dutton, Rufus. Harvester..... (Reissued Sept. 20, 1870; again reissued Dec. 27, 1870) ..	Feb. 12, 1861
Original No. 28,470	Grant, Frederick T., deceased, by Charles C. Grant, administrator. Sliver-machine. (Extended by act of Congress Mar. 3, 1875) ..	May 29, 1860
Original No. 31,315	Hardy, Charles. Machinery for grinding the card-teeth of carding-cylinders.....	Feb. 5, 1861
Original No. 14,535	Haseltine, John. Water-wheel..... (Extended by act of Congress Feb. 18, 1875) ..	Mar. 25, 1856
Original No. 27,715	Hathaway, Joshua, deceased, by Ann J. Hathaway, executrix. Device for converting reciprocating into rotary-motion	Apr. 3, 1860
Original No. 31,168	Herring, Calvin L. Gas-regulator	Jan. 22, 1861
Original No. 31,082	Hotine, William. Machine for mixing dough	Jan. 8, 1861
Original No. 31,172	Jarrell, William. Plow	Jan. 22, 1861
Original No. 31,211	Langdon, Leander W. Sewing-machine	Jan. 22, 1861
Original No. 31,546	Lauth, Bernard. Polishing iron bars and rods.....	Feb. 26, 1861
Original No. 31,394	Linton, William, deceased, by Elizabeth Linton, administratrix. Molding pottery.....	Feb. 12, 1861
Original No. 31,252	McComb, J. J. Iron tie for cotton-bales	Jan. 29, 1861
Reissue No. 4,548	McDonald, Hiram. Wood-bending machine. (Reissued Sept. 12, 1871; again reissued Oct. 31, 1871) ..	Jan. 22, 1861
Reissue No. 3,785	Milliken, William H. and John. Paper-folding machine..... (Reissued Jan. 4, 1870) ..	Feb. 26, 1861
Reissue No. 3,786	Same..... Combined paper-folding machine and printing-press..... (Reissued Jan. 4, 1870) ..	Feb. 26, 1861
Original No. 31,324	Murkland, William, deceased, by John Davis, administrator. Loom	Feb. 5, 1861
Reissue No. 4,269	Otis, Elisha G., deceased, by Benjamin T. Babbitt, administrator. Hoisting-apparatus. (Reissued Feb. 21, 1871) ..	Jan. 15, 1861
Reissue No. 4,270	Same..... same..... (Reissued Feb. 21, 1871) .. (Division A) ..	Jan. 15, 1861
Reissue No. 4,271	Same..... same..... (Reissued Feb. 21, 1871) .. (Division B) ..	Jan. 15, 1861
Original No. 31,579	Preston, Francis B. Corn-planter	Feb. 26, 1861
Reissue No. 5,045	Rice, Quartus. Sewing-machine..... (Reissued Aug. 27, 1872) ..	Jan. 22, 1861
Original No. 31,330	Seward, Moses. Collar for ornamenta' carriage-work.....	Feb. 5, 1861
Reissue No. 4,834	Smith, Francis H., deceased, by Marshall P. Smith, executor. Drying fruits, vegetables, &c. (Reissued June 30, 1868; again reissued July 11, 1871; again reissued Mar. 26, 1872) ..	Feb. 26, 1861
Reissue No. 5,827	Stafford, Daniel S., deceased, by Eliza T. Conklin, executrix. Cultivator. (Reissued Apr. 7, 1874) ..	Jan. 15, 1861
Original No. 31,094	Thornton, William McK. Machine for creasing and finishing leather straps	Jan. 8, 1861
Original No. 39,199	Wheeler, Sarah J. Curry-comb	Jan. 22, 1861
Original No. 31,502	Wilder, R. A. Machine for breaking coal.....	Feb. 19, 1861

LIST OF TRADE-MARKS REGISTERED DURING THE YEAR 1875.

No.	Name, residence, and title.	Date of filing.	Date of registration.
3,209	Adams & Co., New York, N. Y. Whisky.....	Dec. 3, 1875	Dec. 7, 1875
2,412	Adams & Taylor, Boston, Mass. Whisky.....	Jan. 4, 1872	May 4, 1875
2,413	Same..... Gin.....	Jan. 4, 1872	May 4, 1875
2,414	Same..... Whisky.....	Jan. 4, 1872	May 4, 1875
2,415	Same..... Gin.....	Jan. 4, 1872	May 4, 1875
2,453	Same..... same.....	Jan. 4, 1872	May 11, 1875
2,416	Adams, Blake & Taylor, Boston, Mass. Whisky.....	Jan. 15, 1872	May 4, 1875
2,417	Same..... Gin.....	Mar. 1, 1872	May 4, 1875
2,362	Adriance, Platt & Co., Poughkeepsie and New York, N. Y. Mowing and reaping machines.....	Nov. 21, 1872	Apr. 13, 1875
2,944	Ager, Samuel, Somerville, Mass. Yeast.....	July 6, 1875	Sept. 21, 1875
2,218	Albright, Andrew, Newark, N. J. Hard-rubber-coated mountings for harness and carriages.....	Jan. 8, 1875	Feb. 9, 1875
3,280	Alcés, George, New York, N. Y. Cigars.....	July 21, 1875	Dec. 28, 1875
2,267	Allen & Co., R. H., New York, N. Y. Cotton-working machines.....	Feb. 24, 1875	Mar. 2, 1875
2,937	Allen, Freeman S., Washington, D. C. Jewelry.....	Sept. 11, 1875	Sept. 14, 1875
2,454	Allen's Sons, Josiah J., Philadelphia, Pa. Fertilizers.....	Apr. 15, 1875	May 11, 1875
2,455	Same..... same.....	Apr. 15, 1875	May 11, 1875
2,945	Alton Agricultural Works, Alton, Ill. Thrashers and separators.....	Aug. 6, 1875	Sept. 21, 1875
3,222	Same..... Thrashing-machines.....	Dec. 4, 1875	Dec. 14, 1875
3,078	Amazon Baking Powder Company, Louisville, Ky. Baking-powder.....	July 15, 1875	Oct. 19, 1875
2,946	Amberg, William A., Chicago, Ill. Self-indexing files.....	July 31, 1875	Sept. 21, 1875
2,947	Same..... same.....	Aug. 5, 1875	Sept. 21, 1875
2,542	American Graphite Company, New York, N. Y. Plumbago or graphite lubricant.....	Mar. 15, 1872	May 18, 1875
3,190	American Lubricating Oil Company, Cleveland, Ohio. Wool-oil.....	Nov. 16, 1875	Dec. 7, 1875
2,775	American Tube Works, Boston, Mass. Seamless metal tubes.....	Sept. 28, 1870	July 20, 1875
2,150	American Yeast Company, Fond du Lac, Wis. Yeast-cakes.....	Nov. 30, 1874	Jan. 5, 1875
3,028	Ams, Max, New York, N. Y. Caviar.....	Sept. 25, 1875	Oct. 11, 1875
2,601	Andrews, Joseph, New York, N. Y. Blacking.....	May 18, 1875	June 1, 1875
2,998	Aquometer Steam Pump Company, Philadelphia, Pa. Steam-pumps and other steam and hydraulic apparatus.....	July 3, 1875	Oct. 5, 1875
2,162	Arion Piano-Forte Company, New York, N. Y. Piano-fortes.....	Jan. 7, 1875	Jan. 12, 1875
2,163	Same..... same.....	Jan. 7, 1875	Jan. 12, 1875
2,857	Armstrong, Frank, Bridgeport, Conn. Hardware.....	Aug. 10, 1875	Aug. 31, 1875
2,636	Atkins & Co., E. C., Indianapolis, Ind. Saws.....	May 6, 1875	June 8, 1875
2,733	Same..... same.....	July 2, 1875	July 13, 1875
2,456	Atkins & Ladd, New York, N. Y. Baking-powder.....	Apr. 10, 1875	May 11, 1875
2,948	Atlantic and Virginia Fertilizing Company, New York, N. Y. Fertilizers.....	June 12, 1875	Sept. 21, 1875
3,084	Same..... same.....	June 12, 1875	Oct. 26, 1875
2,773	Atlantic White Lead Company, New York, N. Y. White lead.....	Nov. 3, 1870	July 20, 1875
2,774	Same..... Refined boiled linseed-oil.....	Nov. 3, 1870	July 20, 1875
2,700	Atmore & Son, Philadelphia, Pa. Mince-meat.....	July 21, 1871	July 6, 1875
2,734	Same..... Canned plum pudding.....	June 12, 1875	July 13, 1875
2,902	Atwood, Herman W., New York, N. Y. Toilet preparations.....	July 31, 1875	Sept. 7, 1875
2,302	Avery & Sons, B. F., Louisville, Ky. Plows.....	Mar. 9, 1875	Mar. 23, 1875
2,303	Same..... same.....	Mar. 9, 1875	Mar. 23, 1875
2,304	Same..... same.....	Mar. 9, 1875	Mar. 23, 1875
2,312	Same..... same.....	Mar. 9, 1875	Mar. 23, 1875
2,328	Ayer & Co., J. C., Lowell, Mass. Medicine.....	Aug. 24, 1874	Mar. 30, 1875
2,418	Babcock & Co., J. P., Stonington, Conn. Soap.....	Jan. 23, 1872	May 4, 1875
2,746	Backus, Frederick M., Cleveland, Ohio. Lubricating-oil.....	Mar. 27, 1871	July 20, 1875
3,223	Baeder, Adamson & Co., Philadelphia, Pa. Glue, gelatine, and sizing.....	Oct. 22, 1875	Dec. 14, 1875
2,999	Bailey, Edwin F., Ashland, N. H. Leather-board.....	Aug. 25, 1875	Oct. 5, 1875
2,903	Bailey Tool Company, Woonsocket, R. I. Wood-working tools.....	July 29, 1875	Sept. 7, 1875
2,575	Bailey Washing and Wringing Machine Company, Woonsocket, R. I. Clothes-wringers.....	Feb. 5, 1873	May 25, 1875
2,576	Same..... same.....	Feb. 5, 1873	May 25, 1875
2,747	Baker & Brother, H. J., New York, N. Y. Castor-oil.....	Jan. 9, 1871	July 20, 1875
2,748	Same..... same.....	Jan. 9, 1871	July 20, 1875
3,148	Baltz, Charles, Chicago, Ill. Cured meats.....	Oct. 12, 1875	Nov. 23, 1875
2,543	Banes, Reuben, New Moorfield, Ohio. Liniment.....	Apr. 12, 1875	May 18, 1875
3,102	Barber Match Company, Akron, Ohio. Friction-matches.....	Oct. 5, 1875	Nov. 2, 1875
2,513	Barkhouse Brothers & Co., Louisville, Ky. Whisky.....	Nov. 25, 1871	May 18, 1875
2,174	Barkley & Hasson, Baltimore, Md. Coffee.....	Jan. 14, 1875	Jan. 19, 1875
2,175	Same..... same.....	Jan. 14, 1875	Jan. 19, 1875
2,656	Barnes & Co., W. R., Baltimore, Md. Canned oysters and fruits.....	May 34, 1875	June 8, 1875
2,796	Barnes, Wallace, Bristol, Conn. Clock-springs.....	Aug. 17, 1871	Aug. 3, 1875
3,149	Barnett & Son, London, England, and Reims, France. Wines.....	Oct. 22, 1875	Nov. 23, 1875
2,833	Bartlett & Co., H. A., Philadelphia, Pa. Stove-polish.....	Aug. 17, 1875	Aug. 24, 1875
2,949	Same..... same.....	Aug. 26, 1875	Sept. 21, 1875
2,514	Bartlett, Robbins & Co., Baltimore, Md. Kitchen ranges and stoves.....	Aug. 19, 1871	May 18, 1875
2,858	Bassett & Shaw, Boston, Mass. Umbrellas and parasols.....	July 21, 1875	Aug. 31, 1875
2,275	Batchelor Brothers, Philadelphia, Pa. Cigars, tobacco, and snuff.....	Feb. 26, 1875	Mar. 9, 1875
2,785	Bates, Benjamin, Baltimore, Md. Beer.....	Feb. 7, 1871	July 27, 1875
2,786	Same..... same.....	Apr. 21, 1871	July 27, 1875
2,787	Same..... Tonic beer.....	Sept. 26, 1872	July 27, 1875
2,859	Same..... Beer.....	Aug. 23, 1875	Aug. 31, 1875
2,515	Baxter, Bell & Co., New York, N. Y. White lead, zinc, and paints.....	Apr. 24, 1875	May 18, 1875
2,338	Bay State Iron Company, Boston, Mass. Pig-iron.....	June 8, 1872	Apr. 6, 1875
2,339	Same..... Plate-metal.....	June 8, 1872	Apr. 6, 1875
2,457	Beach, Abel, Iowa City, Iowa. Writing-paper.....	Dec. 14, 1872	May 11, 1875
3,077	Beard, Albert O., Philadelphia, Pa. Shirts.....	Sept. 10, 1875	Oct. 19, 1875
2,938	Beckert, Charles, Allegheny, Pa. Cigars.....	June 18, 1875	Sept. 14, 1875
2,516	Beckwith, Philo D., Dowagiac, Mich. Stoves.....	Nov. 19, 1872	May 18, 1875
3,253	Beeber & Co., M., Gloversville and New York, N. Y. Gloves.....	Sept. 27, 1875	Dec. 21, 1875
2,363	Bell & Co., R. W., Buffalo, N. Y. Soap.....	Mar. 22, 1875	Apr. 13, 1875
2,364	Same..... same.....	Mar. 8, 1875	Apr. 13, 1875
2,860	Same..... same.....	Aug. 6, 1875	Aug. 31, 1875
3,191	Same..... same.....	Nov. 17, 1875	Dec. 7, 1875
2,191	Benjamin, Henry A., San Francisco, Cal. Medicinal or mineral waters.....	Oct. 26, 1874	Jan. 26, 1875
2,399	Bertot, Francis D., New York, N. Y. Copyable printing and writing inks.....	Apr. 14, 1875	Apr. 20, 1875
2,517	Bishop & Co., R. M., Cincinnati, Ohio. Soap.....	Aug. 26, 1872	May 18, 1875
2,722	Bissell & Moore Manufacturing Company, New York, N. Y. Saws.....	May 2, 1871	July 6, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing	Date of registration.
2,657	Bissell, Frank S., Pittsburgh, Pa. Grates	Apr. 17, 1875	May 8, 1875
2,770	Blanchard's Sons, Porter, Concord, N. H. Churns	Nov. 8, 1870	July 20, 1875
2,129	Blatchley, Charles G., Philadelphia, Pa. Pumps	Feb. 23, 1871	Nov. 16, 1875
2,204	Bliss & Allen, New York, N. Y. Cotton cassimeres	Jan. 23, 1875	Feb. 2, 1875
2,904	Bloomer, King & Co., New York, N. Y. Shirts	Aug. 10, 1875	Sept. 7, 1875
3,103	Same	Oct. 2, 1875	Nov. 2, 1875
2,701	Blume & Co., New York, N. Y. Chicory	Jan. 31, 1871	July 6, 1875
3,058	Bodkin & McKinney, Hoboken, N. J. Washing-fluid	Aug. 2, 1875	Oct. 19, 1875
3,013	Boehm & Co., Frank, New York, N. Y. Wines and spirits	Mar. 23, 1875	Oct. 5, 1875
3,059	Bolenius & Co., G. H., Baltimore, Md. Cigars	Aug. 7, 1875	Oct. 19, 1875
2,159	Bonnet, Duffy & Co., Quincy, Ill. Cooking-stove	Dec. 28, 1874	Jan. 12, 1875
3,166	Borter & Dickey, New York, N. Y., and Philadelphia, Pa. Flannels and cottonades	July 10, 1875	Nov. 23, 1875
2,787	Bortree & Co., M. K., Jackson, Mich. Corsets	Aug. 18, 1875	Sept. 28, 1875
2,674	Bortree & Co., M. R., Chicago, Ill. Flour	Apr. 19, 1875	June 15, 1875
2,577	Boston Lead Company, Boston, Mass. Lead for painters' use	Feb. 23, 1872	May 25, 1875
2,518	Bourke & Co., F. G., New York, N. Y. Metallic paint	Dec. 17, 1870	May 18, 1875
2,458	Bowdlear & Co., S. G., Boston, Mass. Oat-meal	Apr. 14, 1875	May 11, 1875
3,192	Bowles & Wilkins, Chicago, Ill. Railway-journal bearings	Nov. 23, 1875	Dec. 7, 1875
2,432	Boyd & Co., Philadelphia, Pa. Roasted coffee	Apr. 21, 1875	May 4, 1875
3,125	Boyden, Malloy & Co., New York, N. Y. Hats, caps, furs, and straw goods	June 7, 1875	Nov. 9, 1875
2,789	Boyle, John, Brooklyn, N. Y., assignor to Marshall Jewell. Mail-bags	June 30, 1875	July 27, 1875
2,245	Brainerd, Armstrong & Co., New York, N. Y., and Philadelphia, Pa. Sewing-silk	Dec. 26, 1874	Feb. 16, 1875
2,797	Brayley, James, Buffalo, N. Y. Thrashing-machine	Feb. 23, 1871	Aug. 3, 1875
2,798	Same	Mar. 3, 1871	Aug. 3, 1875
2,197	Brenaman & Co., Charles H., Baltimore, Md. Cigars	Dec. 18, 1874	Feb. 2, 1875
2,637	Bridgewater Iron Company, Bridgewater, Mass. Seamless drawn tubes	May 5, 1875	June 8, 1875
2,812	Brinkley, I. B., Baltimore, Md. Hermetically-sealed canned goods	July 27, 1875	Aug. 10, 1875
2,905	Britton, Benjamin F., New York, N. Y. Combs	Aug. 5, 1875	Sept. 7, 1875
2,920	Same	Aug. 5, 1875	Sept. 7, 1875
3,254	Brock & Wiener, Buffalo, N. Y. Pantaloon & coats	Dec. 10, 1875	Dec. 21, 1875
2,379	Brokhahne, William, New York, N. Y. Cutlery	Apr. 3, 1875	Apr. 13, 1875
2,861	Brower & Co., New York, N. Y. Chemical compound	July 3, 1875	Aug. 31, 1875
2,950	Brown & Brothers, Waterbury, Conn. Brass, German silver, and silver-plated goods	July 24, 1875	Sept. 21, 1875
2,459	Brown & Co., D. Arthur, Fishersville, N. H. Wagon-axles	Nov. 19, 1870	May 11, 1875
2,433	Brown & Co., E., Jersey City, N. J. Tonic or bitters	Mar. 18, 1875	May 4, 1875
2,460	Brown & Co., S. N., Dayton, Ohio. Wagons	Oct. 17, 1871	May 11, 1875
2,519	Brown & Sons, John I., Boston, Mass. Bronchial troches	Sept. 7, 1871	May 18, 1875
3,255	Brown Chemical Company, C. F., New York, N. Y. Liniment	Apr. 18, 1872	Dec. 21, 1875
2,419	Brown, Frederick, Philadelphia, Pa. Essence of Jamaica ginger	Feb. 24, 1872	May 4, 1875
3,000	Brown, Robert B., Saint Louis, Mo. Castor-oil	Aug. 28, 1875	Oct. 5, 1875
3,041	Brown, William W., Boston, Mass. Medicine for rheumatism	May 10, 1875	Oct. 19, 1875
3,073	Brunswick and Balke Company, J. M., Chicago, Ill., and Cincinnati, Ohio. Billiard-cue racks	Sept. 24, 1875	Oct. 19, 1875
2,461	Buehner, David, New York, N. Y. Tobacco	May 3, 1875	May 11, 1875
2,602	Buck Brothers, Millbury, Mass. Chisels, plane-irons, and other light edge-tools	May 24, 1875	June 1, 1875
2,313	Bullock, Charles, Cambridge, Mass. Dentifrices	Jan. 27, 1875	Mar. 23, 1875
3,060	Bullocke, J., and J. B. Locke, New York, N. Y. Linen and cotton fabrics	Sept. 11, 1875	Oct. 19, 1875
2,788	Bunten & Armstrong, Terre Haute, Ind. Cod-liver oil	Aug. 4, 1875	Sept. 28, 1875
3,053	Burecy Chemical Company, Waterbury, Conn. Spirits produced by the fermentation and distillation of wood and woody fiber	Aug. 20, 1875	Oct. 19, 1875
2,834	Burchell, Norval W., Washington, D. C. Tea	Aug. 14, 1875	Aug. 24, 1875
2,383	Burger, Theodore W., Plainfield, N. J. Sheet-metal cans and boxes	Apr. 5, 1875	Apr. 20, 1875
3,281	Burkholder & Wilson, Bendersville, Pa. Fertilizers	Mar. 17, 1875	Dec. 28, 1875
2,702	Burks, Charles F., Fresno, Cal. Fly-catcher	May 31, 1875	July 6, 1875
2,158	Burlock Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Shirts	Dec. 4, 1874	Jan. 5, 1875
2,380	Burnham, Edwin R., Chicago, Ill. Medical compound	Mar. 16, 1875	Apr. 13, 1875
2,384	Same	Mar. 16, 1875	Apr. 20, 1875
3,224	Burns, Robert H., and Charles Drew, Boston, Mass. Lamp wicks or wicking	Nov. 11, 1875	Dec. 14, 1875
2,164	Burr & Co., M. S., Boston, Mass. Nursing-bottles	Dec. 21, 1874	Jan. 12, 1875
3,104	Butler & Norwood, Boston, Mass. Gummy or resinous extract of old varnish	Oct. 19, 1875	Nov. 2, 1875
2,544	Byrne Brothers & Co., New York, N. Y. Bitters	May 11, 1875	May 18, 1875
2,462	Cable Flax Mills, Schaghticoke, N. Y. Twines, yarns, shoe-threads, &c.	Apr. 1, 1872	May 11, 1875
3,151	Callaghan, Frank P., Chicago, Ill. Mixed paints	Oct. 4, 1875	Nov. 23, 1875
2,672	Camp Lounge Company, Troy, N. Y. Camp-lounges	Jan. 18, 1875	June 15, 1875
2,899	Campion & Co., J. W., Philadelphia, Pa. Medical preparation	Aug. 13, 1875	Sept. 7, 1875
3,130	Candee & Co., L., New Haven, Conn. India-rubber boots and shoes	Oct. 19, 1875	Nov. 16, 1875
2,790	Canfield, Samuel W., Piermont, N. Y. Condensed and fresh milk	June 19, 1875	July 27, 1875
2,826	Same	June 19, 1875	Aug. 17, 1875
3,001	Carnrick, John, Bayonne, N. J. Medicine	Aug. 25, 1875	Oct. 5, 1875
2,603	Carrick & Co., David, Philadelphia, Pa. Crackers, biscuits, cakes, &c.	May 19, 1875	June 1, 1875
2,791	Carsley, Hiram, Lynn, Mass. Broom and tool holders	June 30, 1875	July 27, 1875
2,520	Cassidy, John E., Boston, Mass. Whisky	Apr. 8, 1872	May 18, 1875
2,951	Cassidy, John E., Watertown, Mass. Whisky	July 31, 1875	Sept. 21, 1875
3,061	Same	July 31, 1875	Oct. 19, 1875
2,952	Chadwick, Robert, Lower Merion, Pa. Miner's lamp wick	July 22, 1875	Sept. 21, 1875
3,150	Chamberlain, Elizabeth E., Portland, Me. Medicine	Oct. 25, 1875	Nov. 23, 1875
2,314	Chesebrough & Burrows, Philadelphia, Pa. Lard, beef-tongues, hams, and other cured meats	Mar. 9, 1875	Mar. 23, 1875
2,463	Chevalier & Co., F., San Francisco, Cal. Whisky	Sept. 4, 1872	May 11, 1875
2,280	Chipman & Co., George W., Boston, Mass. Carpet-lining and stair-pads	Feb. 26, 1875	Mar. 9, 1875
2,365	Clark & Co., Buffalo, N. Y. Builder's hardware	Mar. 4, 1875	Apr. 13, 1875
2,813	Same	Aug. 4, 1875	Aug. 10, 1875
2,894	Same	July 30, 1875	Aug. 31, 1875
2,386	Clark & Co., William M., Boston, Mass. Medicine	Apr. 5, 1875	Apr. 20, 1875
2,836	Clark & Huntington, New York, N. Y. Baking-powder	Apr. 2, 1875	Aug. 24, 1875
2,420	Clark, Giles O., College Point, N. Y., assignor to G. O. Clark & Co. Liniment	July 30, 1872	May 4, 1875
2,521	Clark, James L., Oshkosh, Wis. Friction-matches	Sept. 14, 1872	May 18, 1875
2,545	Clark Thread Company, Newark, N. J. Spool-thread	Aug. 3, 1872	May 18, 1875
2,546	Same	Aug. 3, 1875	May 18, 1875
2,703	Clauberg, Wilhelm, Solingen, Prussia. Cutlery and surgical instruments	May 11, 1872	July 6, 1875
2,953	Cleis, George, Goshen, Ind. Liniment	July 19, 1875	Sept. 21, 1875
2,749	Clemson, F. C., Philadelphia, Pa. Bitters	Apr. 23, 1875	July 20, 1875
2,547	Cleveland, Orestes, Jersey City, N. J. Lead-pencils	Aug. 10, 1872	May 18, 1875
2,548	Same	Aug. 10, 1872	May 18, 1875
2,549	Same	Aug. 10, 1872	May 18, 1875
2,550	Same	Aug. 10, 1872	May 18, 1875
2,551	Same	Aug. 10, 1872	May 18, 1875
2,552	Same	Aug. 10, 1872	May 18, 1875
2,553	Same	Aug. 10, 1872	May 18, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,554	Cleveland, Orestes, Jersey City, N. J. Lead-pencils	Aug. 10, 1872	May 18, 1875
2,555	Same.....same	Aug. 10, 1872	May 18, 1875
2,556	Same.....Lead	Aug. 10, 1872	May 18, 1875
2,557	Same.....Lead-pencils	Aug. 10, 1872	May 18, 1875
2,675	Cluett, Bro. & Co., George B., Troy, N. Y. Bosom-shirts	June 7, 1875	June 15, 1875
2,213	Coats, J. & P., Paisley, Scotland. Spool-cotton	Jan. 25, 1875	Feb. 9, 1875
3,282	Same.....Counter-boxes for spool-cotton	Dec. 22, 1875	Dec. 28, 1875
3,193	Coffin & Woodward, Boston, Mass. Pumps	Nov. 22, 1875	Dec. 7, 1875
3,009	Cohen, Andrew J., Philadelphia, Pa. Champagne wine	Aug. 19, 1875	Oct. 5, 1875
3,126	Cohen, John B., Philadelphia, Pa. Cigars	Aug. 26, 1875	Nov. 9, 1875
2,750	Coleman, H. Dudley, New Orleans, La. Corn and wheat mills	June 11, 1872	July 20, 1875
2,578	Colgate & Co., New York, N. Y. Soap, toilet preparations, &c	July 8, 1872	May 25, 1875
2,579	Same.....same	July 8, 1872	May 25, 1875
3,079	Collender, Hugh W., Darien, Conn. Billiard-tables	Sept. 17, 1875	Oct. 19, 1875
2,558	Comstock, Castle & Co., Quincy, Ill. Stoves	Dec. 10, 1870	May 18, 1875
2,209	Consolidated Tobacco Company, Gilroy, Cal. Cigars and tobacco	Jan. 27, 1875	Feb. 2, 1875
3,007	Consolidated Tobacco Company, San Francisco and Gilroy, Cal. Tobacco and cigars	July 3, 1875	Oct. 5, 1875
3,008	Same.....same	July 3, 1875	Oct. 5, 1875
3,085	Same.....Manufactured tobacco and cigars	Oct. 2, 1875	Oct. 26, 1875
2,385	Conway, William, Philadelphia, Pa. Soap	Apr. 9, 1875	Apr. 20, 1875
2,665	Cook, J. W. & V., Clifton, Oreg. Salted, pickled, and preserved salmon	June 5, 1875	June 15, 1875
3,194	Cooley, Bigelow & Nichols, New York, N. Y. Corset-clasp	Nov. 18, 1875	Dec. 7, 1875
2,165	Copcutt & Co., W. H., Yonkers, N. Y. Sewing-silk and twist	Jan. 4, 1875	Jan. 12, 1875
2,166	Same.....same	Jan. 4, 1875	Jan. 12, 1875
2,319	Corbett, Otis, Chicago, Ill. Washing-powder	Mar. 11, 1875	Mar. 30, 1875
2,262	Corbett, Scoville & Co., Chicago, Ill. Washing-powder	Apr. 21, 1874	Mar. 2, 1875
3,256	Corwin, John M., Brooklyn, N. Y. India-rubber goods	Nov. 16, 1874	Dec. 21, 1875
2,268	Couch, Cordelia, New Haven, Conn. Liniment	Feb. 16, 1875	Mar. 2, 1875
2,658	Cowles & Co., C., New Haven, Conn. Carriage-hardware	May 20, 1875	May 8, 1875
2,735	Coyle, Laughlin & Co., Philadelphia, Pa. Roasted and ground coffee and ground spices	June 28, 1875	July 13, 1875
2,827	Craig, John A., Philadelphia, Pa. Medicine	June 19, 1875	Aug. 17, 1875
2,814	Crittenton, Charles N., New York, N. Y. Insect-powder	May 26, 1875	Aug. 10, 1875
2,815	Same.....Soap	June 12, 1875	Aug. 10, 1875
2,906	Crocker, Lemuel L., Buffalo, N. Y. Fertilizers	July 12, 1875	Sept. 7, 1875
2,862	Crommelin, Theodore, New York, N. Y. Brackets, children's saving-banks, &c	Jan. 23, 1874	Aug. 31, 1875
2,522	Culter & Proctor, Peoria, Ill. Stoves and stove-trimmings	Nov. 18, 1872	May 18, 1875
2,198	Cunningham, Robert, San Francisco, Cal. Tea	Oct. 12, 1874	Feb. 2, 1875
3,152	Cupples & Co., Samuel, Saint Louis, Mo. Axle-grease	Sept. 16, 1875	Nov. 23, 1875
2,465	Daddow, Samuel H., Saint Clair, Pa. Blasting squibs and fuses	Oct. 21, 1872	May 11, 1875
2,192	Daggett, Handel N., Attleborough, Mass. Worsted braids	Dec. 14, 1874	Jan. 26, 1875
2,329	Daly & Co., P. A., New York, N. Y. Silk fabrics	Mar. 25, 1875	Mar. 30, 1875
2,863	Davis & Co., W. C., Cincinnati, Ohio. Wood-stoves for cooking purposes	July 31, 1875	Aug. 31, 1875
3,153	Davis & Son, Perry, Providence, R. I. Medicine	July 25, 1871	Nov. 23, 1875
2,604	Day & Co., Leonard, Minneapolis, Minn. Flour	May 8, 1875	June 1, 1875
2,605	Same.....same	May 8, 1875	June 1, 1875
2,606	Same.....same	May 8, 1875	June 1, 1875
2,607	Day, Rollins & Co., Minneapolis, Minn. Flour	Apr. 17, 1875	June 1, 1875
2,608	Same.....same	Apr. 5, 1875	June 1, 1875
2,609	Same.....same	Apr. 17, 1875	June 1, 1875
2,610	Same.....same	Apr. 17, 1875	June 1, 1875
2,228	De Bary & Co., F., New York, N. Y. Cigars	Feb. 1, 1875	Feb. 16, 1875
2,466	Same.....Champagne wine	Dec. 21, 1872	May 11, 1875
2,467	Same.....Cigars	Jan. 18, 1873	May 11, 1875
2,500	Same.....same	Apr. 19, 1875	May 25, 1875
2,659	Same.....same	May 8, 1875	June 8, 1875
2,666	Same.....same	May 12, 1875	June 15, 1875
2,925	Same.....same	June 21, 1875	Sept. 14, 1875
2,926	Same.....same	June 21, 1875	Sept. 14, 1875
2,776	De Ford & Thayer, Baltimore, Md. Leaf-tobacco	July 13, 1875	July 20, 1875
2,907	De Forest, William H., New York, N. Y. Silk goods	July 22, 1875	Sept. 7, 1875
2,400	De Grieff & Co., A., New York, N. Y. Black silk dress-goods	Apr. 12, 1875	Apr. 20, 1875
2,254	Deland, Annie, New York, N. Y. Cosmetic	Feb. 13, 1875	Feb. 23, 1875
2,837	Deming, Joseph C., Norfolk, Va. Stationery	July 31, 1875	Aug. 24, 1875
2,908	Detroit Polish Company, Detroit, Mich. Polishing-powder	Aug. 18, 1875	Sept. 7, 1875
3,010	Devlin & Co., New York, N. Y. Overcoats	Sept. 25, 1875	Oct. 5, 1875
3,011	Same.....same	Sept. 25, 1875	Oct. 5, 1875
3,012	Same.....same	Sept. 25, 1875	Oct. 5, 1875
3,225	Dewey & Co., A. G., Hartford, Vt. Satinets or woolen cloths	Dec. 6, 1875	Dec. 14, 1875
3,226	Same.....same	Dec. 6, 1875	Dec. 14, 1875
2,777	Dick, Charles J. A., Pittsburgh, Pa. Bronze-alloy and articles made therefrom	July 10, 1874	July 20, 1875
3,002	Dick, Charles J. A., Philadelphia, Pa. Metallic alloys and articles of use or ornament made therefrom	Aug. 7, 1875	Oct. 5, 1875
3,080	Dillingham, Horace E., New York, N. Y. Fancy knit woolen goods	June 30, 1875	Oct. 19, 1875
2,205	Dittmer, Frederick, Detroit, Mich. Cigars	Jan. 22, 1875	Feb. 2, 1875
2,559	Duckum & Son, Thomas, New York, N. Y. Medicated brandies	Apr. 30, 1875	May 18, 1875
3,131	Dodd, Frederick, Philadelphia, Pa. Hats, caps, and hatters' supplies	Oct. 30, 1875	Nov. 16, 1875
2,287	Dorman, Will B., Georgetown, Mass. Perfumery	Jan. 13, 1875	Mar. 16, 1875
3,172	Douglas & Co., Richard, New York, N. Y. Lamp chimneys and shades	Sept. 23, 1875	Nov. 30, 1875
2,851	Douglas Axe Manufacturing Company, Douglas, Mass. Axes, &c	Dec. 8, 1870	Aug. 24, 1875
2,852	Same.....same	Dec. 8, 1870	Aug. 24, 1875
2,176	Douglas, W. & B., Middletown, Conn. Pumps	Jan. 12, 1875	Jan. 19, 1875
2,177	Same.....same	Jan. 12, 1875	Jan. 19, 1875
2,178	Same.....same	Jan. 12, 1875	Jan. 19, 1875
2,828	Douglass & Co., William B., Washington, D. C. Medicine	June 20, 1872	Aug. 17, 1875
3,154	Downie, William, Boston, Mass. Lubricating-oils	Oct. 22, 1875	Nov. 23, 1875
2,560	Drisler, Furman & Alexander, New York, N. Y. Baking-powder	Apr. 22, 1875	May 18, 1875
2,807	Dugdale & Girvin, Baltimore, Md. Fertilizer	Nov. 9, 1870	Aug. 3, 1875
2,808	Same.....same	Nov. 9, 1870	Aug. 3, 1875
3,173	Dumm, Abraham B., Zanesville, Ohio. Furniture-polish	Sept. 4, 1875	Nov. 30, 1875
2,691	Dunbar & Sons, G. W., New Orleans, La. Cordials, sirups, and preserves	May 31, 1875	June 22, 1875
2,704	Same.....Anisette	May 24, 1875	July 6, 1875
2,705	Same.....same	May 24, 1875	July 6, 1875
3,105	Dunbar, McMaster & Co., Gilford, Ireland. Linen threads	Sept. 16, 1875	Nov. 2, 1875
2,167	Dundas, Dick & Co., New York, N. Y. Medicines	Jan. 2, 1875	Jan. 12, 1875
2,247	Dunham, William E., Fall River, Mass. Silver-polish	Jan. 14, 1875	Feb. 23, 1875
3,257	Dunn, John, Orange, N. J. Shovels and spades	Dec. 6, 1875	Dec. 21, 1875
3,042	Durand, Dominique, New York, N. Y. Silvered glass	Sept. 6, 1875	Oct. 19, 1875
2,263	Durkee & Co., E. R., New York, N. Y. Food made from wheat	Feb. 20, 1875	Mar. 2, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,320	Dutcher Temple Company, Hopedale, Mass. Loom-templates	Aug. 2, 1871	Mar. 30, 1875
3,132	Duwel, Charles, Cincinnati, Ohio. Smoking-tobacco	Oct. 23, 1875	Nov. 16, 1875
2,468	Eagle Pencil Company, New York, N. Y. Lead-pencils	Apr. 29, 1875	May 11, 1875
2,410	Eagle Preserved Fish Company, New York, N. Y. Preserved fish	Apr. 10, 1875	Apr. 20, 1875
2,581	Eagle Tanning Works, Chicago, Ill. Leather	Aug. 18, 1871	May 25, 1875
2,330	Earle, James W., New York, N. Y. Coffee, spices, mustard, &c	Mar. 16, 1875	Mar. 30, 1875
2,909	Eastman & Brooke, Philadelphia, Pa. Washing-blue	Aug. 16, 1875	Sept. 7, 1875
2,179	Eddy Brothers, New York, N. Y. Soap, perfumery, &c	Dec. 28, 1874	Jan. 19, 1875
2,469	Emmert, William P., Freeport, Ill. Churns	May 1, 1875	May 11, 1875
2,891	Empire Mill Company, Saint Louis, Mo. Flour	Aug. 14, 1875	Aug. 31, 1875
3,235	Same	Dec. 3, 1875	Dec. 14, 1875
3,174	Eppley, Francis M., Newark, N. J. Medicated whisky	Nov. 13, 1875	Nov. 30, 1875
3,195	Ernst, Henry, New York, N. Y. Bitters	Nov. 19, 1875	Dec. 7, 1875
2,523	Estey & Co., J., Brattleborough, Vt. Stop for reed-organs	Dec. 29, 1871	May 18, 1875
2,524	Same	Sept. 7, 1871	May 18, 1875
2,305	Evans Brothers, Cincinnati, Ohio. Hams, &c	Jan. 24, 1873	Mar. 23, 1875
2,838	Evans, Clow, Dalzell & Co., Pittsburgh, Pa. Wrought-iron pipe	Sept. 1, 1870	Aug. 24, 1875
2,470	Evans, Lippencot & Cunningham, Cincinnati, Ohio. Hams	June 15, 1872	May 11, 1875
2,611	Excelsior Flint Glass Company, Pittsburgh, Pa. Glass lamp-chimneys	Apr. 19, 1875	June 1, 1875
2,612	Same	Apr. 19, 1875	June 1, 1875
2,561	Excelsior Needle Company, Wolcottville, Conn. Sewing-machine needles	Oct. 22, 1873	May 18, 1875
3,133	Faber, Eberhard, Port Richmond, N. Y. Rubber erasers	Nov. 4, 1875	Nov. 16, 1875
2,573	Fairbank & Co., N. K., Chicago, Ill. Lard, lard-oil, and neat's-foot oil	May 11, 1875	May 18, 1875
3,043	Falk, M., New York, N. Y. Tobacco and cigars	Aug. 11, 1875	Oct. 19, 1875
2,281	Farr Alpaca Company, Holyoke, Mass. Alpacas	Jan. 28, 1875	Mar. 9, 1875
2,525	Farrand, Williams & Co., Detroit, Mich. Paints	May 8, 1875	May 15, 1875
3,155	Farrington & Schmahl, Chicago, Ill. Cigars	July 22, 1875	Nov. 23, 1875
3,156	Same	July 22, 1875	Nov. 2, 1875
3,210	Farrington, Campbell & Co., Detroit, Mich. Washing-soap	Nov. 23, 1875	Dec. 7, 1875
3,227	Farrington, William P., Providence, R. I. Cigars	Dec. 6, 1875	Dec. 14, 1875
2,954	Felder, Charles, Newark, N. J. Fluting-machines	July 31, 1875	Sept. 21, 1875
2,199	Feldman & Schnurman, Allentown, Pa. Cigars	Jan. 18, 1875	Feb. 2, 1875
3,106	Ferris, Frank A., New York, N. Y. Smoked and pickled meats	Oct. 8, 1875	Nov. 2, 1875
3,175	Fick & Chase, Baltimore, Md. Canned oysters, fruits, and vegetables	Nov. 17, 1875	Nov. 30, 1875
3,676	Filbert, Lewis S., Philadelphia, Pa. Pavements	May 6, 1875	June 15, 1875
2,613	Fillette, Theodore, New York, N. Y. Bitters	May 22, 1875	June 1, 1875
2,706	Filley, Giles F., Saint Louis, Mo. Cooking-stove	May 13, 1871	July 6, 1875
2,288	Filley, Marcus L., Lansingburgh, N. Y. Cooking-stove	Dec. 23, 1874	Mar. 16, 1875
2,429	Finkle & Lyon Manufacturing Company, Middletown, Conn. Sewing-machines	Dec. 20, 1871	May 4, 1875
2,185	Fischer & Co., C. H., New York, N. Y. Prepared washing-soda	Jan. 7, 1875	Jan. 26, 1875
2,219	Same	Jan. 7, 1875	Feb. 9, 1875
2,789	Same	July 2, 1875	Sept. 28, 1875
2,220	Fisher, J. Hyde, Chicago, Ill. Refrigerators	Jan. 29, 1875	Feb. 9, 1875
3,029	Fisk & Co., L. I., Springfield, Mass. Soap	Sept. 1, 1875	Oct. 11, 1875
2,221	Flaxland & Co., Edouard, Paris, France. Fancy and other dry goods	Feb. 2, 1875	Feb. 9, 1875
2,222	Same	Feb. 2, 1875	Feb. 9, 1875
3,265	Fleitmann & Co., New York, N. Y. Italian cloth and farmer's satin	Dec. 11, 1875	Dec. 21, 1875
3,266	Same	Dec. 11, 1875	Dec. 21, 1875
2,471	Fleming, Cochran, Sewickley, Pa. Medicine	Mar. 23, 1872	May 11, 1875
2,472	Same	Mar. 23, 1872	May 11, 1875
2,526	Same	Mar. 23, 1872	May 18, 1875
2,751	Flues, Spielman & Wolff, New York, N. Y. Braids	May 31, 1875	July 20, 1875
2,401	Focht & Co., D., Philadelphia, Pa. Coffees, teas, and spices	Apr. 10, 1875	Apr. 20, 1875
2,434	Same	Apr. 26, 1875	May 4, 1875
2,864	Foley, John, Dayton, Ohio. Balsam	June 14, 1875	Aug. 31, 1875
2,865	Same	June 14, 1875	Aug. 31, 1875
2,255	Foote, Arthur W., Brooklyn, N. Y. Cigars	Feb. 5, 1875	Feb. 23, 1875
2,895	Foote, Truman S., New Haven, Conn. Tonics	July 19, 1875	Aug. 31, 1875
2,421	Forest River Lead Company, Salem, Mass. Lead	May 16, 1872	May 4, 1875
2,256	Forster & Stowell, Philadelphia, Pa. Tooth-paste	Feb. 6, 1875	Feb. 23, 1875
2,306	Fort Plain Spring and Axle Works, Fort Plain, N. Y. Steel springs and axles	Dec. 24, 1872	Mar. 23, 1875
2,956	Foster & Merrill, Boston, Mass. Shirts	Aug. 6, 1875	Sept. 21, 1875
2,955	Foster, George F., Brooklyn, N. Y. Spool-thread	Aug. 6, 1875	Sept. 21, 1875
2,677	Foster, Hilson & Co., New York, N. Y. Cigars	May 15, 1875	June 15, 1875
2,186	Fougera & Co., E., New York, N. Y. Drugs	Jan. 14, 1875	Jan. 26, 1875
3,228	Foundry Supply Company, Boston, Mass. Mineral paint	Oct. 27, 1875	Dec. 14, 1875
2,473	Fowle, Henry D., Boston, Mass. Medical preparation	Apr. 1, 1875	May 11, 1875
2,866	Fowler, Anderson, New York, N. Y. Lard, pork, &c	June 22, 1875	Aug. 31, 1875
2,736	Fox & Kohn, L., New York, N. Y. Wine	June 21, 1875	July 13, 1875
3,107	Fralick & Meese, Saint Paul, Minn. Books	Oct. 2, 1875	Nov. 2, 1875
2,678	Frank & Co., Buffalo, N. Y. Combined planing and matching machines	Apr. 29, 1875	June 15, 1875
2,474	Franke, Louis, New York, N. Y. Silk goods	Apr. 3, 1875	May 11, 1875
2,151	Freedman, Hesslein & Co., Detroit, Mich. Cigars	Dec. 12, 1874	Jan. 5, 1875
3,157	Same	Aug. 24, 1875	Nov. 23, 1875
3,158	Same	Aug. 24, 1875	Nov. 23, 1875
2,402	Freiberg & Workum, Cincinnati, Ohio. Distilled spirits	Mar. 29, 1875	Apr. 20, 1875
2,910	Same	Aug. 24, 1870	Sept. 7, 1875
2,790	French, Richards & Co., Philadelphia, Pa. Liquidand paste paints	July 17, 1875	Sept. 28, 1875
2,679	Frost & Co., George, Boston, Mass. Articles of ladies' and children's wear	June 8, 1875	June 15, 1875
2,475	Fuller & Co., D. B., Philadelphia, Pa. Cakes, crackers, and biscuits	May 5, 1875	May 11, 1875
2,108	Fuller, Warren & Co., Troy, N. Y. Cooking-stoves	Jan. 2, 1875	Jan. 12, 1875
2,360	Same	Mar. 27, 1875	Apr. 6, 1875
2,570	Galena Oil Works, Franklin, Pa. Lubricating-oil	Feb. 17, 1872	May 18, 1875
2,799	Gall, Joseph, New York, N. Y. Spectacles and eyeglasses	Feb. 5, 1875	Aug. 3, 1875
2,829	Galt, William M., Washington, D. C. Flour	July 23, 1871	Aug. 17, 1875
2,340	Ganz, George F., New York, N. Y. Baking-powder	Apr. 16, 1872	Apr. 6, 1875
2,582	Garbutt & Co., Elmer H., New York, N. Y. Coffee, spices, baking-powder, &c	Apr. 18, 1872	May 25, 1875
3,229	Garrett, William H., Saint Louis, Mo. Wagons	Dec. 3, 1875	Dec. 14, 1875
3,108	Gaulleir, Henry, New York, N. Y. Cigars and tobacco	Oct. 11, 1875	Nov. 2, 1875
2,928	Gennert, Gottlieb, Greenville, N. J. Albumen-paper	Aug. 6, 1875	Sept. 14, 1875
2,867	Gibson & Tyler, Minneapolis, Minn. Woven woolen fabrics	July 31, 1875	Aug. 31, 1875
3,242	Gilbert & Co., John, Philadelphia, Pa. Druggists' preparations	Oct. 28, 1875	Dec. 14, 1875
2,206	Gilbert, Colgate, Buffalo, N. Y. Starch	Jan. 11, 1875	Feb. 2, 1875
2,583	Gill & Looz, Boston, Mass. Gin	Oct. 26, 1871	May 25, 1875
2,321	Gillender & Co., Arthur, Hopedale, Mass. Fine-cut chewing-tobacco	Feb. 19, 1872	Mar. 30, 1875
2,667	Gillespie, Zeller & Co., Philadelphia, Pa. Coffee	June 2, 1875	June 15, 1875
2,839	Gillet & Co., Martin, New York, N. Y., and Baltimore, Md. Tea	July 12, 1875	Aug. 24, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,840	Gillet & Co., Martin, New York, N. Y., and Baltimore, Md. Fans.....	July 17, 1875	Aug. 24, 1875
2,841	Same.....same.....	July 17, 1875	Aug. 24, 1875
2,842	Same.....same.....	July 17, 1875	Aug. 24, 1875
2,843	Same.....same.....	July 29, 1875	Aug. 24, 1875
2,844	Same.....same.....	July 29, 1875	Aug. 24, 1875
2,366	Gillett, Allen H., Syracuse, N. Y. Whisky.....	Apr. 3, 1875	Apr. 13, 1875
2,752	Same.....same.....	Jan. 26, 1871	July 20, 1875
2,927	Gilmore & Co., A. G., Scranton, Pa. Spices.....	July 14, 1875	Sept. 14, 1875
2,638	Gilmore & Son, W., Pavilion, N. Y. Gilmore's neuralgia-cure.....	Apr. 27, 1875	June 8, 1875
2,809	Gladstone & Ferguson, New York, N. Y. Fever and ague cure.....	June 19, 1875	Aug. 3, 1875
3,086	Glahn, Frederick, Green Bay, Wis. Cigars.....	Sept. 10, 1875	Oct. 26, 1875
2,680	Glazier, Brother & Co., John J., Philadelphia, Pa. Hosiery.....	May 17, 1875	June 15, 1875
2,403	Glen Cove Starch Manufacturing Company, New York, N. Y. Starch.....	Mar. 6, 1875	Apr. 20, 1875
2,404	Same.....Preparation of corn-flour.....	Apr. 10, 1875	Apr. 20, 1875
2,639	Same.....Corn-flour.....	May 28, 1875	June 8, 1875
2,939	Same.....same.....	Sept. 10, 1875	Sept. 14, 1875
2,845	Glines, George E., Brooklyn, N. Y. Paint.....	May 5, 1875	Aug. 24, 1875
3,196	Globe Oil Company, Parkersburgh, W. Va. Lubricating-oils.....	Nov. 19, 1875	Dec. 7, 1875
3,159	Glover & Co., J., New York, N. Y. Oils and pastes.....	Nov. 6, 1875	Nov. 23, 1875
2,753	Goddard, Edward A., Brooklyn, N. Y. Gimlet.....	May 21, 1875	July 20, 1875
2,257	Goldsmith & Newburgh, Cincinnati, Ohio. Cigars.....	Feb. 18, 1875	Feb. 23, 1875
2,584	Goldstone, Moses A., Toronto, Canada. Chemical compound.....	May 10, 1875	May 25, 1875
2,754	Goodwin & Co., George C., Boston, Mass. Cologne.....	May 28, 1875	July 20, 1875
3,030	Gordon, Gerald, Philadelphia, Pa. Food for horses and cattle.....	Aug. 30, 1875	Oct. 11, 1875
2,289	Gorrell, Bonfield, Hopewell, Md. Medicine.....	Mar. 9, 1875	Mar. 16, 1875
2,264	Gowdey & Co., C. L., New York, N. Y. Medicine.....	Feb. 13, 1875	Mar. 2, 1875
2,331	Graff, Watkins & Co., Philadelphia, Pa. Boots and shoes.....	Mar. 24, 1875	May 30, 1875
3,044	Graham, George W., Philadelphia, Pa. Leather-preservative and water-proof polish.....	Aug. 18, 1875	Oct. 19, 1875
2,422	Graves, Chester H., Boston, Mass. Alcohol.....	Nov. 20, 1871	May 4, 1875
3,003	Green, Lewis M., Woodbury, N. J. Medical preparation.....	Sept. 18, 1875	Oct. 5, 1875
3,004	Same.....Medical preparations.....	Sept. 18, 1875	Oct. 5, 1875
2,921	Greenville Manufacturing Company, Providence, R. I. Cotton fabrics.....	Aug. 31, 1875	Sept. 7, 1875
3,134	Griffith & Byrne, New York, N. Y. Printing-press.....	Oct. 19, 1875	Nov. 16, 1875
3,031	Griffith & Drakeley, Baltimore, Md. Canned fruits and vegetables.....	Sept. 15, 1875	Oct. 11, 1875
2,341	Grover and Baker Sewing-Machine Company, Boston, Mass. Sewing-machines.....	Aug. 23, 1872	Apr. 6, 1875
2,660	Guerlain, Aimé, Paris, France. Perfumeries, cosmetics, and soaps.....	Feb. 25, 1875	June 8, 1875
3,087	Haas, George, New York, N. Y. Lead-pencils.....	Sept. 25, 1875	Oct. 26, 1875
2,574	Haenel, F., New Orleans, La. Cigars.....	May 12, 1875	May 18, 1875
2,180	Hainemann & Steiner, New York, N. Y. Paints.....	Nov. 30, 1874	Jan. 19, 1875
2,527	Haines, John P., Irvington, N. Y. Oil-cans.....	Apr. 3, 1871	May 18, 1875
3,109	Haley & Co., Charles C., New York, N. Y. Pop-beer.....	Oct. 2, 1875	Nov. 2, 1875
2,342	Hall & Kennell, New York, N. Y. Moth-proof fabric.....	Mar. 13, 1875	Apr. 6, 1875
3,160	Halliday Bros., Cairo, Ill. Flour.....	Nov. 8, 1875	Nov. 23, 1875
3,161	Same.....same.....	Nov. 8, 1875	Nov. 23, 1875
3,162	Same.....same.....	Nov. 8, 1875	Nov. 23, 1875
2,476	Hamblet, James W., Brooklyn, N. Y. Coffee.....	May 3, 1875	May 11, 1875
2,160	Hamilton & Co., Fort Wayne, Ind. Baking-powders.....	Dec. 18, 1874	Jan. 12, 1875
2,332	Hamilton Woolen Company, Southbridge, Mass. Cotton prints.....	Mar. 22, 1875	Mar. 30, 1875
2,477	Same.....Cotton and woolen fabrics.....	July 5, 1872	May 11, 1875
2,478	Same.....same.....	July 5, 1872	May 11, 1875
2,528	Same.....Cotton, woolen, and other fabrics.....	Feb. 28, 1872	May 18, 1875
2,757	Same.....Cotton prints.....	Apr. 9, 1875	July 20, 1875
2,957	Hankinson, William H., New York, N. Y. Carpets.....	Feb. 17, 1875	Sept. 21, 1875
2,307	Harbison & Walker, Pittsburgh, Pa. Fire-brick.....	Mar. 9, 1875	Mar. 23, 1875
2,308	Same.....same.....	Mar. 9, 1875	Mar. 23, 1875
2,810	Harkness, Charles, Cincinnati, Ohio. Candles.....	June 5, 1871	Aug. 3, 1875
3,045	Harley & Co., Parker C., Arlington, Mass. Copied pictures.....	Aug. 12, 1875	Oct. 19, 1875
2,290	Harned & Co., Brooklyn, N. Y. Cigars.....	Mar. 5, 1875	Mar. 16, 1875
2,367	Harp, Robert J., New Orleans, La. Writing-paper.....	Apr. 3, 1875	Apr. 13, 1875
3,189	Harrell, William K., Thomas B., and De Witt C. Chamberlain, Clarinda, Iowa. Plows.....	Nov. 1, 1875	Nov. 30, 1875
3,081	Harris & Co., J. N., Cincinnati, Ohio. Medicine.....	July 25, 1875	Oct. 19, 1875
2,214	Harris Brothers, New York, N. Y. Kid gloves.....	Jan. 25, 1875	Feb. 9, 1875
2,269	Same.....Kid or lambskin gloves.....	Dec. 8, 1874	Mar. 2, 1875
2,758	Harris, Richmond & Shafer, New York, N. Y. Clothiers' and tailors' trimmings.....	May 27, 1871	July 20, 1875
2,753	Same.....same.....	May 27, 1871	July 20, 1875
2,816	Same.....same.....	May 27, 1871	Aug. 10, 1875
2,737	Hart, Hugh I., Washington, D. C. Roach and insect powders.....	June 30, 1875	July 13, 1875
2,755	Hartman & Co., S. B., Lancaster, Pa. Bitters.....	Mar. 8, 1871	July 20, 1875
2,529	Hawley, Alfred A., Methuen, Mass. Water-proof material.....	Jan. 31, 1872	May 18, 1875
2,562	Haworth & Williams, Newark, N. J. Cigars.....	Sept. 26, 1872	May 18, 1875
3,025	Hay Company, Allan, New York, N. Y. Soap.....	Sept. 22, 1875	Oct. 11, 1875
2,788	Hay, Henry H., Portland, Me. Medicine.....	Jan. 3, 1871	July 27, 1875
3,110	Healy, Patrick, New York, N. Y. Gloves.....	Oct. 8, 1875	Nov. 2, 1875
3,124	Heath & Co., Doctor, Washington, D. C. Medical compound.....	Sept. 25, 1875	Nov. 2, 1875
2,640	Hecht Brothers, New York, N. Y. Fans.....	May 13, 1875	June 8, 1875
2,641	Same.....same.....	May 13, 1875	June 8, 1875
2,642	Same.....same.....	May 13, 1875	June 8, 1875
2,643	Same.....same.....	May 13, 1875	June 8, 1875
3,046	Hedges & Co., W. N., Springfield, Ohio. Hair-dressing preparation.....	Dec. 24, 1874	Oct. 19, 1875
2,681	Heidet, George F., New York, N. Y. Toy balloons.....	May 20, 1875	June 15, 1875
2,682	Same.....same.....	May 20, 1875	June 15, 1875
2,696	Same.....same.....	May 20, 1875	July 6, 1875
2,229	Heinrich, Charles, Plainfield, N. J. Salves.....	Feb. 18, 1875	Feb. 16, 1875
2,265	Heinz, Noble & Co., Pittsburgh, Pa. Pickles and vinegar.....	Feb. 18, 1875	Mar. 2, 1875
2,911	Heiter & Gans, New York, N. Y. Umbrellas and parasols.....	Aug. 6, 1875	Sept. 7, 1875
2,152	Hellenberg & Loewenstein, New York, N. Y. Neck-ties.....	Dec. 24, 1874	Jan. 5, 1875
2,405	Heller & Brothers, Newark, N. J. Rasps and files.....	Apr. 5, 1875	Apr. 20, 1875
2,800	Heller & Merz, New York, N. Y. Wash-blue.....	May 8, 1875	Aug. 3, 1875
2,801	Same.....Ultramarine blue.....	May 8, 1875	Aug. 3, 1875
3,032	Helmick, Frederick W., Cincinnati, Ohio. Cabinet-organs.....	Sept. 16, 1875	Oct. 11, 1875
2,756	Henarie, Daniel V. B., San Francisco, Cal. Whisky.....	Jan. 26, 1871	July 20, 1875
3,047	Hendrick, Eli E., Carbondale, Pa. Lubricating and illuminating oils.....	Sept. 22, 1875	Oct. 19, 1875
2,291	Henry, Curran & Co., John F., New York, N. Y. Medicine.....	Feb. 13, 1875	Mar. 6, 1875
2,791	Heppenheimer & Maurer, New York, N. Y. Cigars, &c.....	June 18, 1875	Sept. 28, 1875
2,760	Hernsheim, Simon, New Orleans, La. Leaf-tobacco.....	Feb. 27, 1871	July 20, 1875
2,868	Herzberg, Moritz, New York, N. Y. Bitters.....	July 9, 1875	Aug. 31, 1875
3,163	Heywood & Co., S. R., Worcester, Mass. Boots.....	Sept. 22, 1875	Nov. 23, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,274	Higganum Manufacturing Company, Higganum, Conn. Grinding-mills for fruit, &c.	Feb. 24, 1875	Mar. 2, 1875
2,853	Same..... Plows.....	Apr. 9, 1875	Aug. 24, 1875
3,211	Higgins & Co., Charles S., Brooklyn, N. Y. Soap	Apr. 30, 1875	Dec. 7, 1875
3,212	Same..... Laundry-soap.....	Nov. 27, 1875	Dec. 7, 1875
2,707	Hilebrand & Wolf, Philadelphia, Pa. Locks and hardware.....	Feb. 11, 1871	July 6, 1875
2,530	Hill & Co., James R., Concord, N. H. Harness.....	Nov. 14, 1871	May 18, 1875
2,464	Hill, Asa, deceased, by Ira Cole, administrator. Stopping for dental purposes.....	Mar. 30, 1875	May 11, 1875
2,585	Hinrichs, Charles F. A., New York, N. Y. Lamp-chimney.....	Nov. 3, 1871	May 25, 1875
3,111	Hinrichs, Charles F. A., Brooklyn, N. Y. Lamps.....	Oct. 16, 1875	Nov. 2, 1875
2,708	Hobart, John H., jr., Catawissa, Pa. Medal.....	Sept. 12, 1874	July 6, 1875
2,479	Hoffheimer Brothers, Cincinnati, Ohio. Whisky.....	Apr. 28, 1875	May 11, 1875
2,709	Same..... same.....	June 9, 1875	July 6, 1875
2,896	Holmes, John A., Boston, Mass. Medicine.....	Aug. 21, 1875	Aug. 31, 1875
2,710	Holmes, Thomas J., Boston, Mass. Atomizers for perfuming, &c.....	Aug. 24, 1871	July 6, 1875
3,267	Holtzmann & Deutschberger, New York, N. Y. Cigars and tobacco.....	Dec. 15, 1875	Dec. 21, 1875
2,711	Horner, Joshua, jr., Baltimore, Md. Fertilizers.....	Oct. 14, 1871	July 6, 1875
2,761	Hooper & Townsend, Philadelphia, Pa. Boiler-rivets.....	June 3, 1875	July 20, 1875
2,276	Hooper, Henry N., Dedham, Mass. Commercial fertilizers.....	Jan. 13, 1875	Mar. 9, 1875
2,614	Hopkins & Robinson Manufacturing Company, Akron, Ohio. Clay pipes.....	May 5, 1875	June 1, 1875
2,169	Hoppock & Co., A. E., Newark, N. J. Varnishes.....	Dec. 28, 1874	Jan. 12, 1875
3,135	Hostetter & Smith, Pittsburgh, Pa. Medicine.....	Mar. 29, 1871	Nov. 16, 1875
2,531	Houchin Manufacturing Company, New York, N. Y. Pocket cook-stoves.....	May 8, 1875	May 18, 1875
2,683	Hough, Henry C., Providence, R. I. Medicine.....	May 28, 1875	June 15, 1875
2,258	Houston, George P., Washington, D. C. Pocket spirit-stoves.....	Feb. 16, 1875	Feb. 23, 1875
3,088	Howard, Charles H., Randolph, Mass. Boots and shoes.....	Oct. 5, 1875	Oct. 26, 1875
3,005	Howes, Edward K., San Francisco, Cal. Coolers and refrigerators.....	Aug. 21, 1875	Oct. 5, 1875
2,282	Hubbard, Cyrus A., Haddam, Conn. Holland gin.....	Feb. 26, 1875	Mar. 9, 1875
2,668	Hunt, George S., Sacramento, Cal., and Benjamin F. Hunt, Saint Louis, Mo. Anti-friction metal.....	May 24, 1875	June 15, 1875
3,197	Hunt, George S. and Benjamin E., Saint Louis, Mo. Anti friction metal.....	Nov. 23, 1875	Dec. 7, 1875
3,198	Same..... same.....	Nov. 23, 1875	Dec. 7, 1875
2,615	Huntley, Holcomb & Heine, Silver Creek, N. Y. Bolting-cloths.....	May 10, 1875	June 1, 1875
2,181	Husbands, Joseph D., jr., Saint Louis, Mo. Fire-kindlers and prepared fuel.....	Jan. 14, 1875	Jan. 19, 1875
2,644	Hutchinson, Hannah S., Boston, Mass. Ladies' and children's dresses and under-garments.....	May 26, 1875	June 8, 1875
2,563	Hutchinson, Samuel, jr., Salem, Mass. Oiling apparatus.....	Apr. 22, 1872	May 18, 1875
2,869	Imbs, Meyer & Co., Saint Louis, Mo. Flour.....	June 16, 1875	Aug. 31, 1875
2,933	India Rubber Comb Company, New York and College Point, N. Y. Combs.....	June 2, 1875	Sept. 14, 1875
2,934	Same..... Goods made out of the hard compound of India rubber.....	June 2, 1875	Sept. 14, 1875
3,096	Same..... Combs, druggists' articles, &c., made of hard rubber.....	Sept. 28, 1875	Oct. 26, 1875
3,169	Same..... Combs, druggists' articles, and other goods made of hard rubber.....	Sept. 28, 1875	Nov. 23, 1875
3,170	India Rubber Comb Company, New York, N. Y. India-rubber combs.....	Oct. 26, 1875	Nov. 23, 1875
2,684	Ives, Beecher & Co., New York, N. Y. Brandy.....	May 15, 1875	June 15, 1875
2,480	I X L Metal Company, Saint Louis, Mo., and Sacramento, Cal. Anti-friction metal and journal-bearings.....	Jan. 27, 1873	May 11, 1875
2,200	Jackson & Brother, Oswald, New York, N. Y. Whiskies.....	Aug. 26, 1873	Feb. 2, 1875
2,363	Jackson & Co., James A., Saint Louis, Mo. Stomach-bitters.....	Aug. 23, 1870	Apr. 13, 1875
2,616	Jackson, Isaac L., New York, N. Y. Composition for printers' inking-rollers.....	May 21, 1875	June 1, 1875
2,322	Jacoby & Co., S., New York, N. Y. Cigars.....	Dec. 9, 1875	Mar. 30, 1875
2,631	Same..... same.....	May 20, 1877	June 8, 1875
2,632	Same..... same.....	May 26, 1875	June 8, 1875
2,816	Janney & Andrews, Philadelphia, Pa. Coffee, spices, and mustard.....	Aug. 17, 1875	Aug. 24, 1875
2,870	Jenkins & Brother, F. W., Pittsburgh, Pa. Flour.....	June 25, 1875	Aug. 31, 1875
2,871	Same..... same.....	June 14, 1875	Aug. 31, 1875
2,223	Jenkins, Capers & Co., Richmond, Va. Whisky.....	Feb. 1, 1875	Feb. 9, 1875
2,408	Jenkins, Raymond, Brooklyn, N. Y. Toys.....	Apr. 6, 1875	Apr. 20, 1875
2,292	Jenkins, Thomas C., Pittsburgh, Pa. Flour.....	Nov. 16, 1874	Mar. 16, 1875
2,872	Same..... same.....	Aug. 9, 1875	Aug. 31, 1875
2,387	Jennings & Co., E., Chicago, Ill. Shirts.....	Mar. 22, 1875	Apr. 20, 1875
2,153	Jervey, William E., New Orleans, La. Illuminating-oil.....	Dec. 21, 1874	Jan. 5, 1875
2,309	Jewett, Shearman & Co., Milwaukee, Wis. Baking-powder.....	Dec. 13, 1872	Mar. 23, 1875
2,230	Jewett, Sherman & Co., Milwaukee, Wis. Mustards.....	Feb. 3, 1875	Feb. 16, 1875
3,014	Jex & Co., William, New York, N. Y. Butter.....	Sept. 8, 1875	Oct. 5, 1875
3,176	Johnson, Sidney C., Detroit, Mich. Canned oysters.....	Aug. 7, 1875	Nov. 30, 1875
2,897	Johnson, William J., Newton, Mass. Force-pumps.....	July 29, 1875	Aug. 31, 1875
2,738	Jones & Lyman, Cleveland, Ohio. Platform-scales.....	May 8, 1875	July 13, 1875
2,268	Jones Brothers & Co., Richmond, Va. Manufactured cigars and tobacco.....	Dec. 11, 1875	Dec. 21, 1875
3,083	Jones, John W., Portland, Me. Hermetically-sealed goods.....	Aug. 13, 1875	Oct. 19, 1875
2,817	Jonniaux & Co., Ed., Brussels, Belgium. Gloves.....	June 28, 1873	Aug. 10, 1875
3,243	Juvenal, William A., Philadelphia, Pa. Axle-grease.....	Dec. 6, 1875	Dec. 14, 1875
2,388	Kahn, L. & M., New York, N. Y. Watch-movements.....	Apr. 8, 1875	Apr. 20, 1875
2,231	Kaiser, Julius, Pittsburgh, Pa. Medicine.....	Feb. 4, 1875	Feb. 16, 1875
2,315	Keith Paper Company, Turner's Falls, Mass. Account-book paper.....	Mar. 12, 1875	Mar. 23, 1875
2,481	Kemp, Day & Co., New York, N. Y. Canned goods.....	May 3, 1875	May 11, 1875
2,296	Kendall Manufacturing Company, Providence, R. I. Soap.....	Mar. 8, 1875	Mar. 16, 1875
2,316	Kerbs & Spiess, New York, N. Y. Cigars.....	Mar. 6, 1875	Mar. 23, 1875
2,685	Kibbe, Chaffee & Co., Philadelphia, Pa. Hosiery.....	June 5, 1875	June 15, 1875
3,033	Kidder & Co., William F., New York, N. Y. Fever and ague pad.....	July 22, 1875	Oct. 11, 1875
2,317	Kieper & Co., New York, N. Y. Ribbons.....	Mar. 1, 1875	Mar. 23, 1875
3,112	Kimball & Jewett, Shediac, Canada. Canned lobsters.....	Oct. 8, 1875	Nov. 2, 1875
2,617	Kinney, Francis S., New York, N. Y. Cigars, cheroots, and cigarettes.....	May 22, 1875	June 1, 1875
2,618	Same..... same.....	May 22, 1875	June 1, 1875
2,645	Same..... Cigars, cheroots, cigarettes, and smoking-tobacco.....	May 22, 1875	June 8, 1875
2,646	Same..... same.....	May 22, 1875	June 8, 1875
2,712	Same..... same.....	May 22, 1875	July 6, 1875
3,048	Kirk & Co., James S., Chicago, Ill. Soap.....	Aug. 20, 1875	Oct. 19, 1875
2,992	Kissling & Co., T. F. X., Lockport, N. Y. Medicine.....	Aug. 25, 1875	Sept. 23, 1875
2,762	Kittredge & Co., B., Cincinnati, Ohio. Double-barrel breech-loading guns.....	May 21, 1875	July 20, 1875
2,209	Kleinberger, Sigismund, New York, N. Y. Corsets.....	Apr. 10, 1875	Apr. 20, 1875
2,763	Kloman, Park & Co., Pittsburgh, Pa. Axes.....	May 5, 1875	July 20, 1875
3,213	Knapp, Burrell & Co., Portland, Oreg. Thrashing-machine.....	Nov. 10, 1875	Dec. 7, 1875
2,343	Knoepfel, William H., New York, N. Y. Bitters.....	Sept. 23, 1871	Apr. 6, 1875
2,344	Same..... same.....	Jan. 24, 1873	Apr. 6, 1875
3,177	Koch, Andrew, New York, N. Y. Bottles.....	Oct. 20, 1875	Nov. 30, 1875
3,164	Koch, Arnold, Pittsburgh, Pa. Bitters.....	Oct. 29, 1875	Nov. 23, 1875
2,619	Kohnle & Gerken, Philadelphia, Pa. Ale, porter, and beer.....	Apr. 13, 1875	June 1, 1875
2,958	Kraft & Co., Edward, New York, N. Y. Soap.....	Aug. 2, 1875	Sept. 21, 1875
3,136	Kraft & Co., J. G., Baltimore, Md. Canned goods.....	Sept. 13, 1875	Nov. 16, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
3, 113	Kremer Brothers & Co., Detroit, Mich. Cigars	Sept. 17, 1875	Nov. 2, 1875
2, 232	Kroeber, Florence, Hoboken, N. J. Clocks	Feb. 5, 1875	Feb. 16, 1875
2, 233	Same.....same	Feb. 5, 1875	Feb. 16, 1875
2, 234	Same.....same	Feb. 5, 1875	Feb. 16, 1875
2, 235	Same.....same	Feb. 5, 1875	Feb. 16, 1875
2, 236	Same.....same	Feb. 5, 1875	Feb. 16, 1875
2, 630	Kubely, John E., New York, N. Y. Lager-beer	Mar. 24, 1875	June 1, 1875
3, 040	Same.....Lager-beer, white-beer, ale, and porter	Sept. 18, 1875	Oct. 19, 1875
3, 049	Kumpf, Peter, Detroit, Mich. Cigars	Aug. 14, 1875	Oct. 19, 1875
2, 369	Kunkel, Edwin F., Philadelphia, Pa. Medicines	Mar. 27, 1875	Apr. 13, 1875
2, 836	Kwong On Cheong, San Francisco, Cal. Tea	June 26, 1871	Aug. 24, 1875
3, 214	Landsberg, Moses G., New York, N. Y. Bitters	Nov. 23, 1875	Dec. 7, 1875
2, 482	Langdon Manufacturing Company, Manchester, N. H. Shirtings, &c.	Feb. 28, 1872	May 11, 1875
2, 929	Langell, Daniel, Apple Creek, Ohio. Medical compound	June 23, 1875	Sept. 14, 1875
2, 345	Lathers, William, New York, N. Y. Spring beds	Mar. 13, 1875	Apr. 6, 1875
2, 930	Lathrop, Lebbens W., New York, N. Y. Machinery-bearings	June 26, 1875	Sept. 14, 1875
2, 873	Lautz Brothers & Co., Buffalo, N. Y. Soap	July 8, 1875	Aug. 31, 1875
3, 215	Same.....same	July 12, 1875	Dec. 7, 1875
2, 823	Lawrence & Sons, Daniel, Boston, Mass. Medford rum	Jan. 11, 1871	Aug. 10, 1875
2, 621	Lawson Chemical Company, Cleveland, Ohio. Medicine	Jan. 25, 1875	June 1, 1875
2, 635	Lazear & Co., Jesse, Baltimore, Md. Tobacco, cigars, and snuff	May 24, 1875	June 1, 1875
2, 411	Leach, James, Paskack, N. J. Commercial note-paper	Apr. 15, 1875	Apr. 17, 1875
2, 483	Lee & Brothers, Ridgewood, N. Y. Medicine	Jan. 14, 1871	May 11, 1875
3, 094	Lee Ping & Pon Jib, San Francisco, Cal. Teas	Sept. 29, 1875	Oct. 26, 1875
2, 802	Leidy, Francis D., Philadelphia, Pa. Washing-crystal	July 26, 1875	Aug. 3, 1875
2, 248	Leippe, Jacob A., Lancaster, Pa. Shafts, spokes, &c., for vehicles	Jan. 27, 1875	Feb. 23, 1875
2, 957	Leisler & Sommerhoff, New York, N. Y. Satin goods	June 26, 1875	Sept. 21, 1875
2, 370	Lessey & Young, Philadelphia, Pa. Corset-steels	Mar. 29, 1875	Apr. 13, 1875
2, 333	Les Sœurs de L'asile de la Providence de Montreal, Montreal, Canada. Cough-sirup	Mar. 24, 1875	May 30, 1875
3, 090	Lester Oil Company, New York, N. Y. Lubricating-oil	Sept. 18, 1875	Oct. 26, 1875
2, 960	Leszynsky & Troup, New York, N. Y. Gin	July 24, 1875	Sept. 21, 1875
3, 269	Levy, Isaac, New York, N. Y. Playing-cards	Dec. 13, 1875	Dec. 21, 1875
3, 270	Same.....same	Dec. 13, 1875	Dec. 21, 1875
3, 244	Lewis, Albert B., Coventry, R. I. Button	Dec. 1, 1875	Dec. 14, 1875
2, 182	Lewis & Co., Chicago, Ill. Table-sauce	Jan. 12, 1875	Jan. 19, 1875
3, 165	Lewis Brothers, San Francisco, Cal. Cigars	Sept. 13, 1875	Nov. 23, 1875
2, 739	Lewis, Brown & Co., Boston, Mass. Knitted goods	June 29, 1875	July 13, 1875
2, 238	Lewis, Ephraim G., Pittsylvania County, Va. Medicine	Feb. 5, 1875	Feb. 16, 1875
3, 258	Libby & Co., William H., New York, N. Y. Petroleum distillates and residues	Nov. 27, 1875	Dec. 21, 1875
2, 626	Lichtenstein & Brother, A., New York, N. Y. Cigars	May 31, 1875	June 15, 1875
2, 687	Same.....same	May 31, 1875	June 15, 1875
3, 062	Same.....Cigars and tobacco	Sept. 16, 1875	Oct. 19, 1875
3, 063	Same.....same	Sept. 16, 1875	Oct. 19, 1875
2, 237	Lichtenstein Brothers & Co., New York, N. Y. Cigars	Jan. 25, 1875	Feb. 16, 1875
2, 792	Same.....same	June 17, 1875	July 27, 1875
2, 793	Same.....same	June 17, 1875	July 27, 1875
2, 794	Same.....Cigars and tobacco	July 17, 1875	July 27, 1875
3, 114	Lieber, Benjamin, New York, N. Y. Whisky	Oct. 18, 1875	Nov. 2, 1875
3, 115	Light & Co., F. C., New York, N. Y. Pianos	Oct. 2, 1875	Nov. 2, 1875
2, 484	Lilienthal & Co., San Francisco, Cal. Whisky	Apr. 23, 1875	May 11, 1875
2, 824	Same.....Bourbon whisky	July 9, 1875	Aug. 10, 1875
2, 825	Same.....same	July 9, 1875	Aug. 10, 1875
2, 406	Lincoln Manufacturing Company, Providence, R. I. Soap	Apr. 6, 1875	Apr. 20, 1875
2, 346	Lipps, Christopher, Baltimore, Md. Soap	Mar. 31, 1875	Apr. 6, 1875
3, 230	Same.....same	Dec. 2, 1875	Dec. 14, 1875
2, 663	Littlefield, Dennis G., Albany, N. Y. Stoves	Mar. 14, 1875	June 8, 1875
3, 091	Lockwood, Brooks & Co., Boston, Mass. Writing and copying inks	Sept. 9, 1875	Oct. 26, 1875
2, 845	Lockwood, H. D. & R., Boston, Mass. Dress-shields	Apr. 7, 1875	May 11, 1875
2, 874	Lockwood, Rhodes, Boston, Mass. Rubber erasers	June 24, 1875	Aug. 31, 1875
3, 245	Lohmann, Otto F., Cleveland, Ohio. Medical compound	Nov. 24, 1875	Dec. 14, 1875
2, 669	Love & Willson, Atlanta, Ga. Medicated belts	June 8, 1875	June 15, 1875
2, 765	Lowe & Co., C. Adolph, San Francisco, Cal. Tea	Apr. 15, 1871	July 20, 1875
2, 764	Lowe, Charles, and John Gill, Manchester, England. Carbolic acid	Mar. 30, 1875	July 20, 1875
2, 155	Lowenthal & Co., S., Cincinnati, Ohio. Cigars	Nov. 21, 1874	Jan. 5, 1875
2, 161	Same.....same	Dec. 18, 1874	Jan. 12, 1875
2, 249	Same.....same	Feb. 8, 1875	Feb. 23, 1875
2, 818	Lunt Brothers, New York, N. Y. Oaten grits	Apr. 24, 1875	Aug. 10, 1875
2, 447	Lykens Valley Coal Company, Wiconisco, Pa. Coal	Apr. 29, 1875	May 4, 1875
2, 713	Lyon & Co., A. M., Richmond, Va. Smoking-tobacco	May 3, 1875	July 6, 1875
2, 875	Lyon, Bradford H., deceased, by Hattie N. Lyon, executrix, Flora, Ill. Medical compound	June 24, 1875	Aug. 31, 1875
2, 299	Maatman, Elfret, Saint Louis, Mo. Liniment	Mar. 6, 1875	Mar. 16, 1875
3, 199	Macfarlane & Co., V. W., New York, N. Y. Lard	Nov. 23, 1875	Dec. 7, 1875
2, 714	MacGowan & Co., John K., Philadelphia, Pa. Table-sauce	Jan. 29, 1873	July 6, 1875
2, 697	Macondray & Co., San Francisco, Cal. Tea	May 1, 1875	July 6, 1875
2, 698	Same.....same	May 1, 1875	July 6, 1875
2, 564	Maguire, J. & C., Saint Louis, Mo. Medicine	May 27, 1872	May 18, 1875
2, 688	Mallory Manufacturing Company, Bridgeport, Conn. Hats	May 24, 1875	June 15, 1875
3, 137	Mallory, Wheeler & Co., New Haven, Conn. Door locks and latches	Oct. 19, 1875	Nov. 16, 1875
2, 961	Mann, J. Fearon, Bellefonte, Pa. Axes	Aug. 21, 1875	Sept. 21, 1875
3, 116	Mansell, Orrin B., Lynn, Mass. Medicine	Oct. 18, 1875	Nov. 2, 1875
2, 785	Manufacturers' Combination, New York, N. Y. Fertilizers	Sept. 16, 1875	Sept. 21, 1875
3, 019	Same.....same	Sept. 16, 1875	Oct. 11, 1875
2, 876	Marble & Co., Jerome, Worcester, Mass. Indigo-blue dye	June 11, 1875	Aug. 31, 1875
2, 215	March, Brownback & Co., Limerick Station, Pa. Stoves and ranges	Jan. 26, 1875	Feb. 9, 1875
2, 171	Markowitz & Price, New York, N. Y. Shirts	Dec. 11, 1874	Jan. 19, 1875
2, 766	Martin & Co., E., San Francisco, Cal. Whisky	Jan. 26, 1871	July 20, 1875
3, 259	Mason & Co., James D., Baltimore, Md. Bread, biscuits, crackers, and cakes	Nov. 13, 1875	Dec. 1, 1875
2, 877	Massachusetts Cigar Makers' Co-operative Association, Westfield, Mass. Cigars	July 6, 1875	Aug. 31, 1875
3, 050	Massasoit Paper Manufacturing Company, Springfield, Mass. Writing-paper	Sept. 1, 1875	Oct. 19, 1875
3, 117	Masters, Augustus E., jr., Brooklyn, N. Y. Gin	Oct. 19, 1875	Nov. 2, 1875
2, 156	Mauger, Victor E., New York, N. Y. Playing-cards	Dec. 21, 1874	Jan. 5, 1875
2, 259	Same.....Steam-engines and machinery relating to the treatment of paper	Feb. 13, 1875	Feb. 24, 1875
3, 241	Mary, Benno M., Cincinnati, Ohio. Whisky	Dec. 4, 1875	Dec. 14, 1875
2, 993	Mayer Bros., New Orleans, La. Leaf-tobacco	Aug. 16, 1875	Sept. 28, 1875
2, 783	Mayer, William, Brooklyn, N. Y. Photographic albums	June 30, 1875	July 29, 1875
3, 246	Mayne, Charles, New York, N. Y. Food for children	Nov. 29, 1875	Dec. 14, 1875
3, 247	Same.....same	Nov. 29, 1875	Dec. 14, 1875
3, 248	Same.....same	Nov. 29, 1875	Dec. 14, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,486	Mayo, Israel C., Gloucester, Mass. Preserved fish.	Dec. 22, 1871	May 11, 1875
2,502	McAndrew, James C., New York, N. Y. Licorice-paste.	Apr. 30, 1875	May 18, 1875
2,715	McBeth, Bentel & Margedant, Hamilton, Ohio. Wood-working.	June 10, 1871	July 6, 1875
2,716	McCall, James, New York, N. Y. Paper patterns for cutting garments.	June 22, 1875	July 6, 1875
2,586	McConnell, Porter & Co., Sciotoville, Ohio. Fire-brick, tiles, &c.	June 24, 1871	May 25, 1875
2,224	McCreery & Co., James, New York, N. Y. Dress silks, satins, &c.	Jan. 30, 1875	Feb. 9, 1875
2,423	McCullough Iron Company, Philadelphia, Pa. Galvanized sheet-iron.	Jan. 24, 1873	May 4, 1875
2,533	Same.	Jan. 24, 1873	May 18, 1875
3,006	McFarland, N. S., New York, N. Y. Coffee and tea making utensils.	Aug. 12, 1875	Oct. 5, 1875
2,347	McKeone, Van Haagen & Co., Philadelphia, Pa. Soap.	Mar. 23, 1874	Apr. 6, 1875
3,016	McMillan & Co., J. H., Chicago, Ill. Watches.	Sept. 29, 1875	Oct. 5, 1875
2,187	McNair, Frank F., Nunda, N. Y. Carpet-tacks.	Jan. 9, 1875	Jan. 26, 1875
2,962	Meagley, Rosell H., Binghamton, N. Y. Pressed cake-soap.	July 23, 1875	Sept. 21, 1875
2,348	Medberry & Mann, Ballston Spa., N. Y. Cloth-faced or paper collars.	Mar. 15, 1875	Apr. 6, 1875
2,622	Medberry & Mann, Ballston Spa., N. Y. Collars and cuffs.	May 24, 1875	June 1, 1875
2,623	Same.	May 24, 1875	June 1, 1875
3,015	Meehan, James, Washington, D. C. Table-sauce.	Sept. 23, 1875	Oct. 5, 1875
2,717	Meneely, E. A. & G. R., West Troy, N. Y. Bells.	Jan. 7, 1871	July 6, 1875
3,064	Merrell, A. F., Philadelphia, Pa. Medicine.	Sept. 6, 1875	Oct. 19, 1875
2,963	Merrill & Sons, Robert, New York, N. Y. Nautical instruments.	July 31, 1875	Sept. 21, 1875
2,323	Mershon's Sons, Daniel, Philadelphia, Pa. Heaters, ranges, and grate-work.	Feb. 6, 1875	Mar. 30, 1875
2,349	Messinger, Charles R., Toledo, Ohio. Tobacco.	Mar. 13, 1875	Apr. 6, 1875
3,065	Metropolitan Collar Company, New York, N. Y. Cloth-faced paper collars.	Sept. 3, 1875	Oct. 19, 1875
3,216	Meyer & Co., A. C., Baltimore, Md. Kümmel.	Oct. 19, 1875	Dec. 7, 1875
2,565	Mez & Sons, Carl, Freiburg, Germany. Filet under-garments.	Apr. 19, 1875	May 18, 1875
2,540	Miami Powder Company, Xenia, Ohio. Gunpowder.	June 29, 1872	May 18, 1875
2,283	Michener & Co., J. H., Philadelphia, Pa. Hams, beef and tongues.	Jan. 30, 1875	Mar. 9, 1875
3,260	Michigan Stove Company, Detroit, Mich. Stoves.	Apr. 6, 1875	Dec. 21, 1875
2,435	Middlesex Company, Lowell, Mass. Woolen cloths.	Mar. 11, 1875	May 4, 1875
2,487	Same.	Dec. 14, 1871	May 11, 1875
2,183	Miles, J. Frank, Boston, Mass. Cigars.	Jan. 8, 1875	Jan. 19, 1875
2,152	Miller Brothers, New York, N. Y. Perfume.	Dec. 24, 1874	Jan. 19, 1875
3,283	Miller, Metcalf & Parkin, Pittsburgh, Pa. Steel bar, steel plate, and articles made therefrom.	Dec. 13, 1875	Dec. 28, 1875
3,284	Same.	Dec. 13, 1875	Dec. 28, 1875
2,767	Miller, William F., and Frank D. Montgomery, Boston, Mass. Playing-cards.	May 17, 1875	July 20, 1875
2,239	Miller, William H., Philadelphia, Pa. Packing for stuffing-boxes, &c.	Feb. 9, 1875	Feb. 16, 1875
2,994	Mills, Johnson & Co., Cincinnati, Ohio. Whisky.	Aug. 25, 1875	Sept. 28, 1875
2,448	Mineral Railroad and Mining Company, Shamokin, Pa. Coal.	Apr. 29, 1875	May 4, 1875
2,784	Minot, Hooper & Co., New York, N. Y. Woven cotton fabrics.	July 17, 1875	July 20, 1875
2,878	Same.	July 17, 1875	Aug. 31, 1875
2,879	Same.	July 17, 1875	Aug. 31, 1875
2,880	Same.	July 17, 1875	Aug. 31, 1875
2,778	Mitchell, George E., Lowell, Mass. Porous plasters.	Jan. 29, 1875	July 20, 1875
2,740	Mitchell, Henry T., Brooklyn, N. Y. Rupture-cure.	July 1, 1875	July 13, 1875
2,566	Mitchell, Stephenson & Co., Pittsburgh, Pa. Stoves.	May 11, 1875	May 18, 1875
2,436	Moët & Chandon, Epernay, France. Champagne.	Apr. 3, 1875	May 4, 1875
2,819	Mohr, Louis, Hoboken, N. J. Cigars and tobacco.	July 2, 1875	Aug. 10, 1875
2,647	Moll, August, Brooklyn, N. Y. Silk, worsted, linen, and cotton braids.	May 25, 1875	June 8, 1875
2,350	Möller, Peter, London, England. Cod liver oil.	Mar. 13, 1875	Apr. 6, 1875
3,066	Monitor Plow Works, Minneapolis, Minn. Plows.	Aug. 23, 1875	Oct. 19, 1875
2,351	Monohansett Manufacturing Company, Putnam, Conn. Cotton sheetings and shirtings.	Feb. 18, 1875	Apr. 6, 1875
2,184	Montgomery & Co., Philadelphia, Pa. Pile-cure.	Jan. 12, 1874	Jan. 19, 1875
3,158	Moore, Benjamin F., Fond du Lac, Wis. Wagons, carriages, and other vehicles.	Oct. 27, 1875	Nov. 16, 1875
3,261	Moore, Harriet A., San Francisco, Cal. Hair-producer.	Oct. 19, 1875	Dec. 21, 1875
2,371	Moore, Thomas E., Shawhan, Ky. Whisky.	Dec. 21, 1871	Apr. 13, 1875
2,372	Same.	Dec. 21, 1871	Apr. 13, 1875
2,373	Same.	Feb. 15, 1872	Apr. 13, 1875
3,034	Mora & Co., J. M., New York, N. Y. Cigars and tobacco.	Sept. 13, 1875	Oct. 11, 1875
3,127	Morris & Co., Edward S., Philadelphia, Pa. Soap.	Oct. 19, 1875	Nov. 9, 1875
2,534	Morse Brothers, Canton, Mass. Prepared plumbago.	Mar. 14, 1872	May 18, 1875
2,995	Moseley & Moody, New York, N. Y. Paper collars.	July 17, 1875	Sept. 28, 1875
2,389	Moses, A. & J. M., New York, N. Y. Refined lard.	Apr. 3, 1875	Apr. 20, 1875
3,249	Mount Washington Glass Works, New Bedford, Mass. Lamp-chimneys.	Nov. 24, 1875	Dec. 14, 1875
2,216	Mudge, Sawyer & Co., E. R., Boston, Mass., and New York, N. Y. Textile fabrics.	Jan. 30, 1875	Feb. 9, 1875
3,089	Muhr's Sons, H., Philadelphia, Pa. Finger-rings.	Sept. 22, 1875	Oct. 26, 1875
2,535	Mulligan, Hugh, Philadelphia, Pa. Watches.	Apr. 9, 1875	May 18, 1875
2,820	Same.	July 24, 1875	Aug. 10, 1875
2,536	Mundell, Charles W., Brooklyn, N. Y. Boots and shoes.	May 6, 1875	May 18, 1875
2,567	Munson, Henry T., Washington, D. C. Soap.	May 13, 1875	May 18, 1875
2,996	Munyon, James M., Philadelphia, Pa. Polish for linen, muslin, &c.	Aug. 30, 1875	Sept. 28, 1875
2,931	Myers, John B., Cleveland, Ohio. Sewing-machines.	June 25, 1875	Sept. 14, 1875
2,250	Myers, Simon S., Philadelphia, Pa. Washing-blue.	Feb. 9, 1875	Feb. 23, 1875
3,092	Same.	Sept. 24, 1875	Oct. 26, 1875
2,390	Napheys & Son, George C., Philadelphia, Pa. Lard.	Apr. 12, 1875	Apr. 20, 1875
2,437	Same.	Apr. 30, 1875	May 4, 1875
3,178	National Mixed Paint Company, New York, N. Y. Paints.	Sept. 13, 1875	Nov. 30, 1875
2,352	National Rubber Company, Bristol, R. I. Rubber goods.	Apr. 1, 1872	Apr. 6, 1875
2,648	Same.	May 27, 1875	June 8, 1875
2,881	Same.	June 21, 1875	Aug. 31, 1875
2,882	Same.	June 21, 1875	Aug. 31, 1875
2,883	Same.	July 7, 1875	Aug. 31, 1875
2,884	Same.	July 7, 1875	Aug. 31, 1875
3,271	National Talc, (French chalk,) Crayon, and Pencil Company, Monmouth, Ill. Crayons and pencils.	Nov. 19, 1875	Dec. 21, 1875
2,488	National Tube Works Company, Boston, Mass., and McKeesport, Pa. Wrought-iron pipe, tubing, &c.	Mar. 27, 1875	May 11, 1875
2,502	National Yeast Company, Seneca Falls, N. Y. Yeast.	Dec. 10, 1870	May 11, 1875
2,188	Naumkeag Steam Cotton Company, Salem, Mass. Cotton jeans.	Oct. 29, 1874	Jan. 26, 1875
3,262	Needham & Son, E. P., New York, N. Y. Organs.	Dec. 8, 1875	Dec. 21, 1875
2,718	New England Company, Rockville, Conn. Cassimere and clothing fabrics.	June 26, 1875	July 6, 1875
2,438	Nichols & Co., James R., Boston, Mass. Medicine.	Feb. 23, 1872	May 4, 1875
3,118	Nicholson, William C., New York, N. Y. Cigars and tobacco.	Oct. 12, 1875	Nov. 2, 1875
3,119	Same.	Oct. 12, 1875	Nov. 2, 1875
2,260	Nisbet, Mrs. Thomas C., Macon, Ga. Cotton-presses.	Feb. 15, 1875	Feb. 23, 1875
2,479	Nolen, William F., Brooklyn, N. Y. Tobacco.	Apr. 3, 1875	May 11, 1875
2,490	Northwestern Horse Nail Company, Chicago, Ill. Horse-nails.	Dec. 17, 1870	May 11, 1875
2,154	Novelty Company, New York, N. Y. Tobacco-pouch.	Dec. 23, 1875	Jan. 5, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
3,093	Nunns, Benjamin F., New York, N. Y. Medical composition	Sept. 16, 1875	Oct. 26, 1875
2,587	Oakley, Jesse, New York, N. Y. Soap	Jan. 16, 1872	May 25, 1875
2,588	Same..... same	Mar. 16, 1872	May 25, 1875
2,670	Ogborn & Co., M. E., Cincinnati, Ohio. Gin	June 4, 1875	June 15, 1875
2,847	Oliver, Paul A., Wilkesbarre, Pa. Rifle-powder	June 26, 1875	Aug. 24, 1875
2,768	Olzendam, Abraham P., Manchester, N. H. Woolen hose	Aug. 5, 1870	July 20, 1875
3,051	Orne & Co., J. C., Westmore, Vt. Scythe-stones	June 26, 1875	Oct. 19, 1875
2,353	Ostrander & Son., William, Watsonville, Cal. Life-ointment	Mar. 5, 1875	Apr. 6, 1875
2,589	Ottenheimer, Rothschild & Co., New York, N. Y. Corsets	Feb. 19, 1872	May 25, 1875
2,590	Same..... same	Feb. 19, 1872	May 25, 1875
2,591	Same..... same	Feb. 19, 1872	May 25, 1875
2,592	Same..... same	Feb. 19, 1872	May 25, 1875
2,593	Same..... same	Sept. 13, 1872	May 25, 1875
2,594	Same..... same	Oct. 19, 1872	May 25, 1875
2,595	Same..... same	Oct. 19, 1872	May 25, 1875
2,596	Same..... same	Oct. 19, 1872	May 25, 1875
3,217	Pabst & Esch, New York, N. Y. Lamp chimneys and shades	Nov. 29, 1875	Dec. 7, 1875
3,272	Packard & Co., F. A., Boston, Mass. Paper-weights	Dec. 11, 1875	Dec. 21, 1875
2,964	Packard & James, New York, N. Y. Spices	Sept. 14, 1875	Sept. 21, 1875
2,965	Same..... same	Sept. 14, 1875	Sept. 21, 1875
2,966	Same..... same	Sept. 14, 1875	Sept. 21, 1875
2,967	Same..... same	Sept. 13, 1875	Sept. 21, 1875
2,968	Same..... Cream of tartar	Sept. 14, 1875	Sept. 21, 1875
2,969	Same..... same	Sept. 14, 1875	Sept. 21, 1875
2,970	Same..... same	Sept. 13, 1875	Sept. 21, 1875
2,971	Same..... same	Sept. 14, 1875	Sept. 21, 1875
3,179	Same..... Spices	Sept. 13, 1875	Nov. 30, 1875
3,180	Same..... Cream of tartar	Sept. 13, 1875	Nov. 30, 1875
2,170	Pacher, Daniel F., Mystic River, Conn. Soap	Jan. 2, 1875	Jan. 12, 1875
2,779	Page, George F. & Charles T., Franklin, N. H. Leather	Nov. 28, 1870	July 20, 1875
2,780	Same..... same	Aug. 17, 1871	July 20, 1875
3,218	Page, John E., Albany, N. Y. Shirts	Nov. 29, 1875	Dec. 7, 1875
2,624	Pancoast & Maule, Philadelphia, Pa. Steam-heating apparatus, steam fittings, &c.	Apr. 24, 1875	June 1, 1875
2,689	Pancoast, William H., Millstone, N. J. Medicine	Apr. 30, 1875	June 15, 1875
3,232	Pardee, Lucius C., Chicago, Ill. Cigars	Nov. 29, 1875	Dec. 14, 1875
3,273	Same..... same	Nov. 29, 1875	Dec. 21, 1875
3,274	Same..... same	Nov. 29, 1875	Dec. 21, 1875
2,193	Passavant & Co., New York, N. Y. Silks, velvets, and dress-goods	Jan. 18, 1875	Jan. 26, 1875
2,407	Same..... Gloves, embroideries, and ribbons	Apr. 10, 1875	Apr. 20, 1875
2,284	Patapsco Guano Company, Baltimore, Md. Fertilizers	Mar. 1, 1875	Mar. 9, 1875
2,300	Same..... same	Mar. 1, 1875	Mar. 16, 1875
2,723	Patent Metal Company, Philadelphia, Pa. Metal	Nov. 3, 1870	July 6, 1875
2,491	Patrick & Carter, Philadelphia, Pa. Telegraph instruments and appurtenances	Apr. 13, 1875	May 11, 1875
2,285	Patrick & Co., Richard, San Francisco, Cal. Axes	Feb. 27, 1875	Mar. 9, 1875
2,848	Pease, Francis S., Buffalo, N. Y. White-lead, &c.	June 8, 1872	Aug. 26, 1875
2,769	Peck & Snyder, New York, N. Y. Base-balls	Aug. 30, 1870	July 20, 1875
3,181	Perry, Chauncey, Rochester, N. Y. Fertilizers	Nov. 8, 1875	Nov. 30, 1875
2,972	Perrin, Harriman & Co., A., New York, N. Y. Dress and other dry goods	Aug. 25, 1875	Sept. 21, 1875
2,973	Same..... same	Aug. 25, 1875	Sept. 21, 1875
2,974	Same..... same	Aug. 25, 1875	Sept. 21, 1875
2,975	Same..... same	Aug. 25, 1875	Sept. 21, 1875
2,381	Phillips, Charles H., New York, N. Y. Preparation of magnesia	Apr. 1, 1875	Apr. 13, 1875
2,382	Same..... same	Apr. 1, 1875	Apr. 13, 1875
2,439	Same..... Essential oils and other chemicals	Nov. 16, 1872	May 4, 1875
2,492	Picault, Pierre E., Montreal, Canada. Medical fluid compound	Mar. 23, 1875	May 11, 1875
2,440	Pillsbury & Co., C. A., Minneapolis, Minn. Flour	Feb. 17, 1875	Sept. 14, 1875
2,940	Pinckney, Jackson & Co., New York, N. Y., Chicago, Ill., and London, England. Mustard and spices	Apr. 22, 1875	May 4, 1875
2,493	Pine, Miller & Dunham, Troy, N. Y. Ladies' and gentlemen's collars and cuffs	Apr. 30, 1875	May 11, 1875
3,200	Pingree, Woods & Clark, Boston, Mass. Cotton fabrics	Nov. 19, 1875	Dec. 7, 1875
2,310	Pioneer Tobacco Company, Brooklyn, N. Y. Tobacco	Mar. 9, 1875	Mar. 23, 1875
2,976	Planat & Co., Ve., Cognac, France. Brandies	Sept. 13, 1875	Sept. 21, 1875
2,354	Plastridge, Asa A., Chicago, Ill. Mustard	Mar. 13, 1875	Apr. 6, 1875
2,251	Plumb, Sons & Co., E., Grand Rapids, Mich. Baking-powder	Nov. 20, 1874	Feb. 23, 1875
2,494	Pohalski, Pincus, New York, N. Y. Cigars	Apr. 23, 1875	May 11, 1875
3,250	Poitiers, John A., New York, N. Y. Cigars, cigarettes, smoking and chewing tobacco	Nov. 18, 1875	Dec. 14, 1875
2,355	Pomeroy Sons, L., Pittsfield, Mass. Gray cloth	Feb. 14, 1871	Apr. 6, 1875
2,495	Pond, Julius R., New York, N. Y. Milk	May 1, 1875	May 11, 1875
2,374	Porter & Bainbridge, New York, N. Y. Paper, envelopes, and cards	Apr. 1, 1875	Apr. 13, 1875
3,068	Powell, George W., Meadville, Va. Plant-fly and grasshopper exterminator	Aug. 12, 1875	Oct. 19, 1875
2,334	Power Brothers & Co., London, England, and William H. Power & Co., New York, N. Y. Petroleum and its products and other oils	Mar. 25, 1875	Mar. 30, 1875
2,391	Same..... Petroleum	Apr. 10, 1875	Apr. 20, 1875
2,649	Pratt & Co., Buffalo, N. Y. Bar-iron, shafting, &c.	May 12, 1875	June 8, 1875
3,233	Pratt & Co., A. W., New York, N. Y. Varnishes, japan and liquid driers, turpentine and benzine	July 29, 1875	Dec. 14, 1875
2,496	Price, William M., Saint Louis, Mo. Plantation-wagons	May 4, 1875	May 11, 1875
3,251	Proctor & Gamble, Cincinnati, Ohio. Soap	Dec. 10, 1875	Dec. 14, 1875
2,157	Puffer, William H., Athol, Mass. Felon-cure	Dec. 7, 1874	Jan. 5, 1875
3,067	Puig & Co., Emilio, New York, N. Y. Lard	Sept. 11, 1875	Oct. 19, 1875
2,424	Purley & Co., John, Atlanta, Ga. Medicine	June 24, 1872	May 4, 1875
2,781	Putnam, Silas S., Boston, Mass. Curtain-fixtures	July 17, 1871	July 20, 1875
2,650	Quinn, James, Portland, Oreg. Prepared salmon	May 21, 1875	June 8, 1875
3,020	Quirin & Co., William, Boston, Mass. Skin and leather	Aug. 23, 1875	Oct. 11, 1875
2,625	Radway & Co., New York, N. Y. Medicine	May 24, 1875	June 1, 1875
2,626	Same..... Medicinal fluid preparation	May 24, 1875	June 1, 1875
2,627	Same..... Medicine	May 24, 1875	June 1, 1875
3,234	Ralston & Kirke, New York, N. Y. Fertilizers	Nov. 27, 1875	Dec. 14, 1875
3,139	Rand & Co., J. R., New York, N. Y. Blasting-powder	Oct. 21, 1875	Nov. 16, 1875
2,246	Rauchfuss, Frederick, New York, N. Y. Bathing-powders	Feb. 12, 1875	Feb. 16, 1875
3,035	Ray & Taylor Manufacturing Company, Springfield, Mass. Paper collars	Sept. 1, 1875	Oct. 11, 1875
2,324	Redington, Hostetter & Co., San Francisco, Cal. Preparation to be used on sheep	Mar. 20, 1875	Mar. 30, 1875
3,069	Reis & Becherer, Philadelphia, Pa. Whisky	Sept. 6, 1875	Oct. 19, 1875
2,293	Reisig & Hexamer, New Castle, N. Y. Prong-hoes	Jan. 25, 1875	Mar. 16, 1875
3,095	Remington & Sons, E., Ilion, N. Y. Sewing-machines	Sept. 20, 1875	Oct. 26, 1875
2,356	Renne & Sons, William, Pittsfield, Mass. Medicine	Apr. 13, 1872	Apr. 6, 1875
2,741	Rex, Carrie L., Newark, N. J. Medicine	June 24, 1875	July 13, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,498	Richards & Sons, I. D., Boston, Mass. Gin	Oct. 30, 1871	May 11, 1875
2,719	Same.....same	Aug. 17, 1871	July 6, 1875
2,782	Same.....same	Oct. 8, 1870	July 20, 1875
2,425	Richmond, Charles C., Boston, Mass. Axle-oil	Mar. 25, 1872	May 4, 1875
2,671	Riessner, Christopher, Washington, D. C. Summer furnaces	June 9, 1875	June 15, 1875
2,977	Ritchie & Co., Thomas, Jacksonville, Fla. Orange marmalade	Sept. 4, 1875	Sept. 21, 1875
2,393	Ritter, Philip J., Philadelphia, Pa. Jams, jellies, marmalades, and preserved fruits	Apr. 7, 1875	Apr. 20, 1875
2,597	Robert & Co., J. Eugene, New York, N. Y. Watches	Sept. 7, 1872	May 23, 1875
2,277	Roberts & Fulweiler, Philadelphia, Pa. Cigars	Feb. 24, 1875	Mar. 9, 1875
2,786	Robertson & Co., Thomas, Philadelphia, Pa. Evaporated sugar-corn	Sept. 13, 1875	Sept. 21, 1875
2,664	Robinson Bros. & Co., Boston, Mass. Soap	Mar. 8, 1875	June 8, 1875
2,742	Same.....same	July 6, 1875	July 13, 1875
2,795	Same.....same	July 6, 1875	July 27, 1875
2,821	Same.....same	July 30, 1875	Aug. 10, 1875
2,978	Same.....same	Sept. 4, 1875	Sept. 21, 1875
3,201	Same.....same	Nov. 22, 1875	Dec. 7, 1875
3,202	Rock Haven Cement Company, Louisville, Ky. Hydraulic cement	Oct. 23, 1875	Dec. 7, 1875
2,885	Rodgers, Augusta M., Brooklyn, N. Y. Medical compound	June 18, 1875	Aug. 31, 1875
2,886	Same.....same	Aug. 4, 1875	Aug. 31, 1875
3,219	Rogers, Frank W., Hartford, Conn. Metal and plated ware	Nov. 11, 1875	Dec. 7, 1875
2,497	Root, Charles O., Binghamton, N. Y. Fertilizing material	Apr. 1, 1875	May 11, 1875
2,298	Rose, Buckley A., Urbana, Ohio. Burning-fluid	Nov. 26, 1870	Mar. 16, 1875
2,941	Rosenbach & Co., M., Philadelphia, Pa. Overalls, shirts, and drawers	July 12, 1875	Sept. 14, 1875
3,275	Bothschild Bros. & Gutmann, New York, N. Y. Bosom-shirts	Nov. 5, 1875	Dec. 21, 1875
2,441	Rothschild, John W., Saint Louis, Mo. Salve	Dec. 12, 1874	May 4, 1875
3,182	Royer, Herman, San Francisco, Cal. Manufactured leather or rawhide	Aug. 23, 1875	Nov. 30, 1875
2,922	Rumford Chemical Works, Providence, R. I. Bread-raising material	July 19, 1875	Sept. 7, 1875
2,392	Rutley, John H., San Francisco. Medicine	Apr. 9, 1875	Apr. 20, 1875
2,189	Sabin, Charles D., New York, N. Y. Hams	Dec. 23, 1874	Jan. 26, 1875
2,811	Sahlfeld & Co., Frederick, Baltimore, Md. Toilet-soap	June 22, 1875	Aug. 3, 1875
2,252	Salmon, William F., Lowell, Mass. Knitted hosiery	Dec. 11, 1874	Feb. 23, 1875
2,240	Saloman, Gustav, New York, N. Y. Cigars and cigarettes	Feb. 1, 1875	Feb. 16, 1875
3,070	Sarle, John F., New York, N. Y. Liquid tonic	Aug. 26, 1875	Oct. 19, 1875
2,394	Sarrazin J. P., New Orleans, La. Smoking-tobacco	Apr. 6, 1875	Apr. 20, 1875
2,395	Same.....same	Apr. 6, 1875	Apr. 20, 1875
2,396	Same.....same	Apr. 6, 1875	Apr. 20, 1875
2,397	Same.....same	Apr. 6, 1875	Apr. 20, 1875
2,568	Saums, Christian C., Baltimore, Md. Cigars	Apr. 23, 1875	May 18, 1875
3,052	Schaeffer, Catharine, New York, N. Y. Liniment	June 14, 1875	Oct. 19, 1875
3,100	Schimmel & Co., J. O., Philadelphia, Pa. Fruit-butters	Oct. 8, 1875	Oct. 26, 1875
2,207	Schmidlapp & Co., Cincinnati, Ohio. Bitters	Jan. 25, 1875	Feb. 2, 1875
2,923	Schultz & Co., Zanesville, Ohio. Soap	June 19, 1875	Sept. 7, 1875
3,147	Same.....same	Nov. 10, 1875	Nov. 16, 1875
2,294	Schuneman & Co., A., Detroit, Mich. Cigars	Mar. 4, 1875	Mar. 16, 1875
3,036	Schwabhauser, Gustav, Nuremberg, Germany. Drawing lead-pencils	Sept. 25, 1875	Oct. 11, 1875
3,167	Same.....Pencils and rubber erasers	Sept. 25, 1875	Nov. 23, 1875
3,168	Same.....Mechanical lead-pencils and rubber erasers	Sept. 25, 1875	Nov. 23, 1875
2,979	Schwob Brothers & Co., New York, N. Y. Watches	July 8, 1875	Sept. 21, 1875
3,276	Secomb, Kehew & Thayer, Boston, Mass. Wool-oil	Nov. 2, 1875	Dec. 21, 1875
3,203	Seeler & Stevens, New York, N. Y. Varnishes	Nov. 22, 1875	Dec. 7, 1875
2,208	Seidenberg & Co., Key West, Florida. Cigars	Jan. 22, 1875	Feb. 2, 1875
2,241	Seip, James M., Allentown, Pa. Cigars	Dec. 29, 1874	Feb. 16, 1875
3,204	Shaw, Hammond & Carney, Portland, Me. Flour	Nov. 24, 1875	Dec. 7, 1875
2,270	Sherwood & Co., L. H., Hartford, Conn. Egg-producing food for poultry	Feb. 24, 1875	Mar. 2, 1875
3,205	Shields, May & Co., Cincinnati, Ohio. Whisky	Nov. 13, 1875	Dec. 7, 1875
3,206	Same.....same	Nov. 13, 1875	Dec. 7, 1875
2,500	Shinnick, Woodside & Gibbons, Zanesville, Ohio. Cooking-stoves	Sept. 7, 1872	May 11, 1875
3,120	Shoemaker & Co., Robert, Philadelphia, Pa. Scotch oatmeal	Oct. 2, 1875	Nov. 2, 1875
2,692	Shumway, Franklin P., Leominster, Mass. Agricultural forks	Mar. 20, 1872	June 22, 1875
2,537	Sibley, Solomon, Boston, Mass. Shirt bosoms	Nov. 7, 1872	May 18, 1875
3,220	Silberman, Henry, Philadelphia, Pa. Clasps for pocket-books, satchels, &c	Nov. 17, 1875	Dec. 7, 1875
2,849	Silbermann, Heinemann & Co., New York, N. Y. Fringes, ribbons, and trimmings of silk	Dec. 13, 1870	Aug. 24, 1875
2,997	Same.....Cords, fringes, ribbons, &c	Dec. 13, 1870	Sept. 18, 1875
2,426	Simes, Samuel F., Philadelphia, Pa. Soda-water	Apr. 29, 1872	May 4, 1875
2,361	Simons & Brothers, Philadelphia, Pa. Oil	Mar. 27, 1875	Apr. 6, 1875
2,651	Singer Manufacturing Company, New York, N. Y. Sewing-machine	May 24, 1875	June 8, 1875
3,071	Slater, John H., Portsmouth, N. H. Medical preparation	Feb. 5, 1875	Oct. 19, 1875
3,017	Slater, William S., North Smithfield, R. I. Fine shirtings	June 24, 1875	Oct. 5, 1875
3,277	Smart, Thomas H., Philadelphia, Pa. Medical preparation	Nov. 27, 1875	Dec. 21, 1875
2,912	Smith & Co., Henry W., Covington, Ky. Redistilled liquors	Aug. 16, 1875	Sept. 7, 1875
2,913	Smith & Sons, I. H., New York, N. Y. Bottled wines	June 12, 1875	Sept. 7, 1875
2,830	Smith, Andrew L., Geneva, N. Y. Spectacles and spectacle-frames	Dec. 22, 1874	Aug. 17, 1875
3,037	Smith, David B., Bastrop, La. Plows	Sept. 23, 1875	Oct. 11, 1875
2,190	Smith, John H., Philadelphia, Pa. Germantown wool	Jan. 13, 1875	Jan. 26, 1875
2,693	Smith, Thomas L., Boston, Mass. Gin	Oct. 30, 1871	June 22, 1875
3,021	Snow & Co., Franklin, Boston, Mass. Fish	June 7, 1875	Oct. 11, 1875
3,121	Snyder & Gue, Decatur, Ill. Medical preparation or compound	Oct. 12, 1875	Nov. 2, 1875
2,427	Sorrento Wood Carving Company, Boston, Mass. Wood-carvings	Dec. 16, 1871	May 4, 1875
3,022	Southern Calendar Clock Company, Saint Louis, Mo. Clocks	Aug. 20, 1875	Oct. 11, 1875
2,924	Speer & Sons, Alexander, Pittsburgh, Pa. Plows	July 13, 1875	Sept. 7, 1875
2,375	Spren, Fred, Pittsburgh, Pa. Medicine	Mar. 31, 1875	Apr. 13, 1875
2,201	Stachelberg & Co., New York, N. Y. Cigars	Jan. 21, 1875	Feb. 2, 1875
2,781	Stanley Rule and Level Company, New Britain, Conn. Carpenters' planes	Jan. 27, 1875	Sept. 21, 1875
2,850	Staples, Daniel, and John S. Brown, Moscow, Pa. Clothes-pins	Apr. 17, 1875	Aug. 24, 1875
2,442	Star Pin Company, Birmingham, Conn. Pins	Mar. 13, 1875	May 4, 1875
2,443	Same.....same	Mar. 13, 1875	May 4, 1875
2,444	Same.....same	Mar. 6, 1875	May 4, 1875
2,445	Same.....same	Mar. 27, 1875	May 4, 1875
2,446	Same.....same	Apr. 10, 1875	May 4, 1875
2,428	Starkey, George R., Philadelphia, Pa. Compound oxygen-water	Nov. 14, 1872	May 4, 1875
3,221	Starr Manufacturing Company, Dartmouth, Canada. Skates	Oct. 1, 1875	Dec. 7, 1875
2,720	Steel & Co., Edward T., Philadelphia, Pa. Cloth or men's wear	Jan. 9, 1871	July 6, 1875
3,278	Steele, James G., San Francisco, Cal. Poison and poisonous compositions for the destruction of squirrels, &c	Nov. 18, 1875	Dec. 21, 1875
2,538	Steiner & Co., D., New York, N. Y. Green paints	Apr. 20, 1875	May 18, 1875
2,932	Same.....Paints	July 24, 1875	Sept. 14, 1875
2,357	Stern & Co., New York, N. Y. Shirts	Aug. 31, 1872	Apr. 6, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2,743	Stern, I. N., Keokuk, Iowa. Lye and potash	May 15, 1875	July 13, 1875
3,122	Stewart & Co., A. T., New York, N. Y. Carpets	Oct. 13, 1875	Nov. 2, 1875
3,207	Stewart & Co., T. G., Johnstown, Pa. Flour	Nov. 24, 1875	Dec. 7, 1875
3,208	Same	Nov. 24, 1875	Dec. 7, 1875
2,295	Stiles, William C., jr., Volcano, W. Va. Lubricating-oils	Feb. 23, 1875	Mar. 16, 1875
3,038	Saint Johnsbury Tool Company, Saint Johnsbury, Vt. Bevel and try squares	Sept. 9, 1875	Oct. 11, 1875
2,782	Saint Louis Woode & Gutter Manufacturing Company, Saint Louis, Mo. Refrigerators and ice-chests	Aug. 28, 1875	Sept. 21, 1875
2,129	Stockdale, Smith & Co., Baltimore, Md. Baking-powder	Apr. 29, 1875	May 11, 1875
2,694	Same	June 17, 1875	June 22, 1875
2,569	Stowell & Co., Charlestown, Mass. Pastilles	Dec. 1, 1871	May 18, 1875
3,263	Strain, John G., Delaware, Ohio. Split-bottom chairs	Aug. 14, 1871	Dec. 21, 1875
2,628	Strasburger & Co., Louis, New York, N. Y. Watches	Apr. 30, 1875	June 1, 1875
2,629	Same	Apr. 30, 1875	June 1, 1875
2,630	Same	Apr. 30, 1875	June 1, 1875
2,631	Same	Apr. 30, 1875	June 1, 1875
2,980	Same	Aug. 11, 1875	Sept. 21, 1875
2,721	Streeter & Riker, New York, N. Y. Polishing compound	June 23, 1875	July 6, 1875
2,699	Strouse, George W. & M., Avon, N. Y. Agricultural implements	Apr. 19, 1875	July 6, 1875
	Strouse, M. (See Strouse, George W. & M.)		
2,194	Strunz & Wetzel, Pittsburgh, Pa. Soaps	Jan. 2, 1875	Jan. 26, 1875
3,128	Sullivan & Burk, Detroit, Mich. Cigars	Nov. 5, 1875	Nov. 9, 1875
2,398	Summer King Stove Company, Pittsburgh, Pa. Stoves	Apr. 5, 1875	Apr. 20, 1875
2,822	Summers & Co., Charles G., Baltimore, Md. Hermetically-sealed canned goods	July 8, 1875	Aug. 10, 1875
2,449	Summit Branch Railroad Company, Williamstown, Pa. Coal	Apr. 29, 1875	May 4, 1875
2,286	Susfield, Lorsch & Co., New York, N. Y. Spectacles, eyeglasses, and optical goods	Feb. 6, 1875	Mar. 9, 1875
3,140	Swaim, William, Philadelphia, Pa. Medical compound	Oct. 23, 1875	Nov. 16, 1875
3,141	Same	Oct. 23, 1875	Nov. 16, 1875
3,142	Same	Oct. 23, 1875	Nov. 16, 1875
3,143	Same	Oct. 23, 1875	Nov. 16, 1875
2,539	Swain, Earle & Co., Boston, Mass. Mustard	July 12, 1872	May 18, 1875
2,771	Swank, M. J., Philadelphia, Pa. Tobacco and cigars	Jan. 15, 1875	July 20, 1875
2,803	Sweet, Barnes & Co., Syracuse, N. Y. Steel and iron wares	May 24, 1873	Aug. 3, 1875
3,072	Swift & Co., George B., Chicago, Ill. Axle-grease	Sept. 8, 1875	Oct. 19, 1875
2,501	Swift and Courtney and Beecher Company, New Haven, Conn. Friction-matches	May 1, 1875	May 11, 1875
2,887	Swigart, George, Belleville, Ill. Flour	June 16, 1875	Aug. 31, 1875
2,503	Talcot, George, Brooklyn, N. Y. Medicine	Apr. 29, 1875	May 11, 1875
2,504	Same	Apr. 29, 1875	May 11, 1875
2,271	Talcott, Samuel C., Ashtabula, Ohio. Bonnets and other-head wear for women and children	Feb. 23, 1875	Mar. 2, 1875
2,272	Same	Feb. 23, 1875	Mar. 2, 1875
2,273	Same	Feb. 23, 1875	Mar. 2, 1875
2,772	Talcot, George, Brooklyn, N. Y. Pamphlets	June 5, 1875	July 20, 1875
3,023	Tarrant & Co., New York, N. Y. Medical preparation	Sept. 4, 1875	Oct. 11, 1875
3,024	Same	Sept. 4, 1875	Oct. 11, 1875
2,325	Taylor, Augustus A., Loudonville, Ohio. Flour	Mar. 18, 1875	Mar. 30, 1875
3,101	Taylor, Alfred B., New York, N. Y. Cottonades and other heavy cotton and cotton and wool goods	Oct. 8, 1875	Oct. 26, 1875
2,888	Taylor Company, N. & G., Philadelphia, Pa. Tin-plate	June 23, 1875	Aug. 31, 1875
2,889	Same	June 28, 1875	Aug. 31, 1875
2,890	Same	June 28, 1875	Aug. 31, 1875
3,258	Teets, Charles E., New York, N. Y. Stove-polish	Dec. 6, 1875	Dec. 14, 1875
2,376	Thayer Manufacturing Jewelry Company, Astoria, N. Y. Jewelry	Apr. 2, 1875	Apr. 13, 1875
3,236	Thilenius, George C., Cape Girardeau, Mo. Flour	Nov. 13, 1875	Dec. 14, 1875
3,237	Same	Nov. 13, 1875	Dec. 14, 1875
2,914	Thomas, Joel, Philadelphia, Pa. Ruches, ruffings, and collarettes	June 11, 1875	Sept. 7, 1875
2,915	Same	June 11, 1875	Sept. 7, 1875
2,505	Thomas, Robert, Stevenson & Co., Philadelphia, Pa. Stoves and ranges	Apr. 17, 1875	May 11, 1875
3,026	Thomson, Langdon & Co., New York, N. Y. Combs	June 10, 1875	Oct. 11, 1875
2,225	Thornhill & Co., New York, N. Y. Paints, composition coatings, and wood-fillings	Jan. 30, 1875	Feb. 9, 1875
2,450	Thurber & Co., H. K., New York, N. Y. Whisky	June 15, 1872	May 4, 1875
2,724	Same	Oct. 1, 1870	July 6, 1875
2,804	Same	May 8, 1875	Aug. 3, 1875
3,074	Same	Oct. 1, 1870	Oct. 19, 1875
2,261	Tibbels, Ewing W., Chester, Pa. Paint or cement	Dec. 2, 1874	Feb. 23, 1875
2,430	Tiemann & Co., D. F., New York, N. Y. Paints, colors, and painting materials	Oct. 12, 1872	May 4, 1875
2,854	Tilden & Co., New Lebanon, N. Y. Medicine	May 23, 1871	Aug. 24, 1875
3,233	Tilden, Henry A., New Lebanon, N. Y. Medical preparation	Nov. 27, 1875	Dec. 14, 1875
2,278	Torlina, Endres & Co., Saint Louis, Mo. Bourbon whisky	Feb. 17, 1875	Mar. 9, 1875
2,690	Touché, Otto, New Orleans, La. Toilet-powder	May 8, 1875	June 15, 1875
2,725	Tremont and Suffolk Mills, Lowell, Mass. Cotton flannels	July 1, 1875	July 6, 1875
3,171	Tripler, A. J., New York, N. Y. Bathing-suits	July 9, 1875	Nov. 23, 1875
2,506	Tripp, Job C., Fairhaven, Mass., assignor to Boston and Fairhaven Iron Works. Printing-presses, &c	Jan. 13, 1873	May 11, 1875
2,196	Troy Hosiery Manufacturing Company, Troy, N. Y. Knitted goods	Jan. 18, 1875	Jan. 26, 1875
3,264	Truex, Edward H., New York, N. Y. Preparation of cod-liver oil	Mar. 5, 1872	Dec. 21, 1875
2,266	Tucker, John W., San Francisco, Cal. Watches	July 18, 1874	Mar. 2, 1875
2,507	Same	May 1, 1875	May 11, 1875
2,508	Same	May 1, 1875	May 11, 1875
2,632	Same	May 22, 1875	June 1, 1875
2,195	Tucker Manufacturing Company, Boston, Mass. Spring-bed	Dec. 12, 1874	Jan. 26, 1875
2,652	Same	Mar. 18, 1875	June 8, 1875
2,210	Tufts, James W., Medford, Mass. Silver-plated goods	Jan. 25, 1875	Feb. 2, 1875
2,431	Same	Jan. 15, 1872	May 4, 1875
2,509	Turner & Co., J. J., Baltimore, Md. Fertilizer	July 25, 1870	May 11, 1875
2,855	Tuttle Manufacturing Company, Naugatuck, Conn. Hoes, forks, rakes, &c	Dec. 1, 1874	Aug. 24, 1875
2,805	Uhler, English & Boileau, Philadelphia, Pa. Rope, twines, gilling-thread, &c	July 9, 1875	Aug. 3, 1875
2,297	Underwood & Co., William, Boston, Mass. Deviled entremets	Oct. 25, 1870	Mar. 16, 1875
2,377	United States Corset Company, New York, N. Y. Corsets	Mar. 29, 1875	Apr. 13, 1875
2,378	Same	Mar. 29, 1875	Apr. 13, 1875
2,633	Same	May 3, 1875	June 1, 1875
2,653	Same	Mar. 29, 1875	June 8, 1875
2,229	Upham, Samuel C., Philadelphia, Pa. Perfumery and toilet articles	Jan. 15, 1875	Feb. 9, 1875
2,279	Same	Feb. 23, 1875	Mar. 9, 1875
2,892	Van Brunt & Davis, Horicon, Wis. Combined seed-sowers and cultivators	July 12, 1875	Aug. 31, 1875
2,326	Van Ingen, Peter D., Brooklyn, Mass. Bitters	Mar. 19, 1875	Mar. 30, 1875
2,673	Vantine & Co., A. A., New York, N. Y. Fans	Apr. 30, 1875	June 15, 1875
3,075	Van Tine & Co., H. C., Pittsburgh, Pa. Lubricating-oil	July 24, 1875	Oct. 19, 1875
2,942	Vickers' Sons, Paxton, New York, N. Y. Tea	June 19, 1875	Sept. 14, 1875
2,806	Vickery, George H., Hyde Park, Pa. Baking-powder	May 8, 1875	Aug. 3, 1875
2,726	Vidvard & Sheehan, Utica, N. Y. Whisky	Jan. 24, 1871	July 6, 1875
2,727	Same	Mar. 25, 1871	July 6, 1875

List of trade-marks registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
2, 173	Vogell, Henry E., New York, N. Y. Carpet-warp	Dec. 30, 1874	Jan. 19, 1875
2, 728	Volta Belt Company, Cincinnati, Ohio. Electro-voltaic bands	Apr. 23, 1875	July 6, 1875
3, 097	Vulcanite Optical Instrument Company, New York and College Point, N. Y. Spectacles, eye-glasses, and other optical instruments made of hard rubber	Sept. 28, 1875	Oct. 26, 1875
2, 541	Walker, Joseph H., Worcester, Mass. Boots	July 15, 1872	May 18, 1875
3, 099	Wallach, A. & E., New York, N. Y. Buttons	Sept. 10, 1875	Oct. 26, 1875
2, 598	Walter & Fielding, New York, N. Y. Paints	Aug. 10, 1871	May 25, 1875
2, 599	Same. same	Aug. 10, 1871	May 25, 1875
2, 783	Same. Driers, drying-oils, and varnishes	June 16, 1875	Sept. 21, 1875
2, 335	Walton, Frederick, Staines, England. Floor-cloths and similar fabrics	Mar. 22, 1875	Mar. 30, 1875
3, 240	Walton, Whann & Co., Wilmington, Del. Fertilizer	Dec. 1, 1875	Dec. 14, 1875
2, 242	Same. Fertilizers	Nov. 1, 1871	Feb. 16, 1875
2, 695	Same. Commercial fertilizers	Nov. 1, 1871	June 22, 1875
2, 729	Same. Fertilizer	May 15, 1871	July 6, 1875
2, 730	Same. same	Nov. 3, 1875	July 6, 1875
2, 327	Wannalanset Manufacturing Company, Boston, Mass. Hose for pumps, engines, &c.	Feb. 8, 1875	Mar. 30, 1875
3, 144	Ware & Co., P., jr., Boston, Mass. Boots and shoes	Oct. 14, 1875	Nov. 16, 1875
3, 183	Warner & Co., R., Boston, Mass. Clothes-pins	Nov. 16, 1875	Nov. 30, 1875
2, 900	Warren, Isaiah, Wheeling, W. Va. Soap	Aug. 26, 1875	Sept. 7, 1875
2, 901	Same. same	Aug. 26, 1875	Sept. 7, 1875
2, 311	Washington Mills, Lawrence, Mass. Woolen, worsted, and cotton goods	Mar. 8, 1875	Mar. 23, 1875
2, 784	Watson & Clark, Philadelphia, Pa. Superphosphate	Oct. 22, 1870	Sept. 21, 1875
3, 098	Watt & Call, Richmond, Va. Plows, agricultural implements, and castings for the same	Sept. 25, 1875	Oct. 26, 1875
3, 082	Wattles & Son, Joseph W., Canton, Mass. Composition in use for sizing warps	Sept. 23, 1875	Oct. 19, 1875
2, 358	Wattles, James D., New York, N. Y. Medical preparation	Mar. 27, 1875	April 6, 1875
2, 359	Wattles, Joseph W., Canton, Mass. Suspenders and elastic bedding	Sept. 10, 1870	April 6, 1875
2, 510	Weber, Ernst A., Brooklyn, N. Y. Medical compound	Apr. 3, 1875	May 11, 1875
3, 018	Wechsler & Co., Abraham, Brooklyn, N. Y. Dry goods	Mar. 13, 1875	Oct. 5, 1875
2, 301	Weeks & Dupee, Boston, Mass. Chemical for dyeing	Oct. 18, 1871	Mar. 16, 1875
3, 054	Weidmann & Co., A., New York, N. Y. Christmas candles and toys	July 14, 1875	Oct. 19, 1875
2, 511	Wellington, Kidder & Co., New York, N. Y. Wine	Mar. 22, 1875	May 11, 1875
2, 243	Wells, Ephraim S., Jersey City, N. J. Compound for destroying, rats, mice, roaches, &c.	Feb. 3, 1875	Feb. 16, 1875
2, 654	Wemple & Co., Charles E., New York, N. Y. Calendars and almanacs	May 28, 1875	June 8, 1875
3, 279	Werk & Sons, M., Cincinnati, Ohio. Wine	Feb. 21, 1871	Dec. 21, 1875
2, 898	Wertheimer & Co., New York, N. Y. Gloves	Aug. 11, 1875	Aug. 31, 1875
3, 239	West, Trafford & Co., Westport, Mass. Medical preparation	Nov. 24, 1875	Dec. 14, 1875
6, 731	Westfield Cigar M. ker's Co-operative Association, Westfield, Mass. Cigars	June 21, 1875	July 6, 1875
2, 916	Weyman & Brother, Pittsburgh, Pa. Snuff	July 28, 1875	Sept. 7, 1875
2, 943	Wheeler & Wilson Manufacturing Company, Bridgeport, Conn. Sewing-machines	July 17, 1875	Sept. 14, 1875
2, 831	Wheelock, Joseph, jr., Troy, N. Y. Shirts	Mar. 2, 1875	Aug. 17, 1875
3, 145	White & Co., R. H., Boston, Mass. Kid gloves	Oct. 26, 1875	Nov. 16, 1875
3, 146	Same. same	Oct. 26, 1875	Nov. 16, 1875
2, 227	White & McCracken, Des Moines, Iowa. Cigars	Jan. 2, 1875	Feb. 9, 1875
3, 184	Whiteley, Fassler & Kelly, Springfield, Ohio. Harvesting-machines	Feb. 1, 1873	Nov. 30, 1875
3, 185	Same. Self-rakes, droppers, reels, &c., of harvesters	Feb. 1, 1873	Nov. 30, 1875
3, 186	Same. Guard-fingers, knife-sections, &c., of harvesters	Feb. 1, 1873	Nov. 30, 1875
3, 027	Whiteley, George, Philadelphia, Pa. Schiedam gin	July 31, 1875	Oct. 11, 1875
2, 571	Whitlock & Abrams, Richmond, Va. Cigars	May 11, 1875	May 18, 1875
2, 336	Whitman Agricultural Works, Saint Louis, Mo. Cider-mills	Mar. 22, 1875	Mar. 30, 1875
3, 076	Whitman & Son, Stephen F., Philadelphia, Pa. Confectionery	Jan. 26, 1874	Oct. 19, 1875
2, 318	Whitney & Co., Lowell, Mass. Prepared beef and beef tongues	Mar. 13, 1875	Mar. 23, 1875
3, 077	Whitney & Currier, Toledo, Ohio. Church and parlor reed-organs	June 3, 1875	Oct. 19, 1875
2, 634	Whyland, Albert E., New York, N. Y. Soap	May 15, 1875	June 1, 1875
2, 512	Wiard & Hough, East Avon, N. Y. Plows, cultivators, &c.	Mar. 20, 1872	May 11, 1875
2, 217	Wiener, George, Philadelphia, Pa. Cigars	Jan. 25, 1875	Feb. 9, 1875
2, 917	Wilcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machines	July 27, 1875	Sept. 7, 1875
2, 918	Same. Sewing-machine needles and attachments	July 27, 1875	Sept. 7, 1875
2, 856	Wilder & Co., Asbland, N. H., and Boston, Mass. Water-closet paper	Apr. 19, 1875	Aug. 24, 1875
2, 655	Willets & Co., Philadelphia, Pa. Fever and ague pills	May 18, 1875	June 8, 1875
2, 202	Williams, Blanchard & Co., San Francisco, Cal. Teas	Jan. 18, 1875	Feb. 2, 1875
2, 203	Same. same	Jan. 18, 1875	Feb. 2, 1875
2, 253	Same. same	Feb. 10, 1875	Feb. 23, 1875
2, 211	Williams, J. H. & N. A., Utica, N. Y. Wire goods	Jan. 25, 1875	Feb. 2, 1875
3, 241	Williams, Lydia A., Warren, Pa. Washing-powder	Oct. 26, 1875	Dec. 14, 1875
2, 600	Williams, Thomas C., and James Thomas, jr., Richmond, Va. Tobacco	June 23, 1871	May 25, 1875
2, 832	Williamson, Edward J., Saint Louis, Mo. Beverages	June 6, 1871	Aug. 17, 1875
2, 893	Williston, A. Lyman, Northampton, Mass. Indelible ink	Jan. 29, 1872	Aug. 31, 1875
3, 039	Wilson & Co., Walter G., Philadelphia, Pa. Cakes, crackers, and biscuits	Sept. 22, 1875	Oct. 11, 1875
2, 935	Wilson Packing Company, Chicago, Ill. Prepared meats	July 24, 1875	Sept. 14, 1875
3, 055	Wood & Brothers, J., Philadelphia, Pa. Sheet-iron	Sept. 17, 1875	Oct. 19, 1875
2, 744	Wood & Co., Alan, Philadelphia, Pa. Sheet or plate iron	Aug. 11, 1871	July 20, 1875
2, 745	Same. Sheet and plate iron	Aug. 11, 1871	July 20, 1875
3, 187	Wood & Co., O. K., West Chazy, N. Y. Grain-separators	Nov. 11, 1875	Nov. 30, 1875
3, 188	Same. same	Nov. 11, 1875	Nov. 30, 1875
3, 285	Wood Mowing and Reaping Machine Company, Walter A., Hoosick Falls, N. Y. Mowing and reaping machines and grain-binders	Dec. 13, 1875	Dec. 28, 1875
2, 244	Wood, Weeks & Co., Baltimore, Md. Refined sugars	Sept. 29, 1874	Feb. 16, 1875
3, 123	Woodruff & Co., H. S., Janesville, Wis. Trace-buckles	Sept. 13, 1875	Nov. 2, 1875
6, 732	Woods, Sherwood & Co., Lowell, Mass. Wire goods	Jan. 8, 1875	July 6, 1875
2, 212	Woodward, James E., Boston, Mass. Medicine	Jan. 22, 1875	Feb. 2, 1875
3, 056	Woodworth & Son, C. B., Rochester, N. Y. Perfumeries	Feb. 27, 1873	Oct. 19, 1875
2, 919	Wright & Co., J. P., Philadelphia, Pa. Smoked meats and other provisions	July 24, 1875	Sept. 7, 1875
2, 936	Wright, Harriet E., New York, N. Y. Remedy for St. Vitus' dance or chorea	July 2, 1875	Sept. 14, 1875
3, 286	Ybor & Co., V. Martinez, New York, N. Y. Tobacco and cigars	Sept. 24, 1875	Dec. 28, 1875
3, 287	Same. same	Oct. 12, 1875	Dec. 28, 1875
2, 572	Yerba Buena Bitters Company, San Francisco, Cal. Medicine	Apr. 16, 1875	May 18, 1875
2, 337	Young, Ladd & Coffin, New York, N. Y. Atomizers	Mar. 13, 1875	Mar. 30, 1875
2, 451	Zoller & Little, Baltimore, Md. Roasted coffee	Apr. 23, 1875	May 4, 1875
2, 452	Same. same	Apr. 23, 1875	May 4, 1875

LIST OF LABELS REGISTERED DURING THE YEAR 1875.

No.	Name, residence, and title.	Date of filing.	Date of registration.
177	Al Burtis, Edward K., Ridgefield, N. J. "A specific for the cure of Bronchitis, etc."	Jan. 30, 1875	Feb. 20, 1875
455	Aldom, Edward, Brooklyn, N. Y. "The Golden Bird Gravel"	Dec. 18, 1875	Dec. 28, 1875
171	Alexander & Brother, Austin, Tex. "Alexander's Texas Tonic Pills for Chills and Fevers"	Feb. 5, 1875	Feb. 20, 1875
172	Same..... "Alexander's Compound Elixir of Stillingia, with Iodide Potash, etc."	Feb. 5, 1875	Feb. 20, 1875
173	Same..... "Alexander's Pectoral Sirup for Coughs, Colds, etc."	Feb. 5, 1875	Feb. 20, 1875
174	Same..... "Alexander's Neutralizing Cordial for Diarrhea, etc."	Feb. 5, 1875	Feb. 20, 1875
175	Same..... "Alexander's Compound Extract of Buchu"	Feb. 5, 1875	Feb. 20, 1875
259	Am Ende, Charles G., Hoboken, N. J. "Liquid of Borates Compound"	June 24, 1875	June 29, 1875
260	Anderson, Christian, Dayton, Ohio. "Anderson's Toothache Specific"	June 12, 1875	June 29, 1875
413	Appleton, Lancaster & Co., Lexington, Ky. "Lexington Doeskin Jeans"	Nov. 6, 1875	Dec. 7, 1875
414	Aschmann, Godfrey, Philadelphia, Pa. "Sunlight Stove Blacking"	Nov. 16, 1875	Dec. 7, 1875
319	Atwood, Hermon W., New York, N. Y. "The Atwood Cologne"	July 31, 1875	Sept. 14, 1875
427	Babcock, James A., New York, N. Y. "Silver shine for Silver Plated Ware," &c.	Nov. 29, 1875	Dec. 14, 1875
253	Badger, Benjamin F., Charlestown, Mass. "Caution"	May 28, 1875	June 3, 1875
211	Baker, Isaac L., Dayton, Ohio. "Stir Well Before Pouring"	Mar. 11, 1875	Mar. 17, 1875
326	Balser, Gustavus, New York, N. Y. "Balser's Fever and Ague Cure"	Sept. 15, 1875	Sept. 21, 1875
251	Barber Match Company, Akron, Ohio. "Barber Match Company, Akron, O."	May 5, 1875	June 1, 1875
246	Bayles, Alfred G., New York, N. Y. "The Bayles Burner"	May 14, 1875	June 1, 1875
415	Beardsley & Sons, J. W., New York, N. Y. "New York Patent Steam Slicing Co.'s 'Eureka' Smoked Beef"	Dec. 11, 1875	Dec. 7, 1875
296	Bell & Co., R. W., Buffalo, N. Y. "R. W. Bell & Co.'s Transparent Sweet Brier Soap"	July 12, 1875	Aug. 10, 1875
297	Same..... "R. W. Bell & Co.'s Glycerine Soap"	July 12, 1875	Aug. 10, 1875
375	Benjamin & Yerks, Albany, N. Y. "Garden Tomatoes. Benjamin & Yerks, Albany, N. Y."	Nov. 3, 1875	Nov. 9, 1875
238	Benjamin, Edward M., New York, N. Y. "Hand Loom Silk"	Apr. 3, 1875	May 11, 1875
399	Bense, D., Brooklyn, N. Y. "De Bense's Spanish Fever Drops"	Nov. 20, 1875	Nov. 10, 1875
189	Bickley, William M., Philadelphia, Pa. "Rose Glycerine Jelly"	Feb. 23, 1875	Mar. 8, 1875
401	Billings, Clapp & Co., Boston, Mass. "Elixir Peruvian Bark with Protoxide of Iron"	Nov. 15, 1875	Nov. 30, 1875
402	Same..... same.....	Nov. 20, 1875	Nov. 30, 1875
403	Same..... same.....	Nov. 15, 1875	Nov. 30, 1875
404	Same..... same.....	Nov. 20, 1875	Nov. 30, 1875
405	Same..... same.....	Nov. 15, 1875	Nov. 30, 1875
302	Bonham, J. S., Jacksborough, Tenn. "Bonham's Recipes"	July 16, 1875	Aug. 17, 1875
190	Boswell & Huntington, Norwich, Conn. "Tyler's Compound Honey of Boneset"	Feb. 23, 1875	Mar. 8, 1875
218	Bower, George C., Philadelphia, Pa. "Mead Extract"	Mar. 11, 1875	Apr. 2, 1875
442	Bowker, W. H., Boston, Mass. "Animal Meal"	Dec. 13, 1875	Dec. 21, 1875
359	Brown & Co., Arthur K., Boston, Mass. "Feinture Francaise, or French Dye and Finish"	Oct. 19, 1875	Oct. 26, 1875
217	Brown & Co., J. H., Saint Louis, Mo. "Brown's American Dressing for Boots and Shoes"	Mar. 20, 1875	Apr. 2, 1875
406	Brown, Frederick A., Indianapolis, Ind. "Calendulene; a glycerine jelly for the toilet"	Nov. 20, 1875	Nov. 30, 1875
241	Brown, G. W., Rockford, Ill. "Dr. Brown's Vapor, Electro-Vapor, and Medicated Bath"	May 10, 1875	May 18, 1875
157	Buck & Rayner, Chicago, Ill. "Ozonized Ox-Marrow, for the Hair"	Dec. 29, 1874	Jan. 19, 1875
339	Buhl, George, Saint Joseph, Mo. "Dr. Buhl's Rheumatic Wonder, for External use"	Oct. 2, 1875	Oct. 11, 1875
340	Same..... "Dr. Buhl's Instant Relief, for External and Internal use"	Oct. 2, 1875	Oct. 11, 1875
240	Bullocke, John, Bay Ridge, N. Y. "J. N. Richardson, Son & Owden To the Wearer"	May 8, 1875	May 18, 1875
363	Burrell, David T., Brockton, Mass. "Ribbons and Dress Goods as they appear when photographed"	Oct. 23, 1875	Nov. 2, 1875
400	Bush, Leonidas H., Des Moines, Iowa. "Colby's Asthma Remedy"	Nov. 20, 1875	Nov. 20, 1875
428	Byers, William C., Pittsburgh, Pa. "White Rubber Cement"	Dec. 6, 1875	Dec. 14, 1875
347	Caldwell, John A., New York, N. J. "One Pound Centennial Coffee"	Oct. 13, 1875	Oct. 19, 1875
364	Carell, S. F., New York, N. Y. "Carell's Aromatic Wine-Bitters"	Oct. 21, 1875	Nov. 2, 1875
320	Carter, John M., Newburyport, Mass. "Japanese Wafers"	Aug. 18, 1875	Sept. 14, 1875
268	Carter, L. F., Georgetown, Mass. "Carter's Aromatic Scotch Bitters"	July 6, 1875	July 13, 1875
152	Chome & Co., New York, N. Y. "The French Vinous Essence"	Nov. 7, 1874	Jan. 6, 1875
234	Clark, Walter V., and Elon Huntington, New York, N. Y. "Duane Mills"	May 3, 1875	May 11, 1875
256	Cobb, Annie M., Newark, N. J. "Great Fever Remedy, Ten-Day-Ague-Cure"	May 11, 1875	June 15, 1875
321	Coleman, John R., Saint Louis, Mo. "Florentine; A New Iron Water"	Sept. 2, 1875	Sept. 14, 1875
379	Collin, James S., New York, N. Y. "Conlin's Shooting Gallery, 930 Broadway"	Nov. 3, 1875	Nov. 16, 1875
417	Comfort, Charles L., Philadelphia, Pa. "Comfort's Conserve of Hollyhock for Colds, &c."	Nov. 13, 1875	Dec. 7, 1875
418	Same..... "Dr. Comfort's Composing Cordial"	Nov. 13, 1875	Dec. 7, 1875
176	Cook, David C., Chicago, Ill. "For Singer, New Family, Brees, and Home, No. B. A. ¹⁰⁰ / ₁₄₀ "	Feb. 8, 1875	Feb. 20, 1875
416	Cooke, William G., New Haven, Conn. "Royal Dietamia or Medicinal Nutritive"	Nov. 29, 1875	Dec. 7, 1875
314	Corning, William O., New Canaan, Conn. "Cornings German Cologne"	Aug. 24, 1875	Sept. 1, 1875
419	Cox, Thomas J., Jr., Orange, N. J. "An Elegant and Fragrant Preparation for Cleansing and Preserving the Teeth—Orisena"	Dec. 1, 1875	Dec. 7, 1875
348	Craig, Randolph, Morristown, Pa. "R. Craig's Tasteless Tonic Pills"	Oct. 9, 1875	Oct. 19, 1875
349	Cram & Melcher, Chicago, Ill. "Lightning Fluid"	Oct. 14, 1875	Oct. 19, 1875
216	Cranshaw, William, Pittsburgh, Pa. "Toilet Levigated Soap"	Feb. 8, 1875	Apr. 2, 1875
247	Crawford, George H., Ellington, N. Y. "Whisky Antidote"	Apr. 30, 1875	June 1, 1875
350	Crocket, David B., New Haven, Conn. "David B. Crockett's Genuine Spar Composition"	Oct. 14, 1875	Oct. 19, 1875
229	Crosby, F., New York, N. Y. "Vitalized Phosphates"	Mar. 25, 1875	Apr. 17, 1875
456	Davidson, Henry M., Ogdensburgh, N. Y. "Davidson's Instant Tooth-Ache Cure"	Dec. 20, 1875	Dec. 28, 1875
351	Davis, N. P., East Jackson, Me. "Davis' Electric Cholera Remedy"	Sept. 24, 1875	Oct. 19, 1875
240	Dawson, Rachel, Winchester, Ohio. "Dr. Dawson's Cough Syrup"	Mar. 22, 1875	Apr. 2, 1875
376	De Lang, Osterlind & Co., Chicago, Ill. "Holt's Champion Copying and Writing Fluid"	Oct. 22, 1875	Nov. 9, 1875
212	Dennis, William S., Woodstock, Conn. "Dennis' Vegetable Horse Syrup for the Cure of Coughs, Colds, etc."	Mar. 16, 1875	Mar. 17, 1875
281	Dockum & Son, Thomas, Brooklyn, N. Y. "Pure Medicated Brandies"	May 22, 1875	July 20, 1875
254	Donovan, Michael, Henry, and William F., Weymouth, Mass. "Donovan's Rheumatic Liniment"	May 27, 1875	June 7, 1875
307	Dows & Co., B. W., Lowell, Mass. "Dows' East End Cologne"	July 21, 1875	Aug. 24, 1875
225	Drake & Brown, West Lebanon, N. H. "Chilblain Specific"	Mar. 27, 1875	Apr. 17, 1875
365	Drake, Rutger L., Troy, N. Y. "Glycerine and Camphor Cream"	Oct. 25, 1875	Nov. 2, 1875
312	Dueber Watch-Case Manufacturing Company, Cincinnati, Ohio. "The Dueber Watch-Case Mfg. Co."	Aug. 13, 1875	Aug. 24, 1875
443	Dunn, Francis, Brooklyn, N. Y. "Dunn's Elixir of Wild Cherry and Tar"	Dec. 14, 1875	Dec. 21, 1875
291	Edson, Marmont B., Brooklyn, N. Y. "Chart adapted for and used with Edson's Pressure Recording Gages"	Mar. 11, 1875	Aug. 3, 1875
236	Elliott, Horace H., Boston, Mass. "H. H. Elliott's Pain Reliever, etc."	Apr. 23, 1875	May 11, 1875
420	Emmerich, August, New London, Conn. "The Pequot Cigar"	Dec. 1, 1875	Dec. 7, 1875
444	Falkenberg, Benjamin, Philadelphia, Pa. "A Certain Cure for Gonorrhoea and Gleet"	Aug. 5, 1875	Dec. 21, 1875
366	Farrar & Co., S. B., Chicago, Ill. "The Triumphant Gas or Domestic Compound for Illuminating Purposes"	Oct. 15, 1875	Nov. 2, 1875

List of labels registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
429	Farrell, Hiram G., Peoria, Ill. "H. G. Farrell's Celebrated Arabian Liniment".....	Dec. 7, 1875	Dec. 14, 1875
360	Filkins, Bro., M. L., Albany, N. Y. "Dr. J. Blackman's Genuine Healing Balsam".....	Oct. 14, 1875	Oct. 26, 1875
248	Fillette, Theodore, New York, N. Y. "Fillett's Sherry Wine Tonic".....	May 22, 1875	June 1, 1875
327	Finch, Mrs. R. P., South Berd, Ind. "Mrs. R. P. Finch's Transformer for Curling the Hair".....	Sept. 11, 1875	Sept. 21, 1875
269	Fisk, Clark & Flagg, New York, N. Y. "Fisk, Clark & Flagg, City Made".....	June 3, 1875	July 13, 1875
380	Fitzgerald, John L., Spencer, Mass. "For Single Box, \$1.00. This Irish Salve is warranted to cure, &c.".....	Nov. 5, 1875	Nov. 16, 1875
165	Forest Tar Co., Portland, Me. "Forest Tar in Solution, for Inhalation, and as a wash for all Diseases of the Skin".....	Feb. 1, 1875	Feb. 20, 1875
166	Same..... "Forest Tar Troches, for Bronchitis, etc.".....	Feb. 1, 1875	Feb. 20, 1875
167	Same..... "Forest Tar for Consumption, etc.".....	Feb. 1, 1875	Feb. 20, 1875
168	Same..... "Forest Tar Salve".....	Feb. 1, 1875	Feb. 20, 1875
231	Same..... "Forest Tar Soap, for cleansing and healing the Skin".....	Apr. 8, 1875	Apr. 17, 1875
445	Foss, Lauritz, Chicago, Ill. "Sympathetic Writing Fluid".....	Dec. 11, 1875	Dec. 21, 1875
270	Frost & Co., C. C., Manchester, N. H. "Dr. C. C. Frost's Indian Vegetable Cough and Humor Cure".....	June 14, 1875	July 13, 1875
261	Frost, George, and George H. Phelps, Boston, Mass. "The Dress-Reform Corset-Waist and Skirt-Supporter".....	June 18, 1875	June 29, 1875
271	Früh, Carl D. S., Philadelphia, Pa. "Holyoke Sarsaparilla Cream".....	June 29, 1875	July 13, 1875
430	Gaines & Co., W. A., Frankfort, Ky. "Old Hermitage Bourbon Whiskey".....	Dec. 4, 1875	Dec. 14, 1875
431	Same..... "Old Hermitage Rye Whiskey".....	Dec. 4, 1875	Dec. 14, 1875
330	Garceau, Alexander, Boston, Mass. "Pepsinated Food for Infants and Invalids".....	Sept. 20, 1875	Sept. 28, 1875
394	Garden & Minor, Belmont, Wis. "That Liniment. Good for Man or Beast".....	Oct. 20, 1875	Nov. 23, 1875
179	Gates, George W., Providence, R. I. "Dr. Tremaine's Improved Hair Oil".....	Feb. 11, 1875	Feb. 20, 1875
367	Gause, John H., Cleveland, Ohio. "John H. Gause & Co., Neptune Brand Spices".....	Jan. 12, 1875	Nov. 2, 1875
315	Gerard, Peter, Philadelphia, Pa. "Delaware Oil".....	Aug. 10, 1875	Sept. 1, 1875
272	Gill, Ebenezer, Great Bend, Pa. "Gill's Bilious and Liver Pills".....	July 1, 1875	July 13, 1875
264	Gillet, McCulloch & Co., Chicago, Ill. "Gillet's Laundry Castile Soap".....	June 23, 1875	June 29, 1875
352	Gillis, Mary K., Bremen, Ohio. "Dr. S. M. Gillis' Pyro-Magic Liniment".....	Oct. 11, 1875	Oct. 19, 1875
228	Girard, Francis, Philadelphia, Pa. "Dr. F. Girard's Liniment for horses and cattle".....	Mar. 25, 1875	Mar. 17, 1875
353	Golden, Owen H., Buffalo, N. Y. "Dr. Golden's Magnetic Ointment".....	Oct. 5, 1875	Oct. 19, 1875
181	Goodrich, H. C., Philadelphia, Pa. "Goodrich's Tuck Folder".....	Feb. 10, 1875	Feb. 25, 1875
205	Great American Confectionery Company, New York, N. Y. "Haggis Chewing Gum".....	Feb. 20, 1875	Mar. 16, 1875
354	Greaves, Catherine A., and Martha D. Chapman, Hartford, Conn. "Westminster Sauce".....	Oct. 6, 1875	Oct. 19, 1875
316	Green, John, Somerville, Mass. "Olive Catarrh Remedy".....	Aug. 13, 1875	Sept. 1, 1875
333	Green, Lewis M., Woodbury, N. J. "Dr. A. Boschee's German Syrup of Tar, Wild Cherry, &c".....	Sept. 18, 1875	Oct. 5, 1875
298	Griffith, William A., Washington, D. C. "Griffith's Rheumatic Relief".....	Aug. 5, 1875	Aug. 10, 1875
299	Same..... "Cancer and Tetters Cure".....	Aug. 5, 1875	Aug. 10, 1875
300	Same..... "Griffith's Catarrh Remedy".....	Aug. 5, 1875	Aug. 10, 1875
395	Gruinan & Co., J. B. Westwood, N. J. "Gruinan's Genuine English Mustard".....	Nov. 15, 1875	Nov. 23, 1875
421	Hall, John D., Brooklyn, N. Y. "Men and Youths Pants and Vest Patterns".....	Dec. 2, 1875	Dec. 7, 1875
432	Ham, Herbert H., Boston, Mass. "Hamm's Pure German Mustard".....	Dec. 6, 1875	Dec. 14, 1875
282	Hamed & Co., Brooklyn, N. Y. "The Victory".....	Dec. 31, 1875	July 20, 1875
262	Harrington & Co., John, Boston, Mass. "Home Made Shirt".....	June 17, 1875	June 29, 1875
186	Harris, C. P., Damariscotta, Me. "Harris' Anodyne Liniment, Internal and External, for Man and Beast".....	Feb. 23, 1875	Mar. 8, 1875
322	Harris, John J., Evansville, Ind. "Harris' (Sherwood's) Cough Specific and Lung Balsam".....	Sept. 6, 1875	Sept. 14, 1875
222	Harris, Joseph W., Providence, R. I. "Cleansing Fluid for Destroying Bed Bugs, etc.".....	Mar. 18, 1875	Apr. 2, 1875
273	Harrison, William, Lawrence, Mass. "The Leader Shirt".....	Feb. 11, 1875	July 13, 1875
224	Heath, Mead & Co., Mount Clemens, Mich. "Warrantee".....	Mar. 20, 1875	Apr. 2, 1875
233	Herzinger, L., New York, N. Y. "Blut & Saft Reinigungs Thee".....	May 1, 1875	May 11, 1875
249	Same..... "Echte Hollandsche Drie Honinger Thee".....	May 1, 1875	June 1, 1875
283	Same..... "L. Wassly's Alpenkrauter Thee".....	June 17, 1875	July 20, 1875
433	Hetsche Bros., Newport, Ky. "Beware of Counterfeit Notes".....	Nov. 24, 1875	Dec. 14, 1875
226	Hill, C. B. Roxbury, Mass. "The Celebrated Ribbon Crisp Candy".....	Mar. 27, 1875	Apr. 17, 1875
183	Hohl, August, Philadelphia, Pa. "Pastilles Aromatic for Sick Room and Parlor".....	Feb. 15, 1875	Feb. 25, 1875
303	Hollen, F., Wilsonburgh, Ill. "Dr. Hollen's Healing Oil".....	June 10, 1875	Aug. 17, 1875
361	Hollon, Henry W., Skaneateles, N. Y. "Hollon's Headache Remedy".....	Oct. 19, 1875	Oct. 26, 1875
446	Hoyt, Belle K., Providence, R. I. "German Nerve Balm".....	Dec. 13, 1875	Dec. 21, 1875
185	Hunt, George W., West Baltimore, Ohio. "George W. Hunt's Great Dyspepsia Cure".....	Feb. 19, 1875	Feb. 25, 1875
434	Jacobson, Julius, Boston, Mass. "Golden Medal".....	Dec. 4, 1875	Dec. 14, 1875
457	Jennings, Russell, Deep River, Conn. "Extension-Lip Spur Auger Bitts".....	Dec. 18, 1875	Dec. 28, 1875
257	Johnson & Co., H. T., Boston, Mass. "The Standard Desk Pad".....	May 5, 1875	June 15, 1875
334	Johnson & Co., Oliver, Providence, R. I. "Barber's Indian Vegetable Jaundice Bitters".....	Sept. 25, 1875	Oct. 5, 1875
287	Joy, Frank L., Chicago, Ill. "Livingston's Indelible Carmine Ink".....	June 28, 1875	July 27, 1875
188	Kebbe, Chaffee & Co., Philadelphia, Pa. "S K 110 C B".....	Feb. 19, 1875	Mar. 8, 1875
288	Kellogg, E. H., New York, N. Y. "Anti Corrosive Cylinder Oil".....	July 15, 1875	July 27, 1875
341	Same..... "Superlative Wool and Spindle Oil".....	Aug. 30, 1875	Oct. 11, 1875
362	Same..... "Stainless Wool and Spindle Oil".....	Oct. 20, 1875	Oct. 26, 1875
368	Same..... "Anti-Frothing Oil".....	Oct. 25, 1875	Nov. 2, 1875
458	Same..... "Brilliant Signal Oil".....	Dec. 20, 1875	Dec. 28, 1875
459	Same..... "XX Engine and Spindle Oil".....	Dec. 20, 1875	Dec. 28, 1875
169	Kellogg, Henry H., Watertown, N. Y. "Kellogg's Arnica Wormwood & Witch Hazel Medicated Sticking Salve and Strengthening Plaster".....	Feb. 10, 1875	Feb. 20, 1875
355	Same..... "Jelly Glue".....	Oct. 17, 1875	Oct. 19, 1875
356	Same..... "Domestic Glue".....	Sept. 17, 1875	Oct. 19, 1875
329	Kelly, Riley & Co., Millville, Pa. "The Irish Fairy Gloss Starch".....	Sept. 4, 1875	Sept. 21, 1875
162	Kendall, W. H., Boston, Mass. "Kendall's Pleasant Regulating Lozenges".....	Jan. 20, 1875	Feb. 2, 1875
369	King, Charles F., P. B. Howland, and Samuel Parker, Chicago, Ill. "The Celebrated Florentine Flake Candy".....	Oct. 29, 1875	Nov. 2, 1875
187	King, D. G., Newport, Me. "King's German Invigorating Cordial. Purely Vegetable".....	Feb. 26, 1875	Mar. 8, 1875
396	Knowlson, Albert T., Titusville, Pa. "Erasine, for Erasing Ink from Paper, and Removing Stains from Cotton, &c.".....	Nov. 15, 1875	Nov. 23, 1875
422	Kubue, H., Cincinnati, Ohio. "Dr. Kubue's Stimulating Liniment".....	Dec. 2, 1875	Dec. 7, 1875
284	Kunkel, Edwin F., Philadelphia, Pa. "Kunkel's Bitter Wine of Iron".....	Mar. 3, 1875	July 20, 1875
357	Laemmrich, August, New York, N. Y. "Drink' mich aus und leg' mich nieder; steh' ich auf dann füll mich wieder".....	Sept. 30, 1875	Oct. 19, 1875
184	Laurence, W. H., Brooklyn, N. Y. "Mrs. Van Sicken's Carbolated Family Salve".....	Feb. 19, 1875	Feb. 25, 1875
397	Lautenbach, Robert, Baltimore, Md. "Lautenbach's Cod Liver Oil, with Churchill's Hypophosphites and Phosphate of Lime".....	Nov. 5, 1875	Nov. 23, 1875
323	Lantz Brothers & Co., Buffalo, N. Y. "Hamburger Seife".....	July 8, 1875	Sept. 14, 1875
263	Leisler & Sommerhoff, New York, N. Y. "Warranted 12 Yards".....	June 26, 1875	June 29, 1875
324	Leonard, Jonathan, Norwalk, Ohio. "Recipe and Directions for making Crystal Maple Sirup".....	May 19, 1875	Sept. 14, 1875
250	Lester, George, Brooklyn, N. Y. "Empire City Glaziers' Points".....	May 26, 1875	June 1, 1875
407	Levison & Blythe, Saint Louis, Mo. "Champion Violet Copying and Record Fluid".....	Mar. 18, 1875	Nov. 30, 1875
160	Linde & Co., Frederick C., New York, N. Y. "This case has been Sampled. Stripped. Sample Warranted".....	Jan. 18, 1875	Jan. 22, 1875
274	Loag, Samuel, Philadelphia, Pa. "Dublin Laundry Blue".....	June 16, 1875	July 13, 1875
326	Magee, George A., Paterson, N. J. "George A. Magee, Manufacturer of Awnings, Banners, Tents, and Flags".....	Sept. 24, 1875	Oct. 5, 1875

List of labels registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
408	Marble & Co., Jerome, Worcester, Mass. "Vats and appliances for using Jerome Marble & Co.'s Patent Indigo-Blue Dye, Worcester, Mass."	June 11, 1875	Nov. 30, 1875
335	Marsh, Hurd & Co., New York, N. Y. "Hurd's Magical Mixture for Washing Clothes"	Sept. 24, 1875	Oct. 5, 1875
447	Martin, Israel W., Irvin, Ind. "Dr. Martin's Ague Pills"	Dec. 10, 1875	Dec. 21, 1875
462	Mathis, Charles B., Tom's River, N. J. "Mathis' Quarter Dollar Family Liniment"	Dec. 20, 1875	Dec. 28, 1875
242	May, Alexander, Jeffersonville, Ind. "Superior Coloring for Butter"	May 17, 1875	May 18, 1875
423	Mayne, Charles, New York, N. Y. "Deutches Kindermehl—German Infant Meal"	Nov. 29, 1875	Dec. 7, 1875
191	McAleer, F. & A., New York, N. Y. "This case has been regularly stripped and sampled. We guarantee the Sample"	Mar. 2, 1875	Mar. 8, 1875
192	Same....."Stripped and Guaranteed"	Mar. 2, 1875	Mar. 8, 1875
435	McConnell, William, Philadelphia, Pa. "Amusement, Novelty, and Variety. The Seasons and Cassino"	Nov. 27, 1875	Dec. 14, 1875
170	McCulloch & Co., Gillet, Chicago, Ill. "Gillet's Kitchen Castile Soap"	Jan. 25, 1875	Feb. 20, 1875
383	Meissner, William, Detroit, Mich. "Wm. Meissner, Proprietor of the Palace Royal Cigars"	Nov. 8, 1875	Nov. 16, 1875
410	Merchants' Tobacco Company, Boston, Mass. "Hopeful Tobacco, Manufactured by the Merchants' Tobacco Co., Boston, Mass."	Nov. 12, 1875	Nov. 30, 1875
411	Same....."Sisters. Sisters' Tobacco, Manufactured by the Merchants' Tobacco Co., Boston, Mass."	Oct. 30, 1875	Nov. 30, 1875
412	Same....."Rival. Rival Tobacco, Manufactured by the Merchants' Tobacco Co., Boston, Mass."	Oct. 30, 1875	Nov. 30, 1875
342	Metcalf & Co., Theodore, Boston, Mass. "T. Metcalf & Co., 39 Tremont St., Boston. Sachet Powder"	Oct. 2, 1875	Oct. 11, 1875
370	Same....."Sachet Powders. T. Metcalf & Co., Boston"	Oct. 29, 1875	Nov. 2, 1875
292	Meyer & Co., A. C., Baltimore, Md. "Bull's Cough Syrup"	July 29, 1875	Aug. 3, 1875
328	Same....."Dr. Bull's Celebrated Pectoral Compound Cough-Syrup"	July 29, 1875	Sept. 21, 1875
265	Miller & Co., S. H., Brooklyn, N. Y. "Patent Single Thread Chain-Stitch Attachment"	June 24, 1875	June 29, 1875
258	Miller, Eliza, and Emeline E. Edwards, Philadelphia, Pa. "Dr. Evans' Herb Syrup"	May 1, 1875	June 15, 1875
221	Miller, Levi L., Canton, Ohio. "Levigated Toilet Soap"	Mar. 15, 1875	Apr. 2, 1875
180	Miller, Son & Co., F., New York, N. Y. "Improved French Blacking"	Feb. 12, 1875	Feb. 20, 1875
381	Mitchell, George E., Lowell, Mass. "Mitchell's Centennial Cologne"	Nov. 10, 1875	Nov. 16, 1875
156	Montgomery & Co., Philadelphia, Pa. "Lavelle's Celebrated Fit Powders"	Dec. 29, 1874	Jan. 6, 1875
266	Moore, Charles C., Elizabeth, N. J. "Moore's Pilules"	June 22, 1875	June 29, 1875
275	Morgan, A., Cambridge, Mass. "Morgan's Polish Reviver"	May 31, 1875	July 13, 1875
210	Morgan, Henry C., Brooklyn, N. Y. "1-2 Doz. Coils Percussion-Primers"	Mar. 15, 1875	Mar. 16, 1875
153	Morgan, William G., Brooklyn, N. Y. "Igniting Tape for the Stockwell Self-Lighting Gas-Burner"	Dec. 26, 1874	Jan. 6, 1875
448	Moriarty, E. J., Clarence, Iowa. "Moriarty's Vegetable Canadian Balm"	Dec. 10, 1875	Dec. 21, 1875
377	Morris & Co., Edward S., Philadelphia, Pa. "Pure Palm Soap, Made in Liberia, Africa"	Nov. 3, 1875	Nov. 9, 1875
352	Mosher, Charles D., Chicago, Ill. "Mosher's Historical National Photographic Art Gallery"	Nov. 11, 1875	Nov. 16, 1875
424	Nashawannuck Manufacturing Company, East Hampton, Mass. "Centennial Brace"	Dec. 3, 1875	Dec. 7, 1875
460	Same....."Continental Brace, Manufactured by the Nashawannuck Manufacturing Company"	Dec. 17, 1875	Dec. 28, 1875
239	National Rubber Company, Providence, R. I. "National Rubber Co., Providence, Rhode Island"	Apr. 12, 1875	May 11, 1875
159	National Suspender Company, New York, N. Y. "The Pivot Brace"	Dec. 21, 1875	Jan. 22, 1875
409	Same....."Corded End Suspender. Each pair will be stamped"	Nov. 19, 1875	Nov. 30, 1875
285	Nichols, F. B., New York, N. Y. "The Grantville Carbolic Acid"	June 22, 1875	July 20, 1875
232	Nichols, Mrs. H. C., East Cambridge, Mass. "Mrs. Nichols' Cure for Nervous or Sick Headache"	Apr. 17, 1875	May 4, 1875
371	Noe, William V., New York, N. Y. "William V. Noe, Manufacturer of the Phosphatic Lead Paint"	Oct. 22, 1875	Nov. 2, 1875
209	Noyes, P. J., Lancaster, N. H. "Carbolic Cream"	Mar. 8, 1875	Mar. 16, 1875
461	O'Brien, M. J., Binghamton, N. Y. "Two Orphans—Cigar manufactured by M. J. O'Brien, Binghamton, N. Y."	Nov. 3, 1875	Dec. 28, 1875
331	Oliver, James L., Boston, Mass. "Teethina—The only Tooth-Powder approved by the Tremont Dentistry of Boston"	Sept. 18, 1875	Sept. 28, 1875
308	Oliver, Paul A., Wilkesbarre, Pa. "Creedmoor Rifle"	June 26, 1875	Aug. 24, 1875
309	Orcutt & Son, D., Painted Post, N. Y. "Orcutt's Salt Rheum Cure"	Apr. 17, 1875	Aug. 24, 1875
436	Owens, R. J., Brooklyn, N. Y. "R. J. Owens, chemist, Carbolic Acid Family Salve"	Dec. 9, 1875	Dec. 14, 1875
384	Paris, Allen & Co., New York, N. Y. "Old Crow Distillery Whisky, W. A. Gaines, distiller, Woodford Co., Ky."	Oct. 27, 1875	Nov. 16, 1875
425	Parker & Co., Brooklyn, N. Y. "Carbolic Pocket Disinfectant"	Dec. 2, 1875	Dec. 7, 1875
267	Patt, Otis T., Woonsocket, R. I. "Dr. O. T. Patt's Veterinary Ointment"	June 19, 1875	June 29, 1875
154	Payn, John G., New York, N. Y. "John G. Payn's Sure Raising Flour"	Dec. 26, 1874	Jan. 6, 1875
332	Peck, Stow and Wilcox Company, Southington, Conn. "50 Superior Carriage-Bolts of Best Refined Iron"	Sept. 20, 1875	Sept. 28, 1875
214	Pelton, Charles A., Middletown, Conn. "Judd's Medicated Liquid Cuticle"	Mar. 13, 1875	Mar. 17, 1875
310	Peters, C. W., Fort Madison, Iowa. "Peters' Catarrh Remedy"	Aug. 20, 1875	Aug. 24, 1875
158	Peters, F. M., Olney, Ill. "The Great Pawnee Indian Remedy"	Jan. 15, 1875	Jan. 19, 1875
437	Piper, Charles S., Boston, Mass. "Russian Waterproof Leather-Preservative"	Dec. 7, 1875	Dec. 14, 1875
276	Popper, Morris, New York, N. Y. "The Adjustable Shirt Front with Fitting Neckband for Shirt"	July 3, 1875	July 13, 1875
337	Putnam, John H., Mansfield, Pa. "Mansfield Iron Paints"	Sept. 23, 1875	Oct. 5, 1875
213	Ragland, J. B., Jackson, Tenn. "Relief"	Dec. 28, 1874	Mar. 17, 1875
208	Raynolds, C. T., New York, N. Y. "Gold-size Coach colors"	Mar. 8, 1875	Mar. 16, 1875
387	Reichardt, F. Alfred, New York, N. Y. "Reichardt's Salicylic Horse Cure"	Oct. 21, 1875	Nov. 16, 1875
386	Relief Manufacturing Company, New York, N. Y. "Mist, Limonis Comp."	Aug. 28, 1875	Nov. 16, 1875
289	Restein Bros., Philadelphia, Pa. "Pennsylvania Collar Company, Phila."	July 17, 1875	July 27, 1875
372	Reynolds, Edmund D. and Oliver B., Brockton, Mass. "List of Goods Shipped"	Oct. 23, 1875	Nov. 2, 1875
385	Richardson & Robbins, Dover, Del. "Richardson & Robbins, Extra Yellow Peaches"	Nov. 2, 1875	Nov. 16, 1875
426	Rick Brothers, Reading, Pa. "Right and Left Acorn Butts"	Nov. 29, 1875	Dec. 7, 1875
207	Ricker & Co., John J., York, Pa. "Dr. Wengert's Ague Remedy"	Feb. 26, 1875	Mar. 16, 1875
290	Riebeling, Adam H., Buffalo, N. Y. "Adam H. Riebeling, Buffalo"	July 12, 1875	July 27, 1875
343	Ripley & Cameron, Flint, Mich. "Prof. Higgins' Healing Ointment"	Oct. 4, 1875	Oct. 11, 1875
344	Same....."Prof. Higgins' Celebrated Condition Powders"	Oct. 4, 1875	Oct. 11, 1875
388	Rosendorf, M. J., Richmond Va. "Capitol, Richmond, Va."	Sept. 6, 1875	Nov. 16, 1875
223	Rowe, Walter R., Lawrence, Mass. "The Leader Shirt"	Mar. 18, 1875	Apr. 2, 1875
161	Ruttley, John H., San Francisco, Cal. "Dr. Ruttley Great Cough and Lung Sirup"	Jan. 26, 1875	Feb. 2, 1875
155	San Antonio Meat-Extract Factory, San Antonio, Tex. "Liebig's San Antonio Meat-Extract"	Dec. 26, 1874	Jan. 6, 1875
389	Sawyer, Henry, Chelsea, Mass. "Sawyer's Crystal Blue"	Nov. 4, 1875	Nov. 16, 1875
390	Same.....same	Nov. 4, 1875	Nov. 16, 1875
338	Schwartz, James E., Pittsburgh, Pa. "Fahnes, Haslett & Schwartz"	Sept. 23, 1875	Oct. 5, 1875
345	Same....."Penna. White Lead Works"	Sept. 23, 1875	Oct. 11, 1875
293	Scott, A. W., Cincinnati, Ohio. "Scott's American Cologne"	July 9, 1875	Aug. 3, 1875
195	Scott, Jane, New York, N. Y. "Alkaline Resolvent"	Feb. 23, 1875	Mar. 8, 1875
196	Same....."Compound Chemical Healing Blood and Bone Ointment"	Feb. 23, 1875	Mar. 8, 1875
197	Same....."Compound Fluid Extract of Cancer Plant"	Feb. 23, 1875	Mar. 8, 1875
198	Same....."Catarrh Specific"	Feb. 23, 1875	Mar. 8, 1875
199	Same....."Ethereal Phosphorus"	Feb. 23, 1875	Mar. 8, 1875
200	Same....."Lithia—The New Chemical Dientic"	Feb. 23, 1875	Mar. 8, 1875
201	Same....."Neuralgo-Rheumatic Elixir"	Feb. 23, 1875	Mar. 8, 1875
202	Same....."Nerve Food—The True Nervine"	Feb. 23, 1875	Mar. 8, 1875

List of labels registered during the year 1875—Continued.

No.	Name, residence, and title.	Date of filing.	Date of registration.
203	Scott, Jane, New York, N. Y. "Pile Extract"	Feb. 23, 1875	Mar. 8, 1875
204	Same....."5 Minute Fragrant Pain Curer"	Feb. 23, 1875	Mar. 8, 1875
206	Same....."Hydrated Oxymel Phosphorus and Fusel Oil"	Feb. 25, 1875	Mar. 16, 1875
278	Same....."Dr. Scott's Compound Sugar-Coated May-Apple Pills"	Feb. 24, 1875	July 13, 1875
294	Seidenberg & Co., New York, N. Y. "S. y Ca., La Rosa Espanola"	Jan. 25, 1875	Aug. 3, 1875
163	Shaw, Charles A., Boston, Mass. "The Carbonized Lamp-Wick"	Jan. 22, 1875	Feb. 2, 1875
311	Simpson, John A., Baltimore, Md. "Peaches. Carmine, Lamdin & Co."	Aug. 13, 1875	Aug. 24, 1875
227	Singer & Wheeler, Peoria, Ill. "Pecares' Salve—Cure for Scratches, Flesh-cuts, &c."	Mar. 22, 1875	Apr. 17, 1875
398	Same....."Singer & Wheeler—Brilliant White Oil"	Nov. 13, 1875	Nov. 23, 1875
219	Slocum, Edward L., and E. Beecher White, Lancaster, Ohio. "Livingston's Cough Soother"	Mar. 18, 1875	Apr. 2, 1875
450	Sohl, Henry, Boston, Mass. "Dr. Henricus' Compound Santal Oil Troches"	Dec. 13, 1875	Dec. 21, 1875
182	Stall, William B., Providence, R. I. "Stall's Unrivalled Filling, for all kinds of hard wood"	Feb. 15, 1875	Feb. 25, 1875
211½	Same....."Stall's Consummatum Polish"	Feb. 15, 1875	Mar. 18, 1875
212½	Same....."Directions for using Stall's Consummatum Polish"	Feb. 15, 1875	Mar. 19, 1875
317	Stanley Rule and Level Company, New Britain, Conn. "Bailey's Patent Iron Block Plane"	Aug. 28, 1875	Sept. 1, 1875
286	Stansbury, James, Clermont Mills, Md. "Asbestos and Talc Oil"	May 25, 1875	July 20, 1875
449	Starr, F. Ratchford, Litchfield, Conn. "Echo"	Dec. 11, 1875	Dec. 21, 1875
463	Steel, Thomas R., Philadelphia, Pa. "T. R. Steel's Celebrated Apple Ginger"	Dec. 18, 1875	Dec. 28, 1875
244	Steketee & Kimm, Grand Rapids, Mich. "Kimm's 50c. Premium Aromatic Bitters"	May 17, 1875	May 18, 1875
243	Stern, I. N., Keokuk, Iowa. "Directions for Using the Manhattan Patent Compound Lye"	May 4, 1875	May 18, 1875
164	Stevens, Benaiah L., Philadelphia, Pa. "1776. Stevens' Celebrated. 1876. German Stove Polish"	Jan. 22, 1875	Feb. 2, 1875
358	Stewart, Hamilton P., Franklin, Mass. "Dr. Stewart's Teething Plasters for Children"	Oct. 11, 1875	Oct. 19, 1875
277	Stewart, James M., Franklin, Mass. "Waite's Patent White Felt Wicking"	July 8, 1875	July 13, 1875
255	Stringer, Mrs. John, New York, N. Y. "Stringer's Pulmonic Syrup"	June 1, 1875	June 3, 1875
304	Syvarth & Schlenssner, Brooklyn, N. Y. "Kinder Suppen Extract"	Aug. 12, 1875	Aug. 17, 1875
252	Taylor, W. S., Philadelphia, Pa. "Taylor's Compound Syrup of Blood-Root and Tar"	May 18, 1875	June 1, 1875
325	Teetzel, William H., Jackson, Mich. "Teetzel's Compound Extract of Buchu, Cubebs, and Co-paiva"	Aug. 24, 1875	Sept. 14, 1875
451	Tetlow, Henry, Philadelphia, Pa. "Henry Tetlow's Blanc Illusion"	Dec. 14, 1875	Dec. 21, 1875
439	Thomas, John W., New Orleans, La. "Thomas' Specific Preparation, Nos. 1, 2, and 3, For the Hair"	Dec. 9, 1875	Dec. 14, 1876
438	Tibbetts, Lewis, Augusta, Me. "Tibbetts' Pile Ointment"	Nov. 22, 1875	Dec. 14, 1875
391	Tilton & Co., S. W., Boston, Mass. "The Sorrento Glue Pot"	Nov. 11, 1875	Nov. 16, 1875
215	Tucker, Frank, Boston, Mass. "Tucker's Chafing-Powder for Old and Young"	Mar. 1, 1875	Apr. 2, 1875
305	Turner, James W., Boston, Mass. "Business Envelope"	May 17, 1875	Nov. 17, 1875
392	Upham, Samuel C., Philadelphia, Pa. "Upham's Malarial, or Fever and Ague Sachet"	Nov. 11, 1875	Nov. 16, 1875
452	Van Alstine, Alonzo, San Francisco, Cal. "Dr. Gunn's Aromatic Elixir Bitters"	Dec. 16, 1875	Dec. 21, 1875
295	Van Arnam, Charles H., Troy, N. Y. "Brazilian Headache Powders"	May 13, 1875	Aug. 3, 1875
373	Wadworth, Dr. E. C., Brooklyn, N. Y. "Centenary Tooth Powder"	Oct. 28, 1875	Nov. 2, 1875
393	Wallace, E. W., Saline, Mich. "E. W. Wallace's National Approved Heave Remedy"	Nov. 8, 1875	Nov. 16, 1875
453	Ward & Co., D. F., Philadelphia, Pa. "Lapalme's Fire Water"	Dec. 9, 1875	Dec. 21, 1875
301	Warner & Co., William R., Philadelphia, Pa. "Warner's Purgative Soda Water"	July 21, 1875	Aug. 10, 1875
378	Weaver, James B., Philadelphia, Pa. "Weaver's Florida Water"	Nov. 5, 1875	Nov. 9, 1875
193	Weld, Charles D., Malden, Mass. "Egg Baking Powder"	Mar. 3, 1875	Mar. 8, 1875
178	Wells, Ephraim S., Jersey City, N. J. "Rough on Rats"	Feb. 3, 1875	Feb. 20, 1875
440	Weltse, John J., Ames, Iowa. "Kriss Kringle"	Nov. 13, 1875	Dec. 14, 1875
464	Weston, Byron, Dalton, Mass. "Double Sized Sample Sheet of the Byron Weston Premium Linen Record Paper"	Dec. 20, 1875	Dec. 28, 1875
245	White, Albert H., Somerville, Mass. "Rupert & White's Botanical Liniment"	May 5, 1875	May 18, 1875
306	White, Joseph, Lancaster, Pa. "Mrs. Bender's Candy"	Aug. 2, 1875	Aug. 17, 1875
318	Whitney, G. F., Boston, Mass. "Dr. Goldsmith's Celebrated Swiss Tonic"	Aug. 25, 1875	Sept. 1, 1875
235	Wiers, Dr. H. J., Hartford, Conn. "Sperry's Cough and Croup Sirup"	Apr. 24, 1875	May 11, 1875
237	Same....."Dr. I. J. Sperry's Female Monthly Pills"	Apr. 24, 1875	May 11, 1875
313	Wilcox & Co., W. J., New York, N. Y. "W. J. Wilcox & Co., Prime Leaf Lard"	Aug. 17, 1875	Aug. 24, 1875
279	Wildes, Adeline W., Boston, Mass. "Chinese Catarrh Remedy"	June 27, 1875	July 13, 1875
230	Woglem, William H., New York, N. Y. "Music Manuscript Ink"	Apr. 1, 1875	Apr. 17, 1875
374	Woodhull & Son, S. E., Newark, N. J. "H. Lockard's Horse Ointment"	Oct. 20, 1875	Nov. 2, 1875
194	Woodward, James E., Boston, Mass. "Castilian Acidulae"	Jan. 18, 1875	Mar. 8, 1875
346	Worthington & Tinges, Baltimore, Md. "Maryland Yeast Powder"	Aug. 10, 1875	Oct. 11, 1875
441	Wright, F. A., Cincinnati, Ohio. "Dice Croquet"	Oct. 25, 1875	Dec. 14, 1875
454	Yenawine, F. P., Keokuk, Iowa. "Excelsior Dry Hop Yeast"	Dec. 13, 1875	Dec. 21, 1875
280	Yerkes, Jones, Morristown, N. J. "The Celebrated Cooke's Favorite Tomato"	June 2, 1875	July 13, 1875

ALPHABETICAL LIST OF INVENTIONS.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Specification.	Drawing.	Volume.	Page.
A.							
Acid, Apparatus for concentrating and evaporating sulphuric.	M. J. F. R. Fauré and J. L. Kessler.	158,924	Jan. 19, 1875	553	184	7	115
Acid, Apparatus for concentrating sulphuric.	G. A. Hagemann	165,567	July 13, 1875	427	129	8	76
Acid, Apparatus for manufacture of salicylic	W. E. Graf	166,862	Aug. 17, 1875	656	203	8	309
Acid-carrier	F. H. Kalbfleisch	165,590	July 13, 1875	447	135	8	79
Acid from borate of lime, Obtaining boracic	F. Formhals	160,761	Mar. 16, 1875	489	159	7	433
Acid, Machine for making liquid carbonic.	W. N. Hill	163,376	May 18, 1875	629	201	7	852
Acid, Process of producing salicylic	W. E. Graf	166,863	Aug. 17, 1875	656	203	8	309
Adding machine	D. L. R. Butt	170,708	Dec. 7, 1875	50	15	8	957
Addressing-machine	A. Baker	168,079	Sept. 28, 1875	671	213	8	525
Addressing-machine	R. Dick	170,068	Nov. 16, 1875	738	234	8	846
Addressing-machine	R. Dick	170,069	Nov. 16, 1875	740	234 } 235 }	8	846
Addressing-machine	H. S. Herr	163,774	May 25, 1875	995	316	7	908
Addressing-machine	E. Longley	164,925	June 29, 1875	1050	338	7	1106
Addressing-machine	G. H. Stout	167,952	Sept. 21, 1875	529	169	8	498
Addressing-machine	C. W. Van Vleet	162,872	May 4, 1875	123	41	7	763
Adjustable and reversible chair	H. Voth and C. J. Hyatt	163,953	June 1, 1875	95	32	7	944
Adjustable bracket	E. T. Starr	169,382	Nov. 2, 1875	60	18	8	743
Adjustable handle-attaching device	H. P. Hood and G. W. Joseph	165,583	July 13, 1875	441	134	8	78
Adjustable screen-holder	G. A. Blodget	168,710	Oct. 11, 1875	381	124	8	626
Advertising apparatus	T. E. Allison	159,881	Feb. 16, 1875	619	205	7	282
Advertising-card rack	G. Willett	168,039	May 11, 1875	303	97	7	794
Advertising device	C. W. Reed	163,608	May 25, 1875	860	271	7	890
Advertising device, Illuminating	W. A. Lilliendahl	170,444	Nov. 30, 1875	1119	352	8	914
Advertising display-boards, &c., Clasp-hook for	N. O. Wilcox	161,919	Apr. 13, 1875	304	101	7	623
Advertising medium	H. Baldwin	165,147	July 6, 1875	1	1	8	9
Advertising medium	C. H. and H. F. Torsch, jr.	160,971	Mar. 16, 1875	670	219	7	458
Advertising-table	J. M. Plessner	168,284	Sept. 28, 1875	862	275	8	551
Aerated sea-water	J. Matthews	168,269	Sept. 28, 1875	849	275	8	549
Aerating and cooling apparatus	G. W. Baird	159,142	Jan. 26, 1875	774	254	7	152
Aerial and marine gyrator	P. B. Fernandez	161,772	Apr. 6, 1875	156	54	7	591
Aerial vessel	F. E. Schmidt	168,788	Oct. 11, 1875	450	147	8	636
Ageing liquors, Apparatus for	J. B. Baux	171,341	Dec. 21, 1875	671	222	8	1055
Ageing liquors, Method of	J. G. Spier	161,642	Apr. 6, 1875	47	18	7	575
Agricultural boiler	F. N. Mitchell	161,260	Mar. 23, 1875	952	310	7	504
Agricultural boiler	W. A. Swarthout	165,382	July 6, 1875	226	68	8	39
Agricultural implements, Machine for shaping	E. Wansbrough	168,689	Oct. 11, 1875	360	118	8	624
Air and gas engine	G. W. Daimler	168,623	Oct. 11, 1875	303	99 } 100 }	8	615
Air and gas engine	J. Taggart	161,454	Mar. 30, 1875	1147	370	7	537
Air and gas or fluid regulator	B. Bates	167,212	Aug. 31, 1875	1023	318	8	376
Air and steam brake for cars	J. M. Connel	158,912	Jan. 19, 1875	541	180	7	114
Air and water heater	W. H. Richardson	167,120	Aug. 24, 1875	917	286	8	354
Air and water trap	N. Middleton	161,257	Mar. 23, 1875	948	309	7	503
Air, Apparatus for devaporizing	L. K. Fuller	169,535	Nov. 2, 1875	189	65	8	761
Air-brake	W. D. Jones	166,386	Aug. 3, 1875	188	56	8	225
Air-brake	H. L. Perrine	166,404	Aug. 3, 1875	205	61, 62	8	227
Air-brake	H. L. Perrine	166,405	Aug. 3, 1875	207	62	8	228
Air-brake	H. L. Perrine	166,406	Aug. 3, 1875	208	62, 63	8	228
Air-brake and car-starter	H. Moschcowitz	166,026	July 27, 1875	889	275	8	167
Air-brake, Automatic	S. B. Ladd	165,337	July 6, 1875	175	54	8	33
Air-brake, Double-acting	H. L. Perrine	169,575	Nov. 2, 1875	235	77	8	766
Air-brake for cars, Automatic	A. James	165,235	July 6, 1875	84	25, 26	8	20
Air-brakes, Automatic air-escape for railway	W. J. Ford, G. Westinghouse, jr., and T. W. Welsh.	162,465	Apr. 27, 1875	839	270	7	700
Air-compressing apparatus	H. J. Bailey	161,090	Mar. 23, 1875	788	259	7	482
Air-compressor for working engines, Atmospheric	C. Carobbi and G. Bellini	159,075	Jan. 26, 1875	715	236 } 237 }	7	144
Air-compressors, Relief-apparatus for	G. H. Reynolds	160,956	Mar. 16, 1875	658	215	7	456
Air cooling and purifying apparatus	E. E. Page	158,599	Jan. 12, 1875	236	80	7	57
Air-cooling apparatus	F. A. Hyatt	161,515	Mar. 30, 1875	1212	389	7	545
Air-engine	A. K. Rider	167,568	Sept. 7, 1875	165	52	8	429
Air exhausting and propelling apparatus	C. James	162,824	May 4, 1875	80	26, 27	7	757
Air hand-engine	C. W. Riley	165,027	June 29, 1875	1135	366	7	1117
Air-heater and boiler combined	T. H. Harrington	169,167	Oct. 26, 1875	831	270	8	705
Air heating and ventilating furnace	S. W. Kimble	163,786	May 25, 1875	1006	319	7	910
Air-heating furnace	S. W. Davenport	163,978	June 1, 1875	115	39	7	947
Air-heating furnace	J. M. Wilson	166,325	Aug. 3, 1875	127	40	8	217
Air, Means of transmitting from a stationary engine by compressed.	T. H. Neal	162,678	Apr. 27, 1875	1032	329	7	730
Air purifying, drying, and cooling, &c., apparatus	A. S. Lyman	168,654	Oct. 11, 1875	334	109	8	620
Air-register	G. Lawrence	160,688	Mar. 9, 1875	397	133	7	414
Air-ship, Steerable	F. W. Schroeder	165,881	July 20, 1875	738	226	8	134
Air-tight can	S. Joyce	165,003	June 29, 1875	1115	360	7	1114
Air-vacuum engine	A. K. Rider	158,525	Jan. 5, 1875	153	52	7	30
Alarm:							
See Burglar-alarm.	Letter-box alarm.						
Conductor's alarm.	Locomotive cattle-alarm.						
Fire-alarm.	Prison-alarm.						
Grist-alarm.							
Alarm and fire-extinguisher	S. Sanderson	162,579	Apr. 27, 1875	937	301	7	718

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Alarm-lock	L. Griswold	167, 167	Aug. 31, 1875	987	307	8	371
Alarm-lock	J. Walton	159, 129	Jan. 26, 1875	763	251	7	151
Album	F. F. Kullrich	163, 212	May 11, 1875	458	148	7	814
Album, Photograph	J. C. Arms	164, 249	June 8, 1875	357	131	7	994
Album, Photograph	C. D. Mosher	169, 186	Oct. 26, 1875	845	276	8	707
Album, Photographic	H. T. Anthony	170, 042	Nov. 16, 1875	710	225	8	843
Ale and beer in casks, Apparatus for aerating	M. Lajoie and M. Poncelet	158, 503	Jan. 5, 1875	137	45	7	28
Alkali, Composition for coating blocks of caustic	T. C. Taylor	164, 405	June 15, 1875	551	.....	7	1024
Alloy, Bell-metal	H. L. Macker	169, 648	Nov. 9, 1875	328	.....	8	785
Alloy for preventing incrustation upon metals	O. Holden	169, 810	Nov. 9, 1875	493	.....	8	806
Alphabet-exhibitor	B. B. Whaley	167, 812	Sept. 14, 1875	402	129	8	471
Amalgamator	C. H. Aaron	167, 486	Sept. 7, 1875	91	28	8	419
Amalgamator	J. W. Bancroft and T. Walker	170, 329	Nov. 23, 1875	1001	314	8	890
Amalgamator	W. H. Carson	163, 847	June 1, 1875	10	3	7	932
Amalgamator	E. J. Fraser	158, 368	Jan. 5, 1875	16	6	7	11
Amalgamator	E. J. Fraser	166, 356	Aug. 3, 1875	155	48	8	221
Amalgamator	L. Hinckley	159, 759	Feb. 16, 1875	505	169	7	267
Amalgamator	J. Rutherford	161, 160	Mar. 23, 1875	853	278	7	491
Ammonia, Process of manufacturing	F. Maxwell-Lyte	161, 137	Mar. 23, 1875	835	.....	7	488
Anatomical specimens, Jar for	J. M. Maris	160, 926	Mar. 16, 1875	631	205	7	452
Anchor	W. A. Currier	164, 975	June 29, 1875	1092	352	7	1111
Anchor	A. Smith	165, 036	June 29, 1875	1142	369	7	1118
Anchor	T. J. Whitecar	169, 069	Oct. 19, 1875	719	237	8	682
Anchor	J. S. Williams	164, 065	June 1, 1875	198	71	7	957
Anchor-tripper	E. G. Gaillac	167, 093	Aug. 24, 1875	895	279	8	351
Anchor-tripper	E. Robbins	169, 194	Oct. 26, 1875	850	277	8	708
Animal-gag	A. Kurus	158, 502	Jan. 5, 1875	136	45	7	28
Animal hose, Method of preparing	E. Bauer	169, 076	Oct. 26, 1875	744	.....	8	603
Animal-power	W. P. Emmert	170, 944	Dec. 14, 1875	275	92	8	994
Animal-trap	H. H. C. Arnold	165, 526	July 13, 1875	390	116	8	70
Animal-trap	T. Belknap	169, 896	Nov. 16, 1875	581	180	8	825
Animal-trap	G. W. Brown	161, 859	Apr. 13, 1875	246	82	7	616
Animal-trap	H. C. Burk	158, 778	Jan. 19, 1875	413	138 139	7	97
Animal-trap	L. F. George	159, 175	Jan. 26, 1875	803	263	7	156
Animal-trap	G. W. Kelly	163, 594	May 25, 1875	846	267	7	888
Animal-trap	I. V. Newson	160, 115	Feb. 23, 1875	848	219	7	321
Animal-trap	E. Oliver	166, 802	Aug. 17, 1875	602	186	8	301
Animal-trap	W. A. Shigley	168, 792	Oct. 11, 1875	454	148	8	637
Animal-trap	J. M. Wilkinson	165, 643	July 13, 1875	501	153	8	86
Animal-trap, Self-setting	P. B. Gibbs and J. C. Brown	166, 927	Aug. 24, 1875	730	226	8	328
Animal-trap, Self-setting	J. C. Porter	165, 023	June 29, 1875	1131	365	7	1116
Animals, Bog-boot for	W. Jacobs	164, 174	June 8, 1875	319	108	7	985
Animals in giving birth, Instrument for aiding	W. Dulin	170, 827	Dec. 7, 1875	155	52	8	971
Animals, Sling for shoeing	L. M. Johnson	163, 378	May 18, 1875	630	202	7	853
Annealing-box	C. H. Onions	168, 408	Oct. 5, 1875	81	28	8	576
Annealing building-blocks of furnace-slag, Oven for	R. Boyer	161, 380	Mar. 30, 1875	1082	350	7	528
Annealing-furnace	W. S. McKenna	168, 513	Oct. 5, 1875	176	57	8	529
Annealing furnace slag castings	F. A. Luckenbach	162, 932	May 4, 1875	180	59	7	771
Annealing metals	J. H. Warrington	169, 320	Oct. 26, 1875	973	315	8	724
Annealing-wire	N. F. English	164, 080	June 8, 1875	236	82	7	974
Annunciator	T. H. Aurocker	162, 756	May 4, 1875	1	1	7	747
Annunciator, Electric	S. H. Beckwith	168, 364	Oct. 5, 1875	41	15	8	570
Annunciator, Electric	F. S. Carter and C. B. Hewitt	159, 901	Feb. 16, 1875	639	212	7	285
Annunciator, Electric	E. Gray	162, 057	Apr. 13, 1875	416	139	7	638
Ant-destroying apparatus	F. A. Fenner and J. H. Power	166, 267	Aug. 3, 1875	76	23	8	210
Ant-destroying apparatus	W. Grafton	166, 093	July 27, 1875	955	294	8	176
Ant-exterminator	M. Barthel	170, 505	Nov. 30, 1875	1176	371	8	922
Anti-friction compound	C. C. F. Otto	169, 031	Oct. 19, 1875	684	.....	8	677
Anti-friction roller	E. Gerry	159, 754	Feb. 16, 1875	502	168	7	267
Anti-incrustation compound	A. Chavasse	171, 599	Dec. 28, 1875	929	.....	8	1098
Anti-incrustation compound	L. N. Lye	171, 297	Dec. 21, 1875	635	.....	8	1050
Anti-incrustation compound	E. Weiss	170, 137	Nov. 16, 1875	802	.....	8	855
Antiseptic composition	H. Gahn	169, 094	Oct. 26, 1875	767	.....	8	696
Anvil	E. Hodgdon	165, 732	July 20, 1875	591	181	8	114
Anvils, Casting steel-faced	J. Donovan	160, 816	Mar. 16, 1875	539	175	7	440
Apparel clasp, Wearing	E. Osgood	169, 285	Oct. 26, 1875	937	304	8	730
Apparel fastening, Wearing	R. C. Nichols	164, 200	June 8, 1875	338	116	7	988
Apple corer and slicer	C. E. Kimball	166, 013	July 27, 1875	878	270	8	165
Apple corer and slicer	H. W. Little	170, 574	Nov. 30, 1875	1233	390 391	8	931
Apple-slicer	I. C. Richards	170, 017	Nov. 16, 1875	690	217	8	840
Apple slicer and corer	H. H. Siler and T. A. Brooks	161, 359	Mar. 30, 1875	1058	344	7	525
Aquarium	J. Wenmackers	165, 659	July 13, 1875	497	152	8	86
Aquarium, bird-cage, and flower-stand, Combined	J. Chase	164, 074	June 8, 1875	230	80	7	973
Arbor, Elastic	B. Bannister	162, 010	Apr. 13, 1875	375	126	7	632
Arm-chairs, Attaching book-supports to	F. P. Musser	171, 528	Dec. 28, 1875	864	283	8	1089
Arm-fracture apparatus	D. Bissell	158, 893	Jan. 19, 1875	519	174	7	111
Artist's shading-stump	L. F. Bruce	168, 316	Oct. 5, 1875	2	1	8	565
Ash-can receptacle	L. F. Winter	161, 316	Mar. 23, 1875	1005	327	7	510
Ash-chute	J. P. Schweikert	166, 637	Aug. 10, 1875	432	134	8	268
Ash-pan	J. M. McHelm	168, 168	Sept. 28, 1875	762	241	8	537
Asparagus bunching and sizing machine	J. A. Ireland	164, 091	June 8, 1875	245	84	7	975
Asphaltum to a liquid, Process of reducing	A. K. Lee	162, 394	Apr. 20, 1875	750	.....	7	686
Atomizer	C. Reinhold	159, 278	Feb. 2, 1875	32	12	7	189
Atomizer	H. R. Spencer	171, 637	Dec. 28, 1875	981	317	8	1105
Atomizer	C. Weed	160, 802	Mar. 16, 1875	519	171	7	438
Auger	S. W. Higgins	166, 378	Aug. 3, 1875	180	54	8	224
Auger	T. D. Parsons	166, 221	Aug. 3, 1875	34	11	8	204
Auger	W. Wells	162, 874	May 4, 1875	125	41	7	763
Auger and auger bit	W. Tucker	163, 282	May 11, 1875	525	170	7	823
Auger, Core	O. W. Townsend	171, 194	Dec. 14, 1875	513	169	8	1026
Auger, Earth	D. J. Arnold	161, 374	Mar. 30, 1875	1076	349	7	577
Auger, Earth	C. A. Brackett	167, 061	Aug. 24, 1875	862	268	8	346
Auger, Earth	F. J. Clarke	160, 648	Mar. 9, 1875	361	122	7	469
Auger, Earth	W. E. Coman	168, 454	Oct. 5, 1875	118	41	8	582

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Auger, Earth.....	H. Cull	163, 159	May 11, 1875	411	134	7	808
Auger, Earth.....	J. R. Davis and J. R. Mills	158, 919	Jan. 19, 1875	548	182	7	114
Auger, Earth.....	J. E. Hall	165, 998	July 27, 1875	865	266	8	163
Auger, Earth.....	A. M. Hanna	162, 816	May 4, 1875	73	24	7	757
Auger, Earth.....	S. H. Horn	164, 086	June 8, 1875	241	83	7	975
Auger, Earth.....	W. W. Jilz	162, 825	May 4, 1875	81	27	7	757
Auger, Earth.....	J. T. Kemper	164, 460	June 15, 1875	603	195	7	1031
Auger, Earth.....	W. Low	167, 456	Sept. 7, 1875	68	21	8	416
Auger, Earth.....	J. Minich	169, 115	Oct. 26, 1875	788	255	8	6 8
Auger, Earth.....	D. L. Newcomb	167, 353	Aug. 31, 1875	1143	360	8	393
Auger, Earth.....	O. Rust	166, 303	Aug. 3, 1875	107	34	8	214
Auger, Earth.....	G. S. Strong	162, 966	May 4, 1875	217	70	7	775
Auger, Earth.....	J. P. Summers	165, 376	July 6, 1875	215	65	8	38
Auger, Earth.....	J. P. Summers	167, 628	Sept. 14, 1875	233	72	8	446
Auger, Earth.....	G. Taylor	165, 890	July 20, 1875	747	229	8	135
Auger, Earth.....	M. and T. R. Way	170, 790	Dec. 7, 1875	122	40	8	967
Auger, Earth.....	E. Whitney	160, 632	Mar. 9, 1875	346	117	7	408
Auger-handle	J. Swan	170, 413	Nov. 23, 1875	1076	339	8	900
Auger-handle	F. Wertz	165, 522	July 13, 1875	386	115	8	69
Auger, Hollow	A. A. Wood	166, 673	Aug. 10, 1875	464	142	8	272
Auger, Hollow	A. A. Wood	166, 674	Aug. 10, 1875	465	143	8	212
Auger, Well	F. A. Montgomery	170, 445	Nov. 30, 1875	1120	353	8	914
Automatic gate	L. N. Allendorf	165, 653	July 20, 1875	523	159	8	105
Automatic gate	H. N. Burnham	159, 641	Feb. 9, 1875	373	124	7	214
Automatic gate	O. P. Clinton	165, 475	July 13, 1875	347	102	8	63
Automatic gate	H. L. Ferris and C. Lewis	166, 866	Aug. 17, 1875	659	204	8	310
Automatic gate	C. E. Gillespie	162, 283	Apr. 20, 1875	640	209	7	673
Automatic gate	H. Hammond	164, 831	June 22, 1875	943	305	7	1085
Automatic gate	R. A. Horning	164, 373	June 15, 1875	519	171	7	1020
Automatic gate	K. G. Knuteson	165, 449	July 13, 1875	320	94	8	59
Automatic gate	H. Krom	163, 084	May 11, 1875	340	111	7	799
Automatic gate	N. H. Long	168, 509	Oct. 5, 1875	172	55	8	589
Automatic gate	W. W. McKay	167, 003	Aug. 24, 1875	808	251	8	339
Automatic gate	R. S. Rinker	170, 899	Dec. 7, 1875	214	74	8	979
Automatic gate	L. E. Thorson	167, 954	Sept. 21, 1875	531	170	8	498
Awl, needle, &c., bending machine	C. S. Mann and W. Y. A. Boardman	160, 533	Mar. 9, 1875	262	89	7	395
Awl, Shoemaker's	S. A. Smith	161, 562	Mar. 30, 1875	1256	404	7	551
Awning	J. Eller	162, 361	Apr. 20, 1875	715	233	7	682
Awning	A. Inghels	168, 257	Sept. 28, 1875	838	268	8	548
Awning	F. C. Lussenhop	166, 618	Aug. 10, 1875	414	128	8	266
Awning	C. J. Trumper	160, 973	Mar. 16, 1875	672	219	7	458
Awning, Blind	J. David	168, 236	Sept. 28, 1875	818	260	8	545
Awning-hook	Z. M. Lane	159, 586	Feb. 9, 1875	334	110	7	238
Awning, Horse	F. D. Webster	162, 982	May 4, 1875	231	74	7	777
Awning, Window	A. W. Redgrave	161, 274	Mar. 23, 1875	965	315	7	505
Awnings, Wooden frame for hinged	H. Sykes	167, 709	Sept. 14, 1875	302	96	8	456
Axle:							
See Car-axle. Metal axle.							
Carriage-axle. Vehicle-axle.							
Cultivator-axle. Wagon-axle							
Axle	E. H. Wheeler	162, 729	Apr. 27, 1875	1088	345	7	737
Axle bearing, Car	H. L. Sidman	158, 535	Jan. 5, 1875	161	55	7	31
Axle-box	F. Keiser	163, 783	May 25, 1875	1004	318	7	909
Axle box and sleeve	J. B. Winchell	159, 240	Jan. 26, 1875	866	282	7	165
Axle-box bearing, Car	T. D. Rulon	166, 414	Aug. 3, 1875	217	65	8	229
Axle box, Car	K. S. Austin	161, 922	Apr. 13, 1875	307	102	7	623
Axle box, Car	L. Brauer	170, 338	Nov. 23, 1875	1007	316	8	891
Axle box, Car	R. Brower	162, 615	Apr. 27, 1875	966	310	7	722
Axle box, Car	T. H. Burrbridge	158, 358	Jan. 5, 1875	7	3	7	10
Axle box, Car	J. Eccles	169, 792	Nov. 9, 1875	579	151	8	805
Axle box, Car	L. R. Faught	169, 975	Nov. 16, 1875	653	204	8	835
Axle box, Car	J. P. Garton	162, 051	Apr. 13, 1875	411	138	7	637
Axle box, Car	C. A. Hussey	159, 824	Feb. 16, 1875	565	188	7	275
Axle box, Car	J. D. Imboden	162, 073	Apr. 13, 1875	429	143	7	639
Axle box, Car	J. Rhoads	162, 950	May 4, 1875	198	65	7	773
Axle box, Car	G. T. Roul	163, 409	May 18, 1875	658	210	7	856
Axle box, Car	J. N. Smith	161, 070	Mar. 23, 1875	765	253	7	480
Axle box, Car	B. K. Verbryck and T. Newberry	159, 622	Feb. 9, 1875	359	119	7	242
Axle box, Car	G. Williams	169, 664	Nov. 9, 1875	343	108	8	7 8
Axle box, Carriage	H. Hammond	161, 955	Apr. 13, 1875	332	112	7	637
Axle box lubricator, Car	J. Sidebotham	171, 182	Dec. 14, 1875	498	165	8	1024
Axle-box, Railway	J. N. Smith	161, 069	Mar. 23, 1875	763	251	7	480
Axle box, Railway-car	J. M. Brosius	159, 386	Feb. 2, 1875	123	45	7	202
Axle-box washer, Car	C. H. Brown	170, 811	Dec. 7, 1875	141	47	8	969
Axle boxes, Device for lubricating and preventing the heating of car.	E. A. Warren	163, 285	May 11, 1875	529	171	7	824
Axle boxes, Manufacture of carriage	W. W. Knowles	164, 187	June 8, 1875	329	112	7	986
Axle boxes, Packing-ring for car	T. C. Hargrave	170, 084	Nov. 16, 1875	755	239	8	848
Axle-clip tie and loop	E. D. Clapp and F. Van Patten	168, 320	Oct. 5, 1875	6	2	8	565
Axle-clip tie, Carriage	E. D. Clapp and F. Van Patten	168, 321	Oct. 5, 1875	6	2	8	565
Axle-lubricator	C. C. Parker and J. Kivett	159, 607	Feb. 9, 1875	349	116	7	241
Axle lubricator, Car	J. S. Eggleston	161, 017	Mar. 23, 1875	717	237	7	474
Axle lubricator, Car	C. D. Flynt	166, 600	Aug. 10, 1875	399	123	8	264
Axle lubricator, Car	J. D. Stark	169, 26	Oct. 26, 1875	858	279	8	709
Axle lubricator, Carriage	J. M. Witmer	162, 20	Apr. 20, 1875	574	188	7	665
Axle lubricator, Vehicle	J. S. Eggleston	161, 016	Mar. 23, 1875	716	236	7	474
Axle lubricator, Vehicle	A. Schirek	166, 898	Aug. 17, 1875	692	214	8	314
Axle-protector	C. G. Cowell	165, 213	July 6, 1875	70	20	8	18
Axle-skein	J. A. Ellis	161, 603	Apr. 6, 1875	13	5	7	570
Axle-skein	J. D. Smith	166, 420	Aug. 3, 1875	222	67	8	230
Axle skein, Vehicle	B. Snyder	160, 964	Mar. 16, 1875	664	217	7	457
Axle skein, Wagon	R. I. Azbill	162, 005	Apr. 13, 1875	372	125	7	632

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Axle-turning machine.....	C. A. Brand.....	162, 893	May 4, 1875	142	46	7	765
Axle washer, Car.....	W. H. Fitz Gerald.....	170, 838	Dec. 7, 1875	163	55	8	972
B.							
Baby-jumper.....	D. F. Burgess.....	159, 639	Feb. 9, 1875	372	124	7	244
Baby-jumper.....	R. W. Caldwell.....	166, 845	Aug. 17, 1875	636	198	8	307
Baby-tender.....	E. Post.....	158, 977	Jan. 19, 1875	691	200	7	122
Baby tender and crib, Combined.....	A. Baird.....	163, 625	May 25, 1875	874	275	7	892
Baby-walker.....	I. D. Clark.....	162, 153	Apr. 20, 1875	521	172	7	658
Baby-walker.....	J. Garcia.....	170, 544	Nov. 30, 1875	1213	381	8	927
Baby-walker.....	M. R. Nickerson and N. M. Tripp.....	167, 683	Sept. 14, 1875	219	88	8	453
Baby-walker.....	L. Tommasi.....	159, 720	Feb. 9, 1875	451	151	7	255
Backlash of machinery, Device for preventing.....	J. A. Hafner.....	168, 481	Oct. 5, 1875	145	48	8	586
Bag:							
See Broom-bag.	Paper bag.						
Cloth bag.	Rubber-coated bag.						
Feed-bag.	Traveling-bag.						
Mail-bag.							
Bag-fastener.....	J. A. Danielson.....	161, 209	Mar. 23, 1875	892	293	7	497
Bag-fastener.....	C. W. Harvey.....	160, 591	Mar. 9, 1875	312	106	7	402
Bag-fastener.....	J. Macphail.....	158, 722	Jan. 12, 1875	344	117	7	72
Bag-fastener.....	A. M. Miller.....	160, 453	Mar. 2, 1875	178	61	7	374
Bag-holder.....	J. A. Budlong.....	161, 589	Apr. 6, 1875	3	1	7	569
Bag-holder.....	L. Crofoot.....	160, 396	Mar. 2, 1875	121	44	7	366
Bag-holder.....	D. and C. Garver.....	161, 591	Mar. 30, 1875	1200	385	7	543
Bag-holder.....	J. James.....	165, 586	July 13, 1875	444	134	8	78
Bag-holder.....	U. E. Lemon.....	158, 849	Jan. 19, 1875	479	160	7	106
Bag-holder.....	M. Olson.....	161, 435	Mar. 30, 1875	1131	364	7	534
Bag, &c., lock.....	G. Bernheim.....	163, 629	May 25, 1875	878	277	7	893
Bag-lock.....	F. W. Mix.....	164, 752	June 22, 1875	869	283	7	1076
Bag-locks, Catch-plate for.....	W. Roemer.....	164, 939	June 29, 1875	1064	343	7	1107
Bag or box fastening.....	C. Fogelberg.....	159, 311	Feb. 2, 1875	59	22	7	193
Bag-tie.....	J. O. Milne.....	159, 698	Feb. 9, 1875	431	144	7	252
Bagasse, Condensing saturator for.....	A. W. J. Mason.....	170, 180	Nov. 23, 1875	869	271	8	871
Baggage-seal.....	J. S. Crary.....	170, 822	Dec. 7, 1875	151	50	8	971
Bait receptacle, Live.....	R. B. Kepner.....	163, 498	May 18, 1875	743	236	7	867
Bake-pan.....	A. Brightman.....	162, 617	Apr. 27, 1875	968	311	7	722
Baker and roaster.....	W. Wachs.....	171, 200	Dec. 14, 1875	524	173	8	1027
Baking-pan.....	L. A. Fristoe.....	168, 689	Sept. 28, 1875	683	216	8	526
Baking-stand.....	J. A. Watson.....	165, 899	July 20, 1875	756	231	8	137
Bale band stretcher.....	J. B. Stocker.....	170, 411	Nov. 23, 1875	1074	339	8	899
Bale-band tightener.....	D. E. McGarrah.....	162, 672	Apr. 27, 1875	1021	327	7	729
Bale-band tightener.....	J. L. Sheppard.....	165, 374	July 6, 1875	213	64	8	38
Bale-band tightener, Cotton.....	S. H. Gilman.....	171, 560	Dec. 28, 1875	892	291	8	1093
Bale-band-tightening device.....	C. H. Chase.....	170, 054	Nov. 16, 1875	722	229	8	845
Bale-hooks, Tool for bending.....	B. R. Springsteen.....	170, 026	Nov. 16, 1875	696	219	8	841
Bale-rolling attachment for compressors, Automatic.....	H. Riesel.....	167, 939	Sept. 21, 1875	518	166	8	496
Bale tie.....	J. M. Albertson.....	166, 677	Aug. 17, 1875	487	149	8	285
Bale-tie.....	J. B. Arrants.....	159, 060	Jan. 26, 1875	702	231	7	142
Bale-tie.....	J. B. Arrants.....	163, 133	May 11, 1875	384	124	7	805
Bale-tie.....	C. J. Beasley.....	163, 138	May 11, 1875	389	126	7	805
Bale-tie.....	M. T. Brown.....	162, 023	Apr. 13, 1875	385	129	7	634
Bale-tie.....	E. D. Chaddick.....	164, 142	June 8, 1875	288	98	7	981
Bale-tie.....	C. H. Chase.....	169, 521	Nov. 2, 1875	178	59	8	759
Bale-tie.....	M. D. Copeland.....	158, 683	Jan. 12, 1875	310	105	7	67
Bale-tie.....	P. R. Dawson.....	165, 407	July 13, 1875	277	82	8	53
Bale-tie.....	P. K. Dederick.....	171, 215	Dec. 21, 1875	561	184	8	1040
Bale-tie.....	J. W. Deyo.....	162, 354	Apr. 20, 1875	707	230	7	681
Bale-tie.....	S. N. Drake.....	169, 789	Nov. 9, 1875	476	150	8	834
Bale-tie.....	H. K. Du Bose and E. W. Charles, jr.....	164, 817	June 22, 1875	931	301	7	1083
Bale-tie.....	A. Eichholz.....	164, 821	June 22, 1875	934	302	7	1084
Bale-tie.....	W. P. Elliott.....	165, 081	June 20, 1875	1183	380	7	1124
Bale-tie.....	H. Estes.....	166, 085	July 27, 1875	945	292	8	175
Bale-tie.....	E. Flinn and R. G. Wier.....	158, 836	Jan. 19, 1875	468	157	7	104
Bale-tie.....	S. H. Gilman.....	159, 258	Feb. 2, 1875	16	5	7	187
Bale-tie.....	A. A. Goldsmith.....	159, 089	Jan. 26, 1875	727	241	7	146
Bale-tie.....	A. A. Goldsmith.....	159, 815	Feb. 16, 1875	559	186	7	274
Bale-tie.....	J. M. Goldsmith.....	162, 054	Apr. 13, 1875	414	138	7	637
Bale-tie.....	J. M. Goldsmith.....	163, 649	May 25, 1875	895	283	7	895
Bale-tie.....	J. M. Goldsmith.....	164, 164	June 8, 1875	311	105	7	984
Bale-tie.....	J. M. Goldsmith.....	164, 165	June 8, 1875	311	106	7	984
Bale-tie.....	J. H. Hardman.....	161, 409	Mar. 30, 1875	1108	359	7	532
Bale-tie.....	J. H. Hardman.....	164, 835	June 22, 1875	947	306	7	1085
Bale-tie.....	J. J. Holloman.....	162, 654	Apr. 27, 1875	1001	321	7	726
Bale-tie.....	H. B. Jones.....	161, 416	Mar. 30, 1875	1115	360	7	532
Bale-tie.....	H. B. Jones.....	166, 614	Aug. 10, 1875	410	126	8	265
Bale-tie.....	W. A. Jordan.....	160, 331	Mar. 2, 1875	67	24	7	358
Bale-tie.....	W. A. Jordan.....	163, 380	May 18, 1875	632	203	7	853
Bale-tie.....	O. R. McClean.....	162, 844	May 4, 1875	98	32	7	700
Bale-tie.....	R. Montfort.....	171, 302	Dec. 21, 1875	639	209	8	1030
Bale-tie.....	T. H. Murphy.....	168, 518	Oct. 5, 1875	180	58	8	390
Bale-tie.....	A. J. Nellis.....	159, 704	Feb. 9, 1875	437	146	7	253
Bale-tie.....	G. N. Osgood.....	160, 345	Mar. 2, 1875	79	28	7	360
Bale-tie.....	J. W. Philp.....	158, 733	Jan. 12, 1875	352	120	7	73
Bale-tie.....	J. W. Philp.....	161, 819	Apr. 6, 1875	203	68	7	598
Bale-tie.....	J. W. Philp.....	163, 522	May 18, 1875	768	243	7	870
Bale-tie.....	A. N. Powell.....	170, 589	Nov. 30, 1875	1259	396	8	933
Bale-tie.....	J. P. Radley.....	169, 920	Nov. 16, 1875	610	189	8	820
Bale-tie.....	J. L. Reese.....	159, 449	Feb. 2, 1875	188	63	7	211
Bale-tie.....	W. L. Rose.....	163, 331	May 18, 1875	591	189	7	848

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Bale-tie	E. O. Schartan and J. H. Gardner	170,597	Nov. 30, 1875	1267	399	8	934
Bale-tie	G. W. Scott	162,699	Apr. 27, 1875	1054	336	7	733
Bale-tie	I. T. Smith	159,463	Feb. 2, 1875	209	68	7	213
Bale-tie	J. N. Smith	163,815	May 25, 1875	1032	327	7	913
Bale-tie	R. Stewart	169,493	Nov. 2, 1875	153	50	8	756
Bale-tie	A. A. Szabo	166,652	Aug. 10, 1875	444	137	8	270
Bale-tie	R. Terrell	161,044	Mar. 23, 1875	770	254	7	480
Bale-tie	R. Terrell	161,177	Mar. 23, 1875	867	283	7	493
Bale-tie	R. Terrell	161,178	Mar. 23, 1875	867	284	7	493
Bale-tie	W. H. Walker	167,960	Sept. 21, 1875	535	171	8	499
Bale-tie	H. J. Wright	166,326	Aug. 3, 1875	128	40	8	217
Bale-tie and hoop-lacer	L. I. Bodenhamer	170,932	Dec. 14, 1875	263	87	8	993
Bale-tie clamp	H. Z. Young	166,491	Aug. 10, 1875	308	92	8	250
Bale tie, Cotton	H. B. Jones	159,268	Feb. 2, 1875	25	8	7	188
Bale tie, Cotton	J. W. Philp	163,803	May 25, 1875	1022	324	7	912
Bale tie, Cotton	J. Thayer	159,531	Feb. 9, 1875	293	95	7	232
Bale-tie, Hook	W. Greet	165,996	July 27, 1875	864	266	8	163
Bale-tie-painting machine	A. J. Nellis	159,703	Feb. 9, 1875	436	146	7	253
Bales, Method of fastening cotton	A. Baldwin	159,378	Feb. 2, 1875	122	43	7	201
Baling cotton, Device for	W. Iler	159,098	Jan. 26, 1875	737	243	7	147
Baling cotton, Device for	T. H. Murphy	170,446	Nov. 30, 1875	1121	353	8	914
Baling hay, cotton, &c	J. M. Seymour	166,640	Aug. 10, 1875	435	134	8	268
Baling-press	J. M. Albertson	162,786	May 4, 1875	48	15	7	753
Baling-press	C. C. Campbell	168,969	Oct. 19, 1875	626	207	8	669
Baling-press	P. K. Dederick	161,766	Apr. 6, 1875	151	52	7	590
Baling-press	P. K. Dederick	170,997	Dec. 14, 1875	328	109	8	1001
Baling-press	P. K. Dederick	170,998	Dec. 14, 1875	329	109	8	1001
Baling-press	P. K. Dederick	170,999	Dec. 14, 1875	331	110	8	1001
Baling-press	D. L. O'Conner	167,268	Aug. 31, 1875	1070	333	8	383
Baling-press	H. L. Pike	165,252	July 6, 1875	101	30	8	22
Baling-press	J. C. Stokes	164,779	June 22, 1875	891	290	7	1079
Baling press, Cotton	E. L. Morse	161,812	Apr. 6, 1875	193	65	7	596
Baling press, Cotton, hay, &c	C. B. Churchill	168,557	Oct. 11, 1875	239	79	8	606
Baling short-cut hay	C. Brown	169,518	Nov. 2, 1875	176	59	8	759
Ball:							
See Base-ball. Toy ball.							
Ball-and-socket joint	E. T. Starr	169,383	Nov. 2, 1875	61	18	8	743
Ball-and-socket joint fastening	W. F. Tallman and J. H. Mandeville	159,471	Feb. 2, 1875	218	70	7	214
Balloons, Car or boat attachment for	J. Hartness	168,486	Oct. 5, 1875	149	49	8	586
Ballot-box	F. W. Brooks	159,890	Feb. 16, 1875	629	208	7	283
Balusters	P. J. Hardy	163,993	June 1, 1875	129	45	7	948
Band-comb	A. Poppenhusen	169,578	Nov. 2, 1875	238	78	8	766
Band-comb	H. A. Prouty	162,686	Apr. 27, 1875	1039	331	7	731
Band-fastener	E. Dresser	165,079	June 29, 1875	1181	380	7	1124
Bands used in driving machinery, Regulating and adjusting.	C. Anderson	164,411	June 15, 1875	558	181	7	1025
Bandage-winder	A. M. Cone	158,680	Jan. 12, 1875	308	105	7	67
Bank-check	C. V. Mead	159,833	Feb. 16, 1875	573	191	7	276
Bank-checks, &c	I. P. Turner	164,614	June 15, 1875	730	238	7	1049
Bank-notes, &c., Needle-board for registering	J. D. Smith	163,271	May 11, 1875	514	167	7	821
Bar:							
See Claw-bar. Metal bar.							
Grate-bar. Mosquito-bar.							
Harvester finger-bar. Pinch-bar.							
Heddle-frame bar. Railway pinch-bar.							
Horseshoe-bar. Shawl-strap bar.							
Horseshoe-blank bar. Sky-light bar.							
Horseshoe-nail-blank bar. Vehicle side bar.							
bar. Wrench-bar.							
Bars, Machine for drawing and polishing	D. J. Farmer	168,975	Oct. 19, 1875	630	209	8	670
Bars, tubes, cylinders, &c., Machine for cutting off	J. Reese	159,448	Feb. 2, 1875	187	63	7	211
Barber's chair	W. Hoehn	165,232	July 6, 1875	83	25	8	20
Barber's chair	J. Ott	165,498	July 13, 1875	365	108	8	66
Barber's shears	S. Nickelson	169,832	Nov. 9, 1875	515	161	8	809
Barley-fork	S. Snell	169,574	Nov. 2, 1875	256	83	8	769
Barley mill, Pearl	H. S. Northup	170,638	Nov. 30, 1875	1304	412	8	939
Barrel	G. W. Banker	159,064	Jan. 26, 1875	705	232	7	143
Barrel	R. W. Baylor	158,777	Jan. 19, 1875	412	138	7	97
Barrel	H. M. Fitzhugh	160,664	Mar. 9, 1875	376	127	7	412
Barrel	H. M. Fitzhugh	160,665	Mar. 9, 1875	376	127	7	412
Barrel	L. W. Flye and C. H. Watson	170,162	Nov. 23, 1875	852	266	8	869
Barrel	J. H. Morrison	163,512	May 18, 1875	756	240	7	869
Barrel	L. E. Sunderland	170,914	Dec. 7, 1875	228	78	8	981
Barrel	D. Wright	171,077	Dec. 14, 1875	399	132	8	1011
Barrel and keg head	E. Foote	169,350	Nov. 2, 1875	26	8	8	738
Barrel-barrow	J. H. Brown	160,810	Mar. 16, 1875	535	173	7	439
Barrel, Berry	C. C. Paul	169,657	Nov. 9, 1875	335	106	8	787
Barrel chamfering and crozing machine	J. Greenwood	167,166	Aug. 31, 1875	985	306	8	371
Barrel-compressing machine	E. J. Granger	165,163	July 6, 1875	14	5	8	11
Barrel-crozing machine	S. S. Steel and S. Munson	160,966	Mar. 16, 1875	666	217	7	457
Barrel-head	H. M. Smith	165,766	July 20, 1875	621	191	8	119
Barrel-head adjuster	E. J. Granger and H. S. Smith	162,230	Apr. 20, 1875	594	195	7	667
Barrel-head-cutting machine	O. Osten	159,114	Jan. 26, 1875	752	247	7	149
Barrel-head-making machine	W. W. Trevor	166,041	July 27, 1875	902	278	8	169
Barrel-head-sawing machine	E. and B. Holmes	166,873	Aug. 17, 1875	666	207	8	311
Barrel-headings, Baling	J. Kepple	171,229	Dec. 21, 1875	573	188	8	1042
Barrel-heater, Cooper's	W. N. Moore	171,489	Dec. 28, 1875	825	271	8	1084
Barrel-hoop	B. W. Sutherland	163,543	May 18, 1875	785	249	7	873
Barrel-hoop	L. Weil	162,725	Apr. 27, 1875	1085	344	7	736
Barrel-lifting machine	A. J. Small	170,599	Nov. 30, 1875	1269	399	8	934
Barrel-making machine	J. Y. Chapman	163,740	May 25, 1875	970	307	7	905

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Barrel-making machine	J. Martin	161,251	Mar. 23, 1875	941	{ 306 307	7	502
Barrel-pitching device	G. Meyer	167,681	Sept. 14, 1875	277	27, 88	8	452
Barrel-polishing machine	H. S. Smith	170,908	Dec. 7, 1875	222	77	8	980
Barrel-rack	C. F. Bigby	160,716	Mar. 9, 1875	423	141	7	418
Barrel-roller	C. L. Topliff	159,864	Feb. 16, 1875	604	200	7	280
Barrel-shaping machine	H. S. Smith	170,909	Dec. 7, 1875	223	77	8	981
Barrel, Sheet-iron	C. M. Wyvell	165,909	July 20, 1875	765	234	8	138
Barrel skid, Oil	I. M. Haight	168,393	Oct. 5, 1875	67	24	8	574
Barrel-stave adjuster	E. J. Granger	162,231	Apr. 20, 1875	595	195	7	667
Barrel trussing and squaring machine	J. Naylor, jr., and J. Greenwood	167,190	Aug. 31, 1875	1004	312	8	373
Barrel, Ventilating	E. B. Georgia	164,542	June 15, 1875	669	217	7	1040
Barrels, Coating for oil	M. W. Quick	158,978	Jan. 19, 1875	602	.....	7	122
Barrels, Compound for lining oil	A. Rieder	167,569	Sept. 7, 1875	167	.....	8	430
Barrels, Vent for beer	J. Hindemyer and E. Beinkampen	162,066	Apr. 13, 1875	424	141	7	639
Base-ball	J. Giblin	165,994	July 27, 1875	862	265	8	163
Base-ball base	J. C. O'Neill	171,038	Dec. 14, 1875	359	119	8	1006
Basin, &c., Trap	F. Adee and J. Foley	162,331	Apr. 20, 1875	684	223	7	678
Basins, Setting	J. Stevenson	161,291	Mar. 23, 1875	978	320	7	507
Basket	B. G. Meinikheim and W. D. Chase	170,755	Dec. 7, 1875	93	30	8	963
Basket	J. Meyer	166,215	Aug. 3, 1875	29	10	8	203
Basket	S. Weinstock	161,846	Apr. 6, 1875	227	76	7	601
Basket and table, Convertible lunch	E. B. Carver	165,305	July 6, 1875	146	44, 45	8	29
Basket-bottom	S. H. Wheeler	169,217	Oct. 26, 1875	876	285	8	711
Basket, Folding	G. Hammersley	169,358	Nov. 2, 1875	37	11	8	739
Basket, Grain	H. C. Jones	165,417	July 13, 1875	286	85	8	55
Basket, Newspaper	J. J. De Barry and T. J. and A. T. Lundqvist	166,073	July 27, 1875	932	288	8	173
Basket, Stave	H. C. Jones	165,416	July 13, 1875	286	84	8	55
Basket, Stave	H. C. Jones	165,418	July 13, 1875	287	85	8	55
Basket, Stave	H. C. Jones	165,419	July 13, 1875	288	85	8	55
Basket, Stave	H. C. Jones	169,446	Nov. 2, 1875	113	36	8	750
Basket, Stave	H. C. Jones	169,447	Nov. 2, 1875	113	36	8	750
Basket, Stave	H. C. Jones	169,448	Nov. 2, 1875	114	36	8	750
Basket, Stave	R. B. Wheeler	165,285	July 6, 1875	128	39	8	26
Basket, Stave	S. H. Wheeler	165,045	June 29, 1875	1,51	371	7	1119
Basket-stuff-shaving machine	R. J. Brooks, jr.	162,148	Apr. 20, 1875	517	170	7	658
Basket, Wicker	U. S. Wolf	165,047	June 29, 1875	1153	372	7	1119
Bath:							
See Electro-therapeutic bath.	Turkish and vapor bath.						
Shower-bath.	Vapor-bath.						
Bath attachment	T. D. Woolsey	158,877	Jan. 19, 1875	503	169	7	109
Bath-tub	A. C. Brownell	161,324	Mar. 30, 1875	1026	334	7	521
Bath-tub	E. Chamberlain	164,423	June 15, 1875	569	185	7	1027
Bath-tub attachment	T. D. Woolsey	159,556	Feb. 9, 1875	311	101	7	234
Bath-tub seat	J. W. Nye	170,762	Dec. 7, 1875	101	32	8	964
Bath-tub showering attachment	W. H. Rowe	164,768	June 22, 1875	879	287	7	1077
Bathing apparatus	E. Morse	163,327	May 18, 1875	587	188	7	847
Batter-feeder for cake-making	D. H. Lafferty	169,556	Nov. 2, 1875	216	71	8	764
Battery:							
See Earth-battery.	Galvanic battery.						
Flume-battery.							
Bayonet-sabbard	T. W. Rounds	165,953	July 27, 1875	822	252	8	157
Bayonet-sabbards, Apparatus for the manufacture of	T. W. Rounds	165,952	July 27, 1875	821	252	8	157
Beam, Compound iron	W. S. Sampson	158,983	Jan. 19, 1875	609	202	7	123
Beams and girders, Manufacture of metallic	A. Kloman	164,379	June 15, 1875	525	173	7	1021
Beams and tubes, Machine for making hollow	I. Hahn	165,094	June 29, 1875	1195	{ 384 385	7	1125
Bean and pumpkin-seed dropper	E. Sears	166,638	Aug. 10, 1875	433	134	8	268
Bearings, Anti-friction compound for	L. B. Lathrop and T. A. Weber	165,340	July 6, 1875	181	.....	8	34
Bearings, Compound for lining for machine	L. W. Lathrop and T. A. Weber	170,000	Nov. 16, 1875	674	212	8	838
Bearings, Conical-roller thrust	M. C. Bullock	165,538	July 13, 1875	402	120	8	72
Bearings, Lining for machine	L. W. Lathrop and T. A. Weber	170,747	Dec. 7, 1875	87	28	8	962
Bearings, Process for manufacturing material for	S. Cohn	166,188	Aug. 3, 1875	7	.....	8	200
Bed-bottom	J. L. Decker	161,765	Apr. 6, 1875	151	52	7	590
Bed-bottom	O. F. A. Faulkner	161,333	Mar. 30, 1875	1033	336	7	522
Bed-bottom	H. S. Hale	160,185	Feb. 23, 1875	906	298	7	329
Bed-bottom	J. B. Henion	161,960	Apr. 13, 1875	336	113	7	627
Bed-bottom	L. Hull	165,166	July 6, 1875	18	6	8	11
Bed-bottom	P. C. Ingersoll	160,913	Mar. 16, 1875	616	201	7	451
Bed-bottom	D. C. Kellam	160,439	Mar. 2, 1875	162	57	7	372
Bed-bottom	T. L. Odell	166,545	Aug. 10, 1875	350	107	8	256
Bed-bottom	M. B. Owens and G. Chamberlin	162,096	Apr. 13, 1875	449	149	7	642
Bed-bottom	C. W. and S. Purcell	170,111	Nov. 16, 1875	778	247	8	852
Bed-bottom	C. V. Reeder	166,634	Aug. 10, 1875	430	133	8	268
Bed-bottom	W. Wood	163,714	May 25, 1875	946	300	7	901
Bed-bottom frame	G. C. Perkins	171,042	Dec. 14, 1875	362	120	8	1006
Bed-bottom, Folding spring	E. P. Fowler	162,639	Apr. 27, 1875	985	317	7	724
Bed-bottom, Invalid	H. Ogborn and T. T. Kendrick	163,684	May 25, 1875	919	292	7	898
Bed-bottom, Spring	J. C. Anderson	164,957	June 29, 1875	1079	347	7	1109
Bed-bottom, Spring	W. W. Bartlett	169,615	Nov. 9, 1875	291	94	8	781
Bed-bottom, Spring	E. Barton	170,805	Dec. 7, 1875	137	45	8	969
Bed-bottom, Spring	H. Beach	162,604	Apr. 27, 1875	957	308	7	721
Bed-bottom, Spring	E. O. Bennett	163,627	May 25, 1875	877	276	7	892
Bed-bottom, Spring	E. O. Bennett	160,809	Mar. 16, 1875	535	173	7	439
Bed-bottom, Spring	A. P. Brown	163,356	May 18, 1875	612	195	7	850
Bed-bottom, Spring	E. P. Carter	163,574	May 25, 1875	825	261	7	886
Bed-bottom, Spring	A. M. Dennen and C. Newhouse	162,906	May 4, 1875	156	50	7	767
Bed-bottom, Spring	E. B. Dodge	162,631	Apr. 27, 1875	978	314	7	724
Bed-bottom, Spring	J. Fowler	163,370	May 18, 1875	625	200	7	852
Bed-bottom, Spring	J. Fowler and J. R. Dewar	159,086	Jan. 26, 1875	726	240	7	146
Bed-bottom, Spring	W. Goforth	170,077	Nov. 16, 1875	750	237	8	847
Bed-bottom, Spring	G. W. Hatch	158,413	Jan. 5, 1875	55	19	7	17

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Bed-bottom, Spring.....	W. D. Hatch.....	164, 170	June 8, 1875	315	107	7	984
Bed-bottom, Spring.....	I. N. and M. Hoyt.....	167, 902	Sept. 21, 1875	493	156	8	492
Bed-bottom, Spring.....	J. A. Jones.....	159, 930	Feb. 16, 1875	663	219	7	288
Bed-bottom, Spring.....	J. R. Newman.....	162, 680	Apr. 27, 1875	1035	330	7	730
Bed-bottom, Spring.....	B. P. Noteman.....	163, 234	May 11, 1875	478	155	7	817
Bed-bottom, Spring.....	J. Oothoudt, Z. M. P. Heaberlin, and E. M. Sweet.....	168, 279	Sept. 28, 1875	858	273	8	550
Bed-bottom, Spring.....	C. D. Rawson.....	163, 106	May 11, 1875	362	118	7	802
Bed-bottom, Spring.....	J. A. Reeds.....	164, 693	June 22, 1875	814	266	7	1068
Bed-bottom, Spring.....	A. D. Seaman.....	171, 180	Dec. 14, 1875	497	164	8	1024
Bed-bottom, Spring.....	C. T. Segar.....	169, 851	Nov. 9, 1875	534	166	8	811
Bed-bottom, Spring.....	G. L. Shepard.....	162, 316	Apr. 20, 1875	670	219	7	677
Bed-bottom, Spring.....	A. T. Sherwood.....	168, 056	Sept. 21, 1875	630	212	8	512
Bed-bottom, Spring.....	J. Wagner.....	163, 902	June 1, 1875	54	18	7	938
Bed-bottom, Spring.....	A. Youngs.....	170, 040	Nov. 16, 1875	708	225	8	843
Bed-bottom springs, Connection for.....	A. C. McMains.....	160, 274	Mar. 2, 1875	18	7	7	551
Bed, Camp.....	H. R. Mills.....	167, 617	Sept. 14, 1875	223	70	8	444
Bed-clothes holder.....	J. Lesh.....	170, 573	Nov. 30, 1875	1237	390	8	930
Bed crib, &c., covering.....	J. Forest and W. A. Weant.....	163, 471	May 18, 1875	710	227	7	864
Bed-lounge.....	C. Astalfy.....	161, 319	Mar. 30, 1875	1021	333	7	521
Bed-lounge.....	W. H. L. Gabbs.....	165, 815	July 20, 1875	673	206	8	125
Bed-lounge.....	T. Q. Hall.....	165, 571	July 13, 1875	432	130	8	77
Bed-lounge.....	A. Morris.....	166, 289	Aug. 3, 1875	97	30	8	213
Bed-lounge.....	D. J. Powers.....	170, 687	Dec. 7, 1875	31	9	8	955
Bed-rails to their posts, Device for fastening.....	L. Guenot.....	161, 507	Mar. 30, 1875	1205	387	7	544
Bed-slat.....	T. L. Odell.....	168, 064	Oct. 11, 1875	343	112	8	621
Bed, Sofa.....	J. B. Harlow.....	168, 155	Sept. 28, 1875	751	237	8	535
Bed, Sofa.....	A. Spiegel.....	167, 279	Aug. 31, 1875	1078	337	8	384
Bed, Spring.....	C. L. Alvord.....	163, 131	May 11, 1875	383	124	7	805
Bed, Spring.....	J. Johnson.....	166, 701	Aug. 17, 1875	507	155	8	287
Bed-stones, Oscillating.....	E. Armitage.....	170, 325	Nov. 23, 1875	997	313	8	889
Beds, Ventilating.....	E. L. Roberts.....	161, 551	Mar. 30, 1875	1243	400	7	549
Bedstead.....	J. B. French.....	164, 290	June 8, 1875	427	142	7	999
Bedstead.....	H. Ogborn and T. T. Kendrick.....	168, 342	Oct. 5, 1875	21	8	8	567
Bedstead.....	J. Petry.....	166, 806	Aug. 17, 1875	605	187	8	302
Bedstead.....	C. Snyder.....	160, 963	Mar. 16, 1875	664	217	7	457
Bedstead.....	W. Wrest.....	165, 284	July 6, 1875	127	39	8	26
Bedstead, Bureau.....	C. Brada.....	158, 670	Jan. 12, 1875	299	101	7	66
Bedstead, Cot.....	O. Howe.....	161, 234	Mar. 23, 1875	921	301	7	500
Bedstead, Cot.....	S. C. Lusk.....	162, 083	Apr. 13, 1875	437	146	7	640
Bedstead, Cot.....	L. Worcester and J. B. Howe.....	169, 880	Nov. 9, 1875	563	175	8	815
Bedstead-fastening.....	G. Bostwick.....	166, 961	Aug. 24, 1875	765	236	8	333
Bedstead-fastening.....	S. D. Butler.....	169, 235	Oct. 26, 1875	889	289	8	713
Bedstead-fastening.....	E. Deetz.....	162, 039	Apr. 13, 1875	397	134	7	635
Bedstead-fastening.....	W. H. Elliot.....	163, 408	May 18, 1875	707	226	7	863
Bedstead-fastening.....	W. H. Elliot.....	163, 757	May 25, 1875	983	311	7	906
Bedstead-fastening.....	W. H. Elliot.....	163, 982	June 1, 1875	119	40	7	947
Bedstead-fastening.....	A. Grillet.....	159, 405	Feb. 2, 1875	152	51	7	205
Bedstead-fastening.....	C. T. Laib.....	167, 909	Sept. 21, 1875	498	158	8	492
Bedstead-fastening.....	W. Merritt.....	161, 141	Mar. 23, 1875	838	273	7	488
Bedstead-fastening.....	G. Luppert.....	164, 883	June 22, 1875	994	321	7	1091
Bedstead, Folding.....	J. Flinn.....	169, 689	Nov. 9, 1875	373	117	8	791
Bedstead, Folding.....	H. Kriete.....	165, 492	July 13, 1875	360	106	8	65
Bedstead, Folding.....	P. B. Viele.....	159, 780	Feb. 16, 1875	526	175	7	270
Bedstead, Invalid.....	O. G. Cosby and G. W. McGovern.....	158, 913	Jan. 19, 1875	542	180	7	114
Bedstead, Invalid.....	J. Deneff and F. Wilkin.....	165, 075	June 29, 1875	1178	379	7	1123
Bedstead, Invalid.....	A. J. Goodwin.....	169, 099	Oct. 26, 1875	771	251	8	696
Bedstead, Invalid.....	J. Goodwin.....	160, 667	Mar. 9, 1875	377	127	7	412
Bedstead, Invalid.....	W. Huntress.....	169, 705	Nov. 9, 1875	387	121	8	793
Bedstead, Invalid.....	A. Kauffman.....	168, 503	Oct. 5, 1875	164	53, 54	8	588
Bedstead, Invalid.....	W. J. Kerr.....	170, 090	Nov. 16, 1875	761	241	8	849
Bedstead, Invalid.....	J. Michel.....	160, 694	Mar. 9, 1875	402	135	7	415
Bedstead, Invalid.....	G. Pence.....	164, 760	June 22, 1875	874	285	7	1076
Bedstead, Invalid.....	T. Watson and R. Kelso.....	169, 067	Oct. 19, 1875	718	237	8	681
Bedstead, Invalid.....	R. D. Whittemore.....	162, 985	May 4, 1875	234	75	7	778
Bedstead, Knock-down.....	W. S. Moses.....	166, 798	Aug. 17, 1875	599	185	8	301
Bedstead, Sofa.....	S. Bendit.....	169, 672	Nov. 9, 1875	350	110	8	788
Bedstead, Sofa.....	C. Burnitz.....	169, 771	Nov. 9, 1875	456	144	8	802
Bedstead, Sofa.....	J. L. Closterman.....	168, 877	Oct. 19, 1875	538	177	8	657
Bedstead, Sofa.....	J. B. N. Fifield.....	169, 976	Nov. 16, 1875	654	204	8	835
Bedstead, Sofa.....	F. Fischbeck.....	169, 978	Nov. 16, 1875	657	205	8	835
Bedstead, Sofa.....	J. H. Gould, jr.....	170, 079	Nov. 16, 1875	751	238	8	848
Bedstead, Sofa.....	W. R. Hamilton.....	170, 258	Nov. 23, 1875	939	293	8	881
Bedstead, Sofa.....	G. J. Henkels.....	170, 853	Dec. 7, 1875	176	60	8	974
Bedstead, Sofa.....	A. Holmers.....	164, 454	June 15, 1875	596	194	7	1030
Bedstead, Sofa.....	J. B. Kline.....	167, 908	Sept. 21, 1875	497	157	8	492
Bedstead, Sofa.....	R. S. McEntire.....	167, 680	Sept. 14, 1875	277	87	8	452
Bedstead, Sofa.....	J. Schoen.....	170, 403	Nov. 23, 1875	1068	336	8	899
Bedstead, Sofa.....	G. N. Seidler.....	170, 777	Dec. 7, 1875	113	36	8	965
Bedstead, Sofa.....	S. Squires.....	166, 566	Aug. 10, 1875	368	119	8	259
Bedstead, Sofa.....	J. K. and M. L. Stockton.....	169, 862	Nov. 9, 1875	545	170	8	812
Bedstead, Sofa.....	J. K. Underhill.....	159, 290	Feb. 2, 1875	44	16	7	190
Bedstead, Table.....	E. Kiss.....	169, 554	Nov. 2, 1875	213	70, 71	2	763
Bedstead, Toilet-stand.....	C. Schwartz and C. E. Woods.....	158, 986	Jan. 19, 1875	613	203	7	123
Bedstead, Wardrobe.....	H. W. Curtis.....	159, 908	Feb. 16, 1875	646	213	7	286
Bedstead, Wardrobe.....	R. G. McClure.....	160, 833	Mar. 16, 1875	554	179	7	442
Bee-hive.....	E. Armstrong.....	162, 788	May 4, 1875	50	16	7	753
Bee-hive.....	E. Armstrong.....	170, 098	Dec. 7, 1875	41	12	8	956
Bee-hive.....	A. B. Bowen.....	158, 826	Jan. 19, 1875	458	154	7	103
Bee-hive.....	J. Bullock.....	159, 893	Feb. 16, 1875	632	209	7	284
Bee-hive.....	J. S. Coe.....	159, 031	Jan. 26, 1875	722	239	7	145
Bee-hive.....	O. Colvin.....	170, 237	Nov. 23, 1875	919	286	8	878
Bee-hive.....	D. Cox.....	171, 214	Dec. 21, 1875	560	184	8	1040

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Bee-hive.....	J. R. Dickson	159,650	Feb. 9, 1875	381	126	7	245
Bee-hive.....	E. Gerry	161,606	Apr. 6, 1875	15	6	7	571
Bee-hive.....	S. Hixson	167,247	Aug. 31, 1875	1054	328	8	380
Bee-hive.....	P. Honnoll	167,250	Aug. 31, 1875	1056	328	8	381
Bee-hive.....	D. Latchaw	168,261	Sept. 28, 1875	842	269	8	548
Bee-hive.....	N. C. Mitchell	160,695	Mar. 9, 1875	403	135	7	415
Bee-hive.....	G. H. Mobley	161,428	Mar. 30, 1875	1125	363	7	534
Bee-hive.....	J. P. Peeler	168,283	Sept. 28, 1875	861	275	8	551
Bee-hive.....	H. Penoyer	165,501	July 13, 1875	368	109	8	66
Bee-hive.....	W. Vanurder	166,163	July 27, 1875	1024	315	8	186
Bee-hive moth-trap.....	W. H. Spurlin	170,601	Nov. 30, 1875	1270	400	8	934
Beef shaver, Smoked.....	C. R. Turner	168,433	Oct. 5, 1875	99	34	8	579
Beer and ale, Manufacture of.....	J. Matthews	168,268	Sept. 28, 1875	848	.....	8	549
Beer, &c., Compound for preserving.....	W. Zinsser	165,145	June 29, 1875	1240	.....	7	1132
Beer-cooler.....	F. Kranz	162,078	Apr. 13, 1875	434	144	7	640
Beer-cooler.....	A. Roos	164,040	June 1, 1875	174	62	7	955
Beer-cooler.....	B. A. Stevens	160,796	Mar. 16, 1875	524	169	7	438
Beer-cooler.....	W. Toepfer	163,421	May 18, 1875	666	213	7	858
Beer-cooler.....	J. B. Weis	160,291	Mar. 2, 1875	31	12	7	353
Beer, &c., Extract of.....	P. E. Lockwood	169,818	Nov. 9, 1875	503	.....	8	807
Beer, Manufacture of medicated.....	R. W. Tavener	161,574	Mar. 30, 1875	1268	407	7	552
Beer, &c., preserving apparatus.....	L. Weinmar	169,934	Nov. 16, 1875	622	193	8	830
Beer-pump, &c.....	D. S. Whitman	170,426	Nov. 23, 1875	1088	342	8	901
Beer-refrigerator.....	J. N. Bohart	166,742	Aug. 17, 1875	550	169	8	233
Beer, &c., Treating.....	F. C. Mussgiller and R. W. Schedler	169,830	Nov. 9, 1875	513	.....	8	808
Beer with gas, Apparatus for charging.....	J. C. Kennedy	165,004	June 29, 1875	1115	360	7	1114
Bell, Alarm.....	I. H. Abell	166,056	July 27, 1875	916	283	8	171
Bell, Call.....	E. C. Barton	171,084	Dec. 14, 1875	404	134	8	1012
Bell, Call.....	W. E. Hawkins and G. W. Hull	159,411	Feb. 2, 1875	154	52	7	205
Bell, Door.....	C. Coleman	168,721	Oct. 11, 1875	389	127	8	627
Bell, Door.....	J. P. Connell	169,675	Nov. 9, 1875	353	111	8	789
Bell, Door.....	F. G. Daniels	167,508	Sept. 7, 1875	111	34	8	422
Bell, Door.....	F. M. Johnson	163,015	May 11, 1875	277	89	7	791
Bell, Door.....	E. M. Lockwood	167,846	Sept. 21, 1875	443	141	8	484
Bell, Door.....	A. L. Swan	158,446	Jan. 5, 1875	81	28	7	21
Bell-pull.....	S. D. Arnold	164,126	June 8, 1875	275	94	7	979
Bell-pull.....	C. Clay	163,741	May 25, 1875	971	307	7	905
Bell-pull.....	W. Richardson	164,874	June 22, 1875	985	318	7	1090
Bell-pull, &c., fastening.....	J. Schade	161,355	Mar. 30, 1875	1054	343	7	525
Bell, Revolving chime.....	W. H. Nichols	162,682	Apr. 27, 1875	1036	330	7	730
Bell-ringing.....	G. H. Collins	168,453	Oct. 5, 1875	117	40	8	582
Bells to shafts, Device for attaching.....	A. A. Bevin	160,146	Feb. 23, 1875	873	288	7	325
Bellows.....	J. Bayliss	16,244	Aug. 3, 1875	54	17	8	207
Belt and band, Driving.....	E. G. Isaacs	167,838	Sept. 21, 1875	435	139	8	483
Belt, Cartridge.....	G. C. Henning	169,639	Nov. 9, 1875	319	102	8	784
Belt, Chain.....	H. Bushnell	169,655	Nov. 16, 1875	638	199	8	832
Belt-coupling.....	J. Hare	161,508	Mar. 30, 1875	1206	387	7	544
Belt-coupling.....	J. Hare	166,457	Aug. 10, 1875	280	83	8	246
Belt-coupling.....	G. A. Manning	165,010	June 29, 1875	1122	362	7	1115
Belt-fastener.....	W. M. Chapman	169,416	Nov. 2, 1875	89	27	8	747
Belt-fastener.....	J. B. McElroy	164,855	June 22, 1875	965	312	7	1088
Belt, Power.....	S. M. Clark	171,505	Dec. 28, 1875	844	276	8	1086
Belt-shifter.....	T. S. Crane	160,259	Mar. 2, 1875	5	3	7	349
Belt-shifter.....	J. D. Isaacs	166,464	Aug. 10, 1875	286	85	8	247
Belt-tightener.....	O. Cooley	171,354	Dec. 21, 1875	624	225	8	1056
Belt-twisting apparatus.....	M. P. Wilmarth	164,702	June 22, 1875	827	269	7	1070
Belting, Clasp for machine.....	G. H. Fox	167,832	Sept. 21, 1875	431	137	8	483
Belting, Leather.....	C. H. H. W., and E. P. Alexander	164,507	June 15, 1875	640	207	7	1036
Belting, Machine.....	C. A. Jewell	164,002	June 1, 1875	136	48	7	949
Belting, Manufacture of leather.....	F. G. Stemmer and G. O. Clark	163,337	May 18, 1875	597	.....	7	849
Belting, Uniting the ends of.....	C. C. Roe	169,482	Nov. 2, 1875	144	47	8	755
Bench:							
See Saw-bench. Wash-bench.							
Bench-hook.....	C. E. Smith	165,262	July 6, 1875	110	33	8	24
Bench-plane.....	A. H. Dean	161,213	Mar. 23, 1875	895	294	7	497
Bending machine, Metal.....	J. C. Chapman	160,647	Mar. 9, 1875	360	121	7	409
Bending machine, Metal.....	E. Devine	165,844	July 20, 1875	662	203	8	124
Bending machine, Metal.....	E. A. Peck	158,600	Jan. 12, 1875	237	80	7	57
Bending metal timber-hangers, Device for.....	J. Flynn	166,088	July 27, 1875	949	293	8	175
Bending machine, Wood.....	S. R. Bailey	170,981	Dec. 14, 1875	314	104	8	999
Bending machine, Wood.....	W. Briggs	164,901	June 29, 1875	1028	332	7	1103
Bending machine, Wood.....	J. W. Griffiths	171,376	Dec. 21, 1875	701	{ 231 } 232	8	1059
Bending machine, Wood.....	E. Q. Smith	170,910	Dec. 7, 1875	225	77	8	981
Bending wood.....	S. R. Bailey	162,138	Apr. 20, 1875	510	168	7	657
Berry-cup.....	D. W. Kniffin	163,665	May 25, 1875	906	288	7	896
Berth, Ship's.....	J. Mahoney	163,020	May 11, 1875	281	91	7	792
Berth, Ship's swinging.....	E. P. S. Andrews	170,324	Nov. 23, 1875	996	312	8	889
Berth, Ship's swinging.....	T. P. Ford	167,091	Aug. 24, 1875	893	278	8	351
Berth, Sleeping-car.....	C. E. Lucas	159,195	Jan. 26, 1875	823	271	7	159
Berth, Swinging.....	B. W. Brown	167,217	Aug. 31, 1875	1028	319	8	376
Berth, Swinging.....	J. Michel	161,051	Mar. 23, 1875	748	246	7	478
Berths, Swinging ship's.....	T. P. Ford	163,861	June 1, 1875	23	7	7	933
Berths, Swinging ship's.....	W. Von Auer	163,901	June 1, 1875	53	18	7	938
Bessemer converter.....	A. S. Dunning	164,982	June 29, 1875	1098	354	7	1112
Bessemer converters, Turning.....	W. F. Durfee	167,077	Aug. 24, 1875	874	273	8	348
Bevel, try-square, and dividers, Combined.....	W. Ascough	160,503	Mar. 9, 1875	236	81	7	391
Bias, Apparatus for cutting goods.....	S. Mayer	160,607	Mar. 9, 1875	327	110	7	404
Bias, Apparatus for cutting goods.....	S. Mayer	162,841	May 4, 1875	95	31	7	759
Bias-gage.....	J. A. Hamilton	165,999	July 27, 1875	866	266	8	163
Bilge-protector for vessels.....	B. Edgar	168,974	Oct. 19, 1875	629	208	8	670
Bilge-water from vessels, Means of discharging.....	C. M. Gearing	161,775	Apr. 6, 1875	158	55	7	592
Bilge-water from vessels, Means for ventilating and discharging.....	D. Leiby	164,191	June 8, 1875	331	113	7	987

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Bill holder and separator combined.....	A. M. Lockhart	160,780	Mar. 16, 1875	507	165	7	436
Billet-loop.....	K. W. Holmes.....	170,264	Nov. 23, 1875	944	295	8	881
Billiard-chalk holder.....	J. Simonton.....	169,488	Nov. 2, 1875	149	48	8	755
Billiard-cue-tip fastener.....	C. Gravelius.....	165,562	July 13, 1875	422	127	8	75
Billiard-cushion.....	F. E. Held and M. Bensinger.....	161,880	Apr. 13, 1875	269	90	7	619
Billiard-register, Electrical.....	C. H. Russell and J. Sax.....	164,661	June 22, 1875	785	257	7	1064
Billiard-table.....	H. W. Collender.....	170,059	Nov. 16, 1875	726	231	8	845
Billiard-table.....	A. Hand.....	170,169	Nov. 23, 1875	859	268	8	870
Billiard-table.....	F. E. Held.....	170,557	Nov. 30, 1875	1225	385	8	929
Billiard-table.....	C. Joergens.....	167,540	Sept. 7, 1875	142	43	8	426
Billiard-table bolt.....	J. E. Came.....	159,390	Feb. 2, 1875	132	46	7	203
Billiard-table cushion.....	H. W. Collender.....	167,501	Sept. 7, 1875	163	33	8	421
Billiard, &c., table leveler.....	A. J. Michel.....	169,281	Oct. 26, 1875	933	303	8	719
Bin: See Lime-bin.							
Binder, Temporary.....	W. A. Amberg.....	169,667	Nov. 9, 1875	346	109	8	788
Binder, Temporary.....	H. A. Behn, jr.....	161,198	Mar. 23, 1875	882	290	7	495
Binder, Temporary.....	W. H. Bennett.....	169,136	Oct. 26, 1875	805	261	8	701
Binder, Temporary.....	E. Buell.....	163,452	May 18, 1875	693	221	7	861
Binder, Temporary.....	A. A. Goldsmith.....	160,419	Mar. 2, 1875	145	51	7	369
Binder, Temporary.....	F. Guicheteau and A. Perin.....	158,839	Jan. 19, 1875	471	158	7	105
Binder, Temporary.....	J. N. Hale.....	160,517	Mar. 9, 1875	249	85	7	393
Binder, Temporary.....	C. D. Lindsey.....	170,222	Nov. 23, 1875	957	300	8	883
Binder, Temporary.....	N. S. Otis.....	168,179	Sept. 28, 1875	769	244	8	538
Binder, Temporary.....	R. O. Peirce and W. H. Foye.....	164,010	June 1, 1875	164	58	7	953
Binder, Temporary.....	H. B. Stephenson.....	170,202	Nov. 23, 1875	887	277	8	873
Bird-cage.....	H. Belmer.....	162,142	Apr. 20, 1875	512	169	7	657
Bird-cage.....	D. F. Burns.....	169,145	Oct. 26, 1875	812	263	8	702
Bird-cage.....	A. L. Edwards.....	166,595	Aug. 10, 1875	395	122	8	263
Bird-cage.....	A. L. Edwards.....	166,596	Aug. 10, 1875	396	122	8	263
Bird-cage.....	J. L. Fisher.....	167,325	Aug. 31, 1875	1119	351	8	390
Bird-cage.....	G. Gunther.....	162,645	Apr. 27, 1875	993	319	7	725
Bird-cage.....	G. Gunther.....	170,847	Dec. 7, 1875	171	58	8	973
Bird-cage.....	A. B. Hendryx.....	161,788	Apr. 6, 1875	169	58	7	593
Bird-cage.....	C. F. Holden.....	170,671	Dec. 7, 1875	16	5	8	953
Bird-cage.....	J. Maxheimer.....	162,400	Apr. 20, 1875	756	246	7	687
Bird-cage.....	L. P. Reichert.....	161,275	Mar. 23, 1875	965	315	7	505
Bird-cage.....	L. P. Reichert.....	163,330	May 18, 1875	590	189	7	848
Bird-cage attachment.....	G. Flidner.....	158,695	Jan. 12, 1875	320	109	7	69
Bird-cage feed-cup.....	G. R. Osborn and B. A. Drayton.....	171,309	Dec. 21, 1875	645	211	8	1051
Bird-cage, Hanging.....	G. W. Fuller.....	170,845	Dec. 7, 1875	170	58	8	973
Bird-cage hook.....	J. Conly.....	161,206	Mar. 23, 1875	890	292	7	496
Bird-cage hook.....	G. R. Osborn and B. A. Drayton.....	169,571	Nov. 2, 1875	232	76	8	766
Bird-cage hook, Extension.....	V. Baloom.....	163,909	June 1, 1875	60	20	7	938
Bird-cage mat.....	A. B. Hendryx.....	163,772	May 25, 1875	994	315	7	908
Bird-food holder.....	S. E. Tompkins.....	160,853	Mar. 16, 1875	567	184	7	444
Bird-house.....	E. A. La Bay.....	159,938	Feb. 16, 1875	671	222	7	289
Biscuit-cutter.....	A. P. Ashbourne.....	170,460	Nov. 30, 1875	1133	357	8	916
Bit:							
See Auger-bit.	Driving-bit.						
Boring-bit.	Expanding-bit.						
Bridle-bit.	Expansible bit.						
Cutter-bit.	Metal-boring bit.						
Drill-bit.	Snaffle-bit.						
Bit-gage.....	A. B. Batson.....	169,075	Oct. 26, 1875	744	243	8	693
Bit-stock.....	E. R. Charles.....	162,271	Apr. 20, 1875	631	206	7	672
Bit-stock.....	H. C. Hart.....	161,031	Mar. 23, 1875	731	240	7	475
Bit-stock.....	D. F. Sutton.....	163,896	June 1, 1875	49	17	7	937
Bit-stock.....	W. Tucker.....	160,365	Mar. 2, 1875	94	35	7	362
Bit-stock, Angular.....	J. W. At thoine.....	171,255	Dec. 21, 1875	598	196	8	1045
Blackboard attachment.....	H. B. Marshall.....	169,649	Nov. 9, 1875	328	104	8	786
Blackboard-eraser.....	G. H. Grant.....	164,547	June 15, 1875	673	218	7	1040
Blackboard-rubber.....	D. Jackson.....	164,173	June 8, 1875	318	108	7	895
Blackboards or slates, Process of forming.....	H. R. Stewart.....	169,861	Nov. 9, 1875	545	.....	8	812
Blacking case, Shoe.....	C. P. Ellis.....	159,167	Jan. 26, 1875	795	261	7	155
Blacking case, Shoe.....	W. H. Morse.....	159,602	Feb. 9, 1875	345	114	7	240
Clacking for boots, &c.....	C. Alvord.....	160,741	Mar. 16, 1875	465	.....	7	431
Blacking, Water-proof liquid.....	E. Clark.....	158,907	Jan. 19, 1875	537	.....	7	113
Blank and envelope, Combined.....	W. L. Gross and W. W. Kelchner.....	163,185	May 11, 1875	434	141	7	811
Blast-holes, Expanding-bit for enlarging.....	G. Frisbee.....	162,163	Apr. 20, 1875	532	175	7	659
Blast to furnaces, Device for supplying steam.....	E. J. Jones.....	167,103	Aug. 24, 1875	903	282	8	352
Blasting, &c., Detonating-cap for.....	J. Goldmark.....	168,895	Oct. 19, 1875	554	181	8	659
Blasting-process.....	G. Fri-bee.....	164,082	June 8, 1875	219	82	7	974
Blastings, &c., Priming for electric.....	G. M. Mowbray.....	161,432	Mar. 30, 1875	1128	.....	7	534
Bleaching-boiler, Rotary.....	H. Loring.....	166,117	July 27, 1875	976	301	8	179
Blind, Inside.....	J. Bryan.....	168,221	Sept. 28, 1875	805	256	8	543
Blind, Inside.....	T. Fetherston.....	169,247	Oct. 26, 1875	899	292	8	715
Blind, Inside venetian.....	J. Seaman.....	167,942	Sept. 21, 1875	521	166	8	496
Blind, Metallic window.....	W. S. Mackrell.....	166,535	Aug. 10, 1875	341	105	8	255
Blind-slat adjuster.....	D. A. Aaron.....	158,562	Jan. 12, 1875	201	69	7	53
Blind-slat adjuster.....	W. W. Byam.....	171,096	Dec. 14, 1875	416	139	8	1013
Blind-slat adjuster.....	J. L. A. Johnson and C. B. Hopkins.....	169,644	Nov. 9, 1875	325	103	8	785
Blind-slat adjuster.....	W. M. Lanphere.....	164,464	June 15, 1875	605	196	7	1031
Blind-slat adjuster.....	S. M. G. Lünd.....	163,019	May 11, 1875	280	90	7	792
Blind-slat adjuster.....	G. A. Myers.....	167,923	Sept. 21, 1875	506	161	8	494
Blind-slat adjuster.....	G. Nichols.....	169,570	Nov. 2, 1875	231	76	8	766
Blind-slat adjuster.....	J. G. White.....	165,394	July 6, 1875	242	73	8	41
Blind slat and rod wiring machine.....	W. S. Gray.....	163,065	May 11, 1875	326	{ 105 } { 106 }	7	797
Blind-slat operator.....	W. Strunk.....	169,127	Oct. 26, 1875	798	{ 258 } { 259 }	8	700
Blind-slats, Machinery for compressing the ends of.....	E. Cather.....	167,824	Sept. 21, 1875	423	135	8	481
Blind-slats, Machine for forming metallic end pieces } for.	S. M. Sherman.....	171,535	Dec. 28, 1875	869	{ 284 } { 285 }	8	1090

Alphabetical list of inventions—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Blind-stile-boring machine	J. Boe	171, 546	Dec. 28, 1875	879	287	8	1091
Blind-stile-boring machine	F. H. Danu	169, 679	Nov. 9, 1875	355	112	8	789
Blind-stile-boring machine	J. M. Seymour	168, 532	Oct. 5, 1875	193	63	8	592
Blind-stop	W. A. Clark	160, 051	Feb. 23, 1875	794	262	7	313
Blind-stop	J. Dougherty	158, 630	Jan. 12, 1875	261	89	7	61
Blind-stop	T. T. Duffy	164, 431	June 15, 1875	578	187	7	1028
Blind-stop	A. T. Elford	158, 634	Jan. 12, 1875	265	90	7	61
Blind-stop	N. Hetz	163, 073	May 11, 1875	331	108	7	798
Blind-stop	L. Jermain	161, 125	Mar. 23, 1875	823	269	7	487
Blind-stop	J. D. Jones	159, 417	Feb. 2, 1875	158	53	7	206
Blind-stop	E. S. Shock	158, 445	Jan. 5, 1875	80	28	7	20
Blind-stop	C. E. Steller	159, 620	Feb. 9, 1875	358	119	7	242
Blind-stop	C. E. Steller	165, 269	July 6, 1875	115	35	8	24
Blind-stop	G. Woodward	160, 805	Mar. 16, 1875	532	172	7	439
Blind-stop	W. Wright	167, 815	Sept. 14, 1875	404	130	8	471
Blind, Venetian	T. Fuyat	167, 889	Sept. 21, 1875	483	152	8	490
Blind, Window	S. W. Merrill	163, 679	May 25, 1875	915	291	7	898
Blind, Window	J. Peyer	163, 690	May 25, 1875	924	294	7	899
Blinds, Machinery for making	W. H. Tappae	166, 319	Aug. 3, 1875	123	38	8	217
Block:							
See Hat-block.	Picture and letter block.						
Head-block.	Pouncing-block.						
Letter-block.	Pulley-block.						
Letter and picture block.	Saw-mill head-block.						
Muff-block.	Slate-cleaning block.						
Pantaloons-block.	Snatch-block.						
Paving-block.	Stereotype-block.						
Paving and building block.	Tackle-block.						
	Toy building-block.						
	Wagon-brake block.						
Blood, tank-offal, &c., Apparatus for treating	T. Webber	170, 036	Nov. 16, 1875	703	{ 222 } 223	8	842
Blotter and paper-weight, Combined	W. H. Babcock	170, 043	Nov. 16, 1875	710	225	8	843
Blotter, paper-cutter, and ruler, Combined	F. R. Angell	162, 516	Apr. 27, 1875	825	283	7	712
Blow-pipe	C. Rumley	170, 304	Nov. 23, 1875	978	306	8	886
Blow-pipe, Self-acting	J. M. Hancock	166, 275	Aug. 3, 1875	81	25	8	211
Blower, Fan	B. F. Sturtevant	162, 967	May 4, 1875	219	70	7	776
Blower, Fan	B. F. Sturtevant	162, 968	May 4, 1875	219	70	7	776
Blower, Fire	J. Reid	169, 525	Nov. 2, 1875	245	89	8	767
Blower, Fire-place	J. C. Kenneday	167, 906	Sept. 21, 1875	496	157	8	492
Blower for gas-machines, Pressure	J. H. Bean	165, 782	July 20, 1875	636	{ 195 } 196	8	121
Blower, Forge	L. H. Watson	161, 581	Mar. 30, 1875	1273	409	7	553
Blower, Rotary	T. S. Disston	165, 805	July 20, 1875	662	201	8	124
Blower, Rotary	J. McCloskey	161, 349	Mar. 30, 1875	1048	341	7	524
Blower, Rotary pressure	W. L. Palmer and I. W. Knox	166, 295	Aug. 3, 1875	101	32	8	213
Blower, Rotary pressure	T. L. Varns	164, 346	June 8, 1875	482	159	7	1006
Bluing-case	S. W. Sheldon	162, 860	May 4, 1875	115	37	7	762
Board:							
See Advertising display-board.	Kneading-board.						
Bosom-board.	Lap-board.						
Buck-board.	Leather-board.						
Center-board.	Marking-board.						
Dash-board.	Mold-board.						
Dough-kneading board.	Organ-reed board.						
Drawing-board.	Paper-board.						
Flooring board.	Piano-forte name-board.						
Game-board.	Straw-board.						
Insect clip-board.	Wash-board.						
Ironing-board.							
Boat:							
See Canal-boat.	Life-boat.						
Collapsible boat.	Steam-boat.						
Ice-boat.	Torpedo-boat.						
Boat-detaching apparatus	J. Patterson	170, 892	Dec. 7, 1875	208	72	8	978
Boat-framing machine	C. Bartlett	169, 334	Nov. 2, 1875	10	3	8	736
Bobbin	H. J. Hubbard	169, 546	Nov. 2, 1875	207	68	8	762
Bobbin-casting machine	M. Dimock	160, 008	Feb. 23, 1875	757	251	7	308
Bobbin-casting mold	M. Dimock	159, 397	Feb. 2, 1875	139	48	7	204
Bobbin-turning machine	L. Bean and J. M. Butters	164, 130	June 8, 1875	278	95	7	979
Bobbin-winder	J. Dornan	165, 807	July 20, 1875	665	203	8	124
Body-brace	H. R. Allen	164, 706	June 22, 1875	830	270	7	1070
Body-loop	R. W. McClelland	162, 670	Apr. 27, 1875	1020	326	7	728
Boiler:							
See Agricultural boiler.	Sectional boiler.						
Bleaching-boiler.	Steam-boiler.						
Fire-engine boiler.	Tubular boiler.						
Gas-burning boiler.	Upright boiler.						
Locomotive-boiler.	Wash-boiler.						
Portable boiler.	Water-heater boiler.						
Portable-engine boiler.	Water-tube boiler.						
Range-boiler.							
Boiler-alarm and register, Electric	W. C. Baker	165, 700	July 20, 1875	564	172	8	110
Boiler anti-incrustation battery	J. F. Donoghue	160, 008	Feb. 23, 1875	759	241	7	308
Boiler-cleaner	T. O. Kemp	166, 782	Aug. 17, 1875	582	179	8	298
Boiler-covering	J. W. Hanmore	159, 546	Feb. 9, 1875	305	99	7	233
Boiler-covering	A. Leydet	161, 801	Apr. 6, 1875	180	.....	7	595
Boiler-covering	L. L. Merrell	170, 099	Nov. 16, 1875	769	.....	8	850
Boiler-covering	E. W. Smith	161, 168	Mar. 23, 1875	859	280	7	492
Boiler-covering	F. B. Stevens	169, 492	Nov. 2, 1875	152	50	8	756
Boiler-explosions, Means for preventing	G. Selden	161, 709	Apr. 6, 1875	99	35	7	853
Boiler-feeder	V. D. Anderson	168, 077	Sept. 28, 1875	669	213	8	525
Boiler-feeder	F. McGuire	160, 930	Mar. 16, 1875	634	207	7	453

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Boiler-feeder	T. Reese	164,595	June 15, 1875	713	232	7	1046
Boiler-feeder and regulator	T. G. Gardner	163,177	May 11, 1875	426	139	7	810
Boiler-feeder, Automatic	S. Cook	171,100	Dec. 14, 1875	420	{ 139 140 }	8	1014
Boiler-feeder, &c., Automatic	J. W. Hopkins	159,095	Jan. 26, 1875	733	242	7	147
Boiler-flue cleaner	M. M. Smith	165,182	July 6, 1875	39	11	8	14
Boiler for heating purposes	E. and W. B. Mayer	158,854	Jan. 19, 1875	483	162	7	107
Boiler-furnace	W. Allensworth	159,138	Jan. 26, 1875	770	253	7	152
Boiler furnace, Locomotive	W. F. Grassler	167,448	Sept. 7, 1875	61	19	8	415
Boiler furnace, Steam	D. P. Beard	163,137	May 11, 1875	388	125	7	805
Boiler furnace, Steam	H. E. Champion	159,902	Feb. 16, 1875	640	212	7	285
Boiler furnace, Steam	E. P. Chancellor	158,625	Jan. 12, 1875	257	87	7	60
Boiler furnace, Steam	W. Dawson and J. Hughes	162,536	Apr. 27, 1875	902	288	7	713
Boiler furnace, Steam	J. Enright	169,531	Nov. 2, 1875	185	63	8	760
Boiler furnace, Steam	R. H. Gordon, jr.	170,948	Dec. 14, 1875	278	94	8	995
Boiler furnace, Steam	J. C. Hoadley	161,122	Mar. 23, 1875	820	268	7	487
Boiler furnace, Steam	E. Kaselowsky	168,502	Oct. 5, 1875	163	53	8	588
Boiler furnace, Steam	J. A. Locke	169,455	Nov. 2, 1875	120	38	8	751
Boiler furnace, Steam	S. Moses	168,766	Oct. 11, 1875	431	140	8	634
Boiler furnace, Steam	C. E. Robinson	171,632	Dec. 28, 1875	976	316	8	1104
Boiler furnace, Steam	C. D. Smith	165,690	July 20, 1875	555	169	8	109
Boiler furnace, Steam	H. M. Smith	164,403	June 15, 1875	548	179	7	1024
Boiler furnaces, Feeding air to steam	W. C. Ford	170,165	Nov. 23, 1875	855	267	8	869
Boiler furnaces, Superheater for marine	W. C. Ford	170,163	Nov. 23, 1875	853	267	8	869
Boiler-furnaces, Supplying heated air to	W. C. Ford	170,164	Nov. 23, 1875	854	267	8	869
Boiler-head flanges, Machine for turning	R. C. Nugent	166,715	Aug. 17, 1875	524	160	8	290
Boiler-heater and feed-pump	J. A. T. Overend	165,860	July 20, 1875	722	220	8	132
Boiler-incrustations, Compound for removing	J. M. Wishart	169,219	Oct. 26, 1875	877	.....	8	712
Boiler, pipe, &c., covering	W. O'Hara	159,206	Jan. 26, 1875	834	.....	7	161
Boiler-plate-punching machine	D. C. Carroll, D. Rogers, and A. W. Foster, jr.	164,673	June 22, 1875	796	261	7	1066
Boiler-tube	S. W. Martin	169,913	Nov. 16, 1875	604	187	8	828
Boiler-tube cleaner	C. Schmandt	161,558	Mar. 30, 1875	1248	401	7	550
Boiler-tube expander	O. Pagan	160,699	Mar. 9, 1875	407	136	7	416
Boiler-tubes, Device for securing	J. E. Jerrold	167,339	Aug. 31, 1875	1131	355	8	391
Boiling-pot	W. H. Hennaman and W. F. Shaw, jr.	166,102	July 27, 1875	963	297	8	177
Bolt: .....	.....	.....	.....	.....	.....	.....	.....
See Door-bolt. Shutter-bolt.	.....	.....	.....	.....	.....	.....	.....
Flour-bolt. Wagon-bolt.	.....	.....	.....	.....	.....	.....	.....
King-bolt. ....	.....	.....	.....	.....	.....	.....	.....
Bolt	T. E. S. Crane	167,828	Sept. 21, 1875	427	136	8	482
Bolt and lath machine, Combined	J. C. Gaither and J. T. Hill	168,474	Oct. 5, 1875	137	46	8	584
Bolt and rivet cutter	D. M. Kelley	168,568	Oct. 11, 1875	252	83	8	607
Bolt and rivet machine	J. C. Getz	167,522	Sept. 7, 1875	126	38	8	424
Bolt-ends, Device for rounding	J. Nelson	163,797	May 25, 1875	1015	322	7	911
Bolt heading and squaring die	J. B. Clark	165,542	July 13, 1875	407	122	8	72
Bolt-heading die	R. Gracey	158,484	Jan. 5, 1875	117	40	7	25
Bolt-heading machine	R. Gracey	158,485	Jan. 5, 1875	119	40	7	26
Bolt-heading machine	S. C. Smith	162,583	Apr. 27, 1875	940	302	7	719
Bolt-heading-machine die	J. Browning	167,062	Aug. 24, 1875	863	268	8	346
Bolt-pointing tool	P. Hartin and W. Cummins	159,922	Feb. 16, 1875	656	217	7	287
Bolt-threading machine	E. Schlenker	162,194	Apr. 20, 1875	559	{ 183 184 }	7	663
Bolt-trimmer	A. Graham	165,445	July 13, 1875	315	93	8	58
Bolts, Machine for dressing the heads and pointing } and threading the shanks of. }	W. E. Hard	171,493	Dec. 28, 1875	828	{ 272 273 }	8	1084
Bolts, rivets, &c., Machine for making	J. R. Blakeslee	170,151	Nov. 23, 1875	843	264	8	867
Bolting-chest	D. N. Swisher and E. P. Campbell	167,362	Aug. 31, 1875	1152	362	8	394
Bolting-reel	A. H. Nordyke	162,408	Apr. 20, 1875	764	247	7	688
Bomb-lance	P. Cunningham	171,553	Dec. 28, 1875	884	290	8	1092
Bone-black, Apparatus for burning and revivifying	J. Gandolfo	165,992	July 27, 1875	861	265	8	163
Bone-black revivifier	J. Gandolfo	167,235	Aug. 31, 1875	1043	324	8	379
Bone-crushing machine	A. Kumpf	159,334	Feb. 2, 1875	88	30	7	196
Bonnet-fastener	E. K. Hall	171,015	Dec. 14, 1875	342	114	8	1003
Book, Account	R. Mott and C. Carroll	169,828	Nov. 9, 1875	512	160	8	808
Book and music support	L. Berg	171,260	Dec. 21, 1875	604	197	8	1046
Book-backing machine	J. Armstrong	166,328	Aug. 3, 1875	129	40	8	217
Book-backing machine	J. E. Coffin	171,366	Dec. 21, 1875	693	{ 228 229 }	8	1058
Book-binding	G. K. Snow	168,535	Oct. 5, 1875	198	65	8	592
Book, Blank	I. Reynolds	164,873	June 22, 1875	984	318	7	1090
Book-case	J. J. Crandall	161,669	Apr. 6, 1875	71	25	7	579
Book-clamp	J. B. Boyce	161,743	Apr. 6, 1875	133	46	7	588
Book-clasp	N. Harlan	164,646	June 22, 1875	773	253	7	1063
Book-clip	H. T. Dunlap	160,886	Mar. 16, 1875	596	194	7	448
Book, Copy	E. F. Goodman	167,447	Sept. 7, 1875	60	18	8	415
Book-cover protector	G. W. Holden	169,905	Nov. 16, 1875	596	185	8	829
Book-holder	L. A. Moulton	168,276	Sept. 28, 1875	856	272	8	550
Book-holder	A. L. Wilson	160,044	Feb. 23, 1875	787	259	7	312
Book, Pocket blank	A. V. S. Smith	168,796	Oct. 11, 1875	457	149	8	637
Book-rack	D. J. Stein	158,751	Jan. 12, 1875	364	124	7	75
Book-rack, Suspension	F. F. Hill	167,246	Aug. 31, 1875	1053	327	8	380
Book-rest	R. S. Grummon	161,026	Mar. 23, 1875	727	239	7	475
Book rounding and backing machine	G. L. Bailey	161,089	Mar. 23, 1875	784	{ 258 259 }	7	482
Book rounding and backing machine	J. E. Coffin	158,679	Jan. 12, 1875	305	104	7	67
Book-sewing machine	J. Armstrong	166,329	Aug. 3, 1875	131	41	8	218
Book-stitching machine	L. Goddu	168,736	Oct. 11, 1875	405	132	8	630
Book-support	W. Patton	165,500	July 13, 1875	368	109	8	66
Book-support	R. T. Stoddard	161,293	Mar. 23, 1875	980	320	7	507
Book-supporter	R. T. Stoddard	167,951	Sept. 21, 1875	528	169	8	498
Books, Fire-proof covering for	E. W. Glover	169,536	Nov. 2, 1875	190	65	8	761
Boom, Sheer	H. Anderson	160,070	Feb. 23, 1875	812	267	7	315

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Boom, Sheer.....	W. C. Culbertson.....	158,917	Jan. 19, 1875	546	182	7	114
Boom, Sheer.....	W. C. Culbertson.....	163,062	May 11, 1875	265	86	7	790
Boom, Sheer.....	T. Irvine.....	159,328	Feb. 2, 1875	83	28	7	195
Boom, Sheer.....	P. A. Prince.....	164,211	June 8, 1875	348	119	7	989
Boot.....	A. A. Cuming.....	162,882	Oct. 19, 1875	543	178	8	658
Boot.....	H. Hall.....	167,450	Sept. 7, 1875	63	19	8	415
Boot and glove buttoner combined.....	G. Stackpole.....	161,548	Mar. 30, 1875	1241	399	7	549
Boot and shoe.....	W. Biddle.....	171,498	Dec. 28, 1875	838	274	8	1085
Boot and shoe.....	T. R. Evans.....	163,171	May 11, 1875	422	137	7	810
Boot and shoe.....	T. R. Evans.....	170,359	Nov. 23, 1875	1023	321	8	893
Boot and shoe.....	C. F. Hill.....	162,923	May 4, 1875	168	52	7	769
Boot and shoe.....	E. S. Justh.....	169,006	Oct. 19, 1875	600	217	8	673
Boot and shoe.....	W. Meyer and H. Freiburg.....	161,809	Apr. 6, 1875	189	64	7	596
Boot and shoe.....	W. Meyer and H. Freiburg.....	164,860	June 22, 1875	971	314	7	1088
Boot and shoe.....	W. Meyer and H. Freiburg.....	166,621	Aug. 10, 1875	418	129	8	266
Boot and shoe.....	W. B. Rice.....	170,016	Nov. 16, 1875	689	216	8	840
Boot and shoe.....	M. Robling.....	168,051	Sept. 21, 1875	625	200	8	512
Boot and shoe.....	F. O. Ward.....	170,611	Nov. 30, 1875	1279	403	8	935
Boot and shoe burnisher and seat-wheel.....	A. C. and T. T. Esworthy.....	170,358	Nov. 23, 1875	1023	321	8	893
Boot and shoe burnishing and finishing tool.....	J. W. Carver.....	165,917	July 27, 1875	783	240	8	153
Boot and shoe burnishing machine.....	G. McKay and H. P. Fairfield.....	159,339	Feb. 2, 1875	91	32	7	196
Boot and shoe cleaner.....	H. H. Holmes.....	163,492	May 18, 1875	732	233	7	866
Boot and shoe cording material.....	A. P. Nash.....	161,434	Mar. 30, 1875	1130	364	7	534
Boot and shoe counter blanks, Machine for notching and flanging.....	N. Harwood.....	168,329	Oct. 5, 1875	13	5	8	566
Boot and shoe counter stiffeners, Apparatus for shaping.....	J. R. Moffitt.....	159,835	Feb. 16, 1875	575	191	7	276
Boot and shoe counter stiffeners, Machine for skiving.....	C. H. Orcutt.....	159,606	Feb. 9, 1875	348	115	7	241
Boot and shoe counters, Machine for making.....	J. R. Moffitt.....	159,702	Feb. 9, 1875	434	{ 145 } 146	7	253
Boot and shoe counters, Machinery for skiving.....	T. Andrews.....	168,596	Oct. 11, 1875	280	91	8	611
Boot and shoe crimper.....	C. Heller.....	164,680	June 22, 1875	801	262	7	1067
Boot and shoe crimping machine.....	L. H. Farnsworth and T. Barrett.....	158,789	Jan. 19, 1875	422	142	7	99
Boot and shoe crimping machine.....	J. P. Mitchell.....	165,605	July 13, 1875	460	141	8	80
Boot and shoe crimping machine.....	L. H. Farnsworth.....	158,788	Jan. 19, 1875	421	141	7	99
Boot and shoe fastening.....	H. E. Dennett.....	167,829	Sept. 21, 1875	428	136	8	483
Boot and shoe, Gaiter.....	W. E. Putnam.....	163,525	May 18, 1875	770	244	7	871
Boot and shoe, Laced.....	P. Plant.....	163,804	May 25, 1875	1023	324	7	912
Boot and shoe leather crimping machine.....	C. B. Long.....	161,247	Mar. 23, 1875	935	{ 304 } 305	7	502
Boot and shoe nailing machine.....	W. Fitzgerald.....	169,429	Nov. 2, 1875	99	31	8	748
Boot and shoe nailing machine.....	G. McKay and H. P. Fairfield.....	171,300	Dec. 21, 1875	637	209	8	1050
Boot and shoe nailing machine.....	F. M. Shaw.....	169,661	Nov. 9, 1875	339	107	8	787
Boot and shoe nailing machines, Jack attachment for.....	L. Goddu.....	163,475	May 18, 1875	718	229	7	865
Boot and shoe polishing machine.....	W. Place and R. Cunningham.....	170,765	Dec. 7, 1875	103	32	8	964
Boot and shoe rands, Die for cutting.....	C. H. Brigham.....	164,963	June 29, 1875	1083	349	7	1110
Boot and shoe shank making machine.....	L. Bradford, 2d.....	162,740	May 4, 1875	5	2	7	747
Boot and shoe shank stiffeners, Machine for cutting.....	J. M. Watson.....	170,135	Nov. 16, 1875	601	253	8	855
Boot and shoe stiffener.....	G. Boivin.....	162,525	Apr. 27, 1875	892	285	7	712
Boot and shoe strap protector.....	H. P. Osborne.....	166,547	Aug. 10, 1875	351	108	8	257
Boot and shoe stretcher.....	O. F. Garvey.....	165,556	July 13, 1875	417	126	8	74
Boot and shoe tack driving machine.....	H. G. Thompson and C. Luke.....	159,473	Feb. 2, 1875	221	72	7	215
Boot and shoe tack driving machine.....	H. G. Thompson and C. Luke.....	159,474	Feb. 2, 1875	222	72	7	215
Boot and shoe tack driving machine.....	H. G. Thompson and C. Luke.....	159,475	Feb. 2, 1875	223	72	7	215
Boot and shoe tip.....	F. L. Straw and B. F. Sparrow.....	170,028	Nov. 16, 1875	697	220	8	841
Boot and shoe toe protector.....	R. and J. Evitt.....	165,085	June 29, 1875	1185	381	7	1124
Boot and shoe welts, Machine for cutting and blacking.....	T. K. Keith.....	170,955	Dec. 14, 1875	285	96	8	996
Boot and shoe, Wooden-soled.....	M. J. S. Falcon.....	166,517	Aug. 10, 1875	328	99	8	253
Boot and shoe, Wooden-soled.....	M. J. S. Falcon.....	170,161	Nov. 23, 1875	851	266	8	868
Boot-calk, Raftsmen's.....	R. D. Guilford.....	167,239	Aug. 31, 1875	1046	325	8	379
Boot-clamp for boot-blacks.....	O. Collier.....	161,593	Apr. 6, 1875	6	2	7	569
Boot-crimper.....	W. H. Eddy.....	169,971	Nov. 16, 1875	649	203	8	834
Boot-fronts, Mode of cutting.....	J. T. Harper.....	165,572	July 13, 1875	432	131	8	77
Boot, Gaiter.....	B. C. Young.....	159,135	Jan. 26, 1875	768	252	7	151
Boot-holder.....	A. N. Breneman.....	166,182	Aug. 3, 1875	2	1	8	199
Boot-jack.....	H. N. Conklin.....	158,911	Jan. 19, 1875	541	180	7	113
Boot-jack.....	A. N. De Baun.....	165,482	July 13, 1875	353	103	8	64
Boot-jack.....	I. Massie.....	171,398	Dec. 21, 1875	728	239	8	1062
Boot-jack.....	M. A. Richardson.....	168,107	Sept. 28, 1875	701	222	8	529
Boot-leg-turning machine.....	D. Bissell.....	159,295	Feb. 2, 1875	47	17	7	191
Boot, Opera.....	J. T. Harper.....	162,916	May 4, 1875	163	53	7	768
Boot or shoe soles, Machinery for forming an imitation stitch on.....	C. S. Dunbrack and W. B. Fezey.....	158,633	Jan. 12, 1875	263	89	7	61
Boot or shoe tip.....	H. W. Merrill and J. W. Hoitt.....	160,835	Mar. 16, 1875	555	180	7	442
Boot, Rubber.....	J. Pienovi.....	170,767	Dec. 7, 1875	104	33	8	964
Boot, Rubber.....	I. F. Williams.....	166,669	Aug. 10, 1875	460	141	8	272
Boot-shank spring.....	T. C. Walker.....	168,301	Sept. 28, 1875	876	280	8	553
Boot-shank stiffener.....	J. M. Watson.....	159,485	Feb. 2, 1875	230	75	7	216
Boot-tree.....	G. W. Badger.....	170,462	Nov. 30, 1875	1137	358	8	917
Boot-tree.....	T. Branigan.....	165,151	July 6, 1875	5	2	8	9
Boot-tree.....	H. C. Cass and G. R. Rankin.....	166,499	Aug. 10, 1875	314	95	8	251
Boot-tree.....	R. Turneure.....	164,496	June 15, 1875	631	204	7	1034
Boots and shoes, Blank for box-toes of.....	N. R. Packard.....	166,804	Aug. 17, 1875	603	186	8	302
Boots and shoes, Channel opener and molder for.....	T. L. Miller.....	168,045	Sept. 21, 1875	619	198	8	510
Boots and shoes, Insole or former for use in making.....	J. Elam.....	162,463	Apr. 27, 1875	837	270	7	706
Boots and shoes, Leather tip for.....	A. Van Wagenen.....	166,658	Aug. 10, 1875	448	138	8	271
Boots and shoes, Machine for embossing the uppers of.....	E. B. Stimpson.....	168,804	Oct. 11, 1875	463	151	8	638
Boots and shoes, Machine for inserting fibrous screw-fastenings in.....	G. V. Sheffield.....	161,449	Mar. 30, 1875	1142	{ 368 } 369	7	536
Boots and shoes, Machine for making box-toes for.....	G. S. Heaton.....	162,381	Apr. 20, 1875	738	240	7	685
Boots and shoes, Machine for screwing uppers to soles of.....	C. Tyson.....	164,345	June 8, 1875	477	{ 158 } 159	7	1066
Boots and shoes, Manufacture of counter-stiffeners for.....	H. Rogers.....	159,220	Jan. 26, 1875	817	277	7	163
Boots and shoes, Metallic counter-support for.....	H. C. Babcock.....	163,349	May 18, 1875	608	194	7	850

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Boots and shoes, Screw-threaded wire for use in manufacture of.	A. Van Wagenen.....	161,842	Apr. 6, 1875	224	75	7	601
Boring and mortising machine.....	H. Neumann.....	165,495	July 13, 1875	363	107	8	65
Boring bit, Wood.....	G. L. Holt.....	164,999	June 29, 1875	1112	359	7	1114
Boring cylinders' Machine for.....	J. C. Chapman.....	162,458	Apr. 27, 1875	832	268	7	705
Boring-machine.....	G. W. Badger.....	170,980	Dec. 14, 1875	312	104	8	999
Boring-machine.....	G. Dryden.....	159,164	Jan. 26, 1875	792	260	7	155
Boring-machine.....	D. Minich.....	168,170	Sept. 28, 1875	763	242	8	537
Boring-machine.....	Z. C. Phillips.....	158,809	Jan. 19, 1875	442	147	7	101
Boring-machine.....	J. and G. Richards.....	159,279	Feb. 2, 1875	33	12	7	189
Boring-machine.....	M. T. Wilder, W. H. McNeil, } and H. C. Tyler.....	168,862	Oct. 19, 1875	526	{ 172 } 173	8	655
Boring machine, Wood.....	C. G. Cross.....	159,749	Feb. 16, 1875	497	166	7	266
Boring machine, Wood.....	J. Faraday.....	163,586	May 25, 1875	839	265	7	887
Boring machines, Gage attachment to wood.....	G. S. Hudson.....	170,267	Nov. 23, 1875	946	296	8	882
Bosom-board.....	A. Mallory.....	162,484	Apr. 27, 1875	857	275	7	708
Bosom-form.....	E. Leetch.....	165,842	July 20, 1875	705	214	8	129
Bosom-pad.....	J. C. Tallman.....	162,869	May 4, 1875	121	40	7	763
Bottle.....	J. Ernst.....	170,073	Nov. 16, 1875	746	236	8	847
Bottle.....	L. F. C. Schmidt.....	162,314	Apr. 20, 1875	669	218	7	677
Bottle.....	T. W. Synnott.....	162,117	Apr. 13, 1875	473	156	7	644
Bottle-capsuling apparatus.....	A. Bosquet.....	163,045	May 11, 1875	306	98	7	794
Bottle-capsuling machine.....	J. Patterson.....	159,707	Feb. 9, 1875	439	147	7	253
Bottle carrier, Soda.....	A. F. Knorp.....	165,005	June 29, 1875	1117	360	7	1115
Bottle, Dropping.....	C. C. Garrett.....	165,091	June 29, 1875	1191	383	7	1125
Bottle filler and corker.....	G. H. Ferry.....	161,107	Mar. 23, 1875	805	264	7	485
Bottle, Measuring.....	F. S. Baldwin.....	165,054	June 29, 1875	1159	373	7	1120
Bottle, Mustard.....	A. A. Plastridge.....	161,351	Mar. 30, 1875	1049	341	7	524
Bottle-necks, Machine for finishing.....	W. Langwell.....	166,390	Aug. 3, 1875	192	57	8	226
Bottle, Nursing.....	J. J. Christie.....	166,747	Aug. 17, 1875	553	170	8	294
Bottle, Nursing.....	J. L. Mason.....	159,197	Jan. 26, 1875	825	272	7	159
Bottle-opener, knife, ice-pick, &c., combined.....	G. A. Kiel and E. H. Kohler.....	169,175	Oct. 26, 1875	838	273	8	706
Bottle-stopper.....	C. M. Blydenburgh.....	159,067	Jan. 26, 1875	708	233	7	143
Bottle-stopper.....	R. Bollerman and D. L. Bollerman.....	162,346	Apr. 20, 1875	699	227	7	680
Bottle-stopper.....	W. Bourguignon.....	158,464	Jan. 5, 1875	98	33	7	23
Bottle-stopper.....	A. Christin.....	161,863	Apr. 13, 1875	250	83	7	616
Bottle-stopper.....	G. J. Crikelair.....	162,803	May 4, 1875	62	20	7	755
Bottle-stopper.....	C. De Quillfeldt.....	158,406	Jan. 5, 1875	48	17	7	15
Bottle-stopper.....	F. Haury.....	167,530	Sept. 7, 1875	134	41	8	425
Bottle-stopper.....	T. J. Holmes.....	160,325	Mar. 2, 1875	63	22	7	358
Bottle-stopper.....	E. H. Hunt.....	169,000	Oct. 19, 1875	653	215	8	673
Bottle-stopper.....	A. Luthy.....	169,456	Nov. 2, 1875	121	38	8	751
Bottle-stopper.....	T. W. Murray.....	163,026	May 11, 1875	290	94	7	792
Bottle-stopper.....	T. W. Murray.....	171,410	Dec. 21, 1875	738	242	8	1063
Bottle-stopper.....	S. S. Newton.....	171,304	Dec. 21, 1875	641	210	8	1050
Bottle-stopper.....	G. E. Reed.....	166,298	Aug. 3, 1875	104	32	8	214
Bottle-stopper.....	M. W. Shaw.....	164,223	June 8, 1875	357	122	7	990
Bottle-stopper.....	W. Vom Hofe.....	163,553	May 18, 1875	793	251	7	874
Bottle-stopper.....	W. Vom Hofe.....	167,141	Aug. 24, 1875	937	292	8	357
Bottle stopper and discharger.....	F. B. Michell.....	159,200	Jan. 26, 1875	828	272	7	160
Bottle stopper and paddle combined, Blacking.....	H. D. Forbes.....	164,912	June 29, 1875	1038	335	7	1104
Bottle-stopper fastening.....	W. H. Bate.....	167,633	Sept. 14, 1875	239	74	8	446
Bottle stopper or cork.....	J. Schriek.....	164,879	June 22, 1875	991	320	7	1090
Bottle-stopper wire fastening.....	H. W. Yerington.....	162,451	Apr. 20, 1875	806	{ 261 } 262	7	693
Bottle-stoppers, Machine for bending wire frames of.....	C. De Quillfeldt.....	167,650	Sept. 14, 1875	251	78	8	448
Bottle-stoppers, Making wire fastenings for.....	H. W. Yerington.....	164,245	June 8, 1875	381	130	7	993
Bottle-stoppers, Making wire fastenings for.....	H. W. Yerington.....	164,246	June 8, 1875	383	130	7	994
Bottle, Toilet-powder.....	C. F. Williams and J. F. Hillhouse.....	167,378	Aug. 31, 1875	1167	368	8	397
Bottle-washing apparatus.....	F. Schlich and J. Koster.....	162,771	May 4, 1875	34	11	7	751
Bottles, Machine for applying wire ears to.....	A. de Mestre.....	166,077	July 27, 1875	936	289	8	173
Bottles, Mold for manufacturing.....	P. W. Reid.....	169,038	Oct. 19, 1875	691	227	8	677
Bottling aerated liquids, Machine for.....	H. E. Clinton.....	160,394	Mar. 2, 1875	119	44	7	366
Bottling-apparatus.....	L. B. Wilson.....	168,547	Oct. 5, 1875	211	69	8	594
Bottling beer and similar liquids, Cork for.....	C. Pfannenstiehl.....	171,315	Dec. 21, 1875	650	.....	8	1051
Bottling-machine.....	F. T. Ryberg.....	160,720	Mar. 9, 1875	427	142	7	418
Bottling mineral waters, &c.....	J. B. Neubrough.....	171,240	Dec. 21, 1875	584	192	8	1043
Bow and arrow.....	C. F. Teed.....	171,192	Dec. 14, 1875	510	168	8	1025
Bowling-alley.....	A. A. Hamlin.....	160,900	Mar. 16, 1875	607	198	7	449
Box:							
See Axle-box.	Hat-box.						
Ballot-box.	Hat and fur box.						
Butter-box.	Ice-box.						
Cap-box.	Insect-powder box.						
Carriage-wheel box.	Journal-box.						
Cartridge-box.	Letter-box.						
Cigar-box.	Lubricating-box.						
Coal-box.	Match-box.						
Corset-box.	Miter-box.						
Dinner-box.	Music-box.						
Dredge-box.	Musical-merchandise box.						
Dredging-box.	Packing-box.						
Egg-box.	Packingandshowing box.						
Egg and fruit box.	Paper box.						
Fare-box.	Pepper-box.						
Farm-box.	Piston-rod-stuffing box.						
Feed-box.	Pump-box.						
Finger-ring box.	Safe-deposit box.						
Fire-box.	Salt and pepper box.						
Fire-alarm box.	Sample-box.						
Fire-alarm-signal box.	Sheep scratch-box.						
Fracture-box.	Sheet-metal box.						
Gas-purifying box.	Shuttle-box.						

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Box—Continued.							
See Spice-box.	Tree-box.						
Stuffing-box.	Valve-box box.						
Telegraphic-signal box.	Wagon-box.						
Tobacco-box.	Watchmaker's box.						
Toy money-box.	Wooden box.						
Transplanting-box.							
Box-dressing machine	J. W. Bowers	165,784	July 20, 1875	638	196	8	121
Box-fastening	E. W. Bridge	166,183	Aug. 3, 1875	3	1	8	199
Box-girder, Compound	A. Hay	164,734	June 22, 1875	853	277	7	1074
Box-lid fastening	J. L. Stevens	170,410	Nov. 23, 1875	1073	338	8	899
Box-machine	J. Kisor	168,752	Oct. 11, 1875	420	137	8	632
Box-machine	S. K., G. W., and J. A. Paige	163,237	May 11, 1875	480	156	7	817
Box-machine and box	J. W. and C. M. Hyatt	160,199	Feb. 23, 1875	917	302	7	331
Box-making machine	J. W. Bowers	164,798	June 22, 1875	908	295	7	1081
Box-making machine	E. James	170,859	Dec. 7, 1875	180	61	8	975
Box-making machine	J. Kisor	163,788	May 25, 1875	1007	320	7	910
Box-nailing machine	J. H. Foster and D. O. Ladd	164,287	June 8, 1875	423	141	7	999
Box-nailing machinery	A. E. White	161,650	Apr. 6, 1875	54	20	7	577
Box-stuff, Matching-machine for	G. T. Riddle	170,114	Nov. 16, 1875	781	248	8	852
Box-trimming machine	A. Stearns	167,583	Sept. 7, 1875	180	56	8	431
Box-trimming machinery	C. Bopp	170,046	Nov. 16, 1875	714	227	8	843
Boxes, Corner-joint for	G. S. Stearns	171,326	Dec. 21, 1875	659	217	8	1053
Boxes, Spring-catch for	L. Messer	166,400	Aug. 3, 1875	202	60	8	237
Brace:							
See Body-brace.	Broom-brace.						
Braces, Back and shoulder	H. R. Allen	170,655	Dec. 7, 1875	1	1	8	951
Braces, Hip and thigh	H. R. Allen	170,656	Dec. 7, 1875	2	1	8	951
Bracelet	E. F. Presbrey	159,214	Jan. 26, 1875	843	276	7	162
Bracelet	J. N. Thomson	168,855	Oct. 19, 1875	521	171	8	654
Bracelet	J. N. Thomson	169,929	Nov. 16, 1875	617	191	8	830
Bracelet	C. Wills	164,118	June 8, 1875	269	92	7	978
Bracelet-click	J. S. Carrow	169,775	Nov. 9, 1875	459	145	8	802
Bracket:							
See Curtain-fixture bracket.	Shelf-supporting bracket.						
Curtain-roller bracket.	Shingling-bracket.						
Flower-bracket.	Staging-bracket.						
Flower-pot bracket.	Stove-bracket.						
Lamp-bracket.	Toilet-bracket.						
Scaffolding-bracket.							
Bracket-stand	A. B. Denison	165,549	July 13, 1875	412	124	8	73
Braid, Sewing straw	W. F. Sprague	162,426	Apr. 20, 1875	780	253	7	690
Braiding-machine	F. W. Huppelsberg	160,198	Feb. 23, 1875	916	{ 301 302 }	{ 7 7 }	{ 330 330 }
Brake:							
See Air-brake.	Steam-brake.						
Car-brake.	Steam and air brake.						
Elevator-brake.	Vehicle-brake.						
Friction power-brake.	Wagon-brake.						
Sled-brake.							
Brake-machinery	C. Kahler	160,202	Feb. 23, 1875	920	303	7	331
Brake-pipe coupling, Vacuum	G. Westinghouse, jr.	166,489	Aug. 10, 1875	306	92	8	249
Brake-shoe	W. Robinson, jr.	165,872	July 20, 1875	730	223	8	133
Bread-cutter	M. Walsh and M. Ahearn	171,072	Dec. 14, 1875	393	130	8	1010
Bread-slicer	W. A. Brown	158,827	Jan. 19, 1875	460	154	7	103
Breast-cup	T. E. Daniels	166,686	Aug. 17, 1875	495	151	8	286
Breast-strap slide	T. C. Crenshaw	165,214	July 6, 1875	70	20	8	18
Breeching attachment	T. S. Hanchett	161,408	Mar. 30, 1875	1107	358	7	532
Brewer's mash-machine	J. Schafhaus	161,708	Apr. 6, 1875	99	35	7	583
Brewer's use, Washing-machine for	F. Cramme	164,906	June 29, 1875	1033	333	7	1104
Brewery cooling-floor	A. Brandt	160,077	Feb. 23, 1875	817	268	7	316
Brewing beer	J. and J. Stuber	159,716	Feb. 9, 1875	447	.....	7	255
Brewing, Process of	E. H. Hiegand	163,827	May 25, 1875	1041	330	7	915
Brick, Air-dried	J. Wurzner	165,649	July 13, 1875	507	.....	8	87
Brick and soap press	J. H. Hearn	164,997	June 29, 1875	1111	358	7	1114
Brick and tile machine	C. D. Wrightington	163,432	May 18, 1875	675	216	7	859
Brick compound, Fire	H. M. Thompson	162,123	Apr. 13, 1875	479	.....	7	645
Brick-drier	E. F. Andrews	170,928	Dec. 7, 1875	241	82	8	982
Brick, &c., drying and burning	A. Morand	168,765	Oct. 11, 1875	430	.....	8	634
Brick-dusting machine	J. N. Kerper	159,934	Feb. 16, 1875	668	221	7	889
Brick for constructing retorts	M. Foster	167,831	Sept. 21, 1875	430	137	8	482
Brick for furnaces, Fire	F. Strattner	164,494	June 15, 1875	630	203	7	1034
Brick for paving, Prepared	B. A. Berryman	162,885	May 4, 1875	134	.....	7	765
Brick-kiln	H. W. Adams, jr.	170,148	Nov. 23, 1875	838	263	8	867
Brick-kiln	W. Bull	159,072	Jan. 26, 1875	712	{ 234 235 }	{ 7 7 }	{ 144 144 }
Brick-kiln	J. G. Eberhart	165,663	July 20, 1875	532	162	8	106
Brick-kiln	H. B. Evans and E. G. Kemper	169,684	Nov. 9, 1875	362	114	8	790
Brick-kiln	W. L. Gregg	159,091	Jan. 26, 1875	729	241	7	146
Brick-kiln	D. P. Guise	161,027	Mar. 23, 1875	728	239	7	475
Brick-kiln	N. B. Heafer	162,818	May 4, 1875	75	24	7	757
Brick-kiln	R. F. Marshall	160,927	Mar. 10, 1875	631	206	7	452
Brick-kiln	A. Morand	171,627	Dec. 28, 1875	970	314	8	1104
Brick-kiln	P. E. Smith	162,425	Apr. 20, 1875	779	253	7	690
Brick-kiln	W. N. Weidner	170,421	Nov. 23, 1875	1083	341	8	901
Brick kiln, Fire	W. T. Christy	171,600	Dec. 28, 1875	929	304	8	1098
Brick-kiln furnace	W. S. Colwell	166,749	Aug. 17, 1875	555	170	8	294
Brick-kiln furnace	W. S. Colwell	167,826	Sept. 21, 1875	425	135	8	482
Brick-kiln furnace	W. S. Colwell	168,617	Oct. 11, 1875	298	97	8	614
Brick-laying machine	C. Franke	158,838	Jan. 19, 1875	469	158	7	105
Brick-machine	E. F. Andrews	158,453	Jan. 5, 1875	86	30, 31	7	21
Brick-machine	G. C. Bovey	159,634	Feb. 9, 1875	367	122	7	243
Brick-machine	T. H. Burrledge	171,095	Dec. 14, 1875	415	138	8	1013
Brick-machine	J. K. Caldwell	163,299	May 18, 1875	558	179	7	843

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Brick-machine	J. H. Clark	162,030	Apr. 13, 1875	390	131	7	634
Brick-machine	J. Crabtree and W. H. Melcher	170,526	Nov. 30, 1875	1194	377	8	925
Brick-machine	J. P. Closs	168,724	Oct. 11, 1875	391	128	8	628
Brick-machine	E. Deshler	160,310	Mar. 2, 1875	47	17, 18	7	355
Brick-machine	C. N. Fisher	169,428	Nov. 2, 1875	99	31	8	748
Brick-machine	W. E. Gard	158,584	Jan. 12, 1875	222	75	7	55
Brick-machine	W. A. Graham	171,118	Dec. 14, 1875	439	145	8	1016
Brick-machine	I. Gregg, jr.	162,058	Apr. 13, 1875	417	139	7	638
Brick-machine	W. L. Gregg	168,564	Oct. 11, 1875	248	81, 82	8	607
Brick-machine	A. J. Hoyt	163,494	May 18, 1875	733	{ 234 235 }	7	867
Brick-machine	T. T. Joyce	159,931	Feb. 16, 1875	664	220	7	288
Brick-machine	S. Martin	168,911	Oct. 19, 1875	576	190	8	662
Brick-machine	J. M. Mitchell and L. B. Kennedy	170,879	Dec. 7, 1875	196	68	8	977
Brick-machine	A. Morand	166,544	Aug. 10, 1875	348	107	8	256
Brick-machine	A. Morand	170,761	Dec. 7, 1875	100	31	8	963
Brick-machine	L. Patterson	168,667	Oct. 11, 1875	345	112	8	621
Brick-machine	H. Lea	169,197	Oct. 26, 1875	854	278	8	709
Brick-machine	E. L. Wagner	171,453	Dec. 21, 1875	771	{ 254 255 }	8	1068
Brick-machine	W. S. Wallace	161,580	Mar. 30, 1875	1272	409	7	553
Brick-machine	J. Whiteley	162,783	May 4, 1875	45	14	7	753
Brick-machine	C. H. Williams and W. W. Allport	164,243	June 8, 1875	379	129	7	993
Brick-machine	G. R. Wilson and G. Smithson	167,720	Sept. 14, 1875	311	99	8	457
Brick-machine	D. Wood	167,147	Aug. 24, 1875	943	294	8	358
Brick, Manufacture of fire	J. P. Alexander	170,502	Nov. 30, 1875	1174	.....	8	922
Brick-mold	E. C. Singer	164,108	June 8, 1875	261	89	7	977
Brick mold, Angle	J. H. Mathes	160,832	Mar. 16, 1875	553	179	7	442
Brick-mold-sanding machine	D. O. Loy	160,532	Mar. 9, 1875	262	89	7	395
Brick press and former	A. J. Haws	168,743	Oct. 11, 1875	412	134	8	631
Brick pressing or molding apparatus	F. Durand and E. L. Marais	168,730	Oct. 11, 1875	398	130	8	629
Brick, Process in the manufacture of fire	J. P. Alexander	165,049	June 29, 1875	1154	.....	7	1120
Bridge	P. M. Fulton	159,315	Feb. 2, 1875	73	24	7	193
Bridge, Draw	W. M. Black	166,959	Aug. 24, 1875	762	236	8	333
Bridge, Draw	M. Vincent	170,650	Nov. 30, 1875	1313	415	8	940
Bridge, Extensible safety	W. Campbell	163,048	May 11, 1875	309	99	7	795
Bridge fastening, Draw	C. J. Atkins	164,708	June 22, 1875	832	271	7	1071
Bridge, Floating draw	H. F., J. M., and W. B. Rice	162,768	May 4, 1875	29	10	7	751
Bridge gate, Draw	O. Esche	171,003	Dec. 14, 1875	333	111	8	1002
Bridge, Iron	J. B. Eads	162,045	Apr. 13, 1875	407	136	7	636
Bridge, Iron	J. B. Eads	162,357	Apr. 20, 1875	710	{ 231 232 }	7	681
Bridge, Iron	E. I. Farnsworth	159,084	Jan. 26, 1875	725	239	7	146
Bridge, Iron truss	F. Schmemann	171,323	Dec. 21, 1875	656	216	8	1052
Bridge, Lift	A. J. Post	162,576	Apr. 27, 1875	934	300	7	718
Bridge, Metallic arch	J. B. Eads	163,854	June 1, 1875	17	5	7	933
Bridge, Metallic arched truss	J. B. Eads	169,791	Nov. 9, 1875	478	151	8	805
Bridge, Metallic truss	J. Valleley	166,042	July 27, 1875	903	279	8	169
Bridge, Truss	J. Wall	164,349	June 8, 1875	486	160	7	1007
Bridge, Truss	H. Barton	164,511	June 15, 1875	644	208	7	1036
Bridge, Truss	W. M. Black	166,960	Aug. 24, 1875	763	236	8	333
Bridges, Compound iron column for	A. E. Brown	164,137	June 8, 1875	284	97	7	980
Bridges, Compression member of	A. E. Brown	164,135	June 8, 1875	282	96	7	980
Bridges, Compression member of	A. E. Brown	164,136	June 8, 1875	283	97	7	980
Bridges, Construction of iron truss	C. Kellogg	162,077	Apr. 13, 1875	433	144	7	640
Bridges, Cover for the upper chords of	M. Lassig	168,260	Sept. 28, 1875	841	269	8	548
Bridges, Hydrostatic compensatory apparatus for metallic	W. R. King	166,930	Aug. 24, 1875	734	227	8	329
Bridges, Joint for iron truss	E. S. Shaw	159,046	Jan. 26, 1875	690	228	7	141
Bridges, Metallic post or girder for truss	F. C. Lowthrop	159,194	Jan. 26, 1875	823	271	7	159
Bridges, Splice-plate for metallic truss	W. Katte	166,387	Aug. 3, 1875	190	57	8	225
Bridle	W. S. Mitchell	158,857	Jan. 19, 1875	485	163	7	107
Bridle-bit	J. R. Bellinger, L. M. Bolles, and W. J. Fryer, jr.	169,403	Nov. 2, 1875	77	23	8	745
Bridle-bit	A. Buermann	162,348	Apr. 20, 1875	702	228	7	681
Bridle-bit	P. Casey	159,077	Jan. 26, 1875	719	237	7	145
Bridle-bit	L. Hartson and J. W. Bronson	164,554	June 15, 1875	680	221	7	1041
Bridle-bit	J. P. Hisley	160,772	Mar. 16, 1875	500	162	7	435
Bridle-bit	S. H. Holm	167,248	Aug. 31, 1875	1055	328	8	380
Bridle-bit	L. F. Judd	166,615	Aug. 10, 1875	411	126	8	265
Bridle-bit	H. Lockard	162,081	Apr. 13, 1875	436	145	7	640
Bridle-bit	H. Lockard and T. Agens	165,678	July 20, 1875	545	166	8	107
Bridle-bit	B. Miller	169,718	Nov. 9, 1875	398	125	8	795
Bridle-bit	J. G. Peterson	164,590	June 15, 1875	710	231	7	1046
Bridle-bit	W. A. Pierson	165,863	July 20, 1875	725	221	8	132
Bridle-bit	J. Stanley	171,587	Dec. 28, 1875	917	301	8	1097
Bridle-bit	N. P. Stevens	159,527	Feb. 9, 1875	291	94	7	232
Bridle-bit	J. Thornton	168,857	Oct. 19, 1875	523	171	8	654
Bridle-blinds, Winker-strap for	E. Easton and J. Scott	168,241	Sept. 28, 1875	822	261	8	545
Bridle-winker	P. McFadden	164,318	June 8, 1875	454	150	7	1003
Bridle-winker	J. D. Reid	161,900	Apr. 13, 1875	285	96	7	621
Bristles, Machine for combing dry	W. F. Parks and L. F. Lannay	159,209	Jan. 26, 1875	836	274	7	161
Broiler	G. H. Bliss	161,856	Apr. 13, 1875	242	81	7	615
Broiler	H. J. Chamberlin	162,152	Apr. 20, 1875	520	171	7	658
Broiler	G. D. Dudley	161,601	Apr. 6, 1875	12	5	7	570
Broiler	G. D. Dudley	161,937	Apr. 13, 1875	319	107	7	625
Bronze-alloy	S. Doubleday	160,885	Mar. 16, 1875	595	.....	7	448
Bronze-casting	G. R. Meneely	165,353	July 6, 1875	193	57	8	35
Bronze dressing, Leather	E. H. Tennessy	164,678	June 22, 1875	799	.....	7	1066
Bronze-liquid	R. C. Dehmler	161,148	Mar. 23, 1875	843	.....	7	489
Bronzing-machine	W. J. Barber	163,722	May 25, 1875	954	302	7	902
Bronzing-machine	H. Battermann	161,734	Apr. 6, 1875	125	44	7	587
Bronzing-machine	W. H. Forbes and N. Hallock	162,161	Apr. 20, 1875	530	174	7	659
Bronzing-machine	D. A. Wagner	166,829	Aug. 17, 1875	621	193	8	305

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Brooch-pins, Attaching.....	C. B. Duesbury.....	166,754	Aug. 17, 1875	559	171	8	295
Broom.....	R. H. Eastburn.....	170,071	Nov. 16, 1875	745	235	8	847
Broom.....	W. S. Hancock.....	159,409	Feb. 2, 1875	152	51	7	205
Broom.....	G. R. Swingle.....	159,861	Feb. 16, 1875	600	199	7	280
Broom-bag.....	E. D. Bronson.....	160,567	Mar. 9, 1875	292	99	7	399
Broom-brace.....	J. B. Sharp.....	164,490	June 15, 1875	626	202	7	1034
Broom, Corn.....	A. Maurer.....	165,601	July 13, 1875	457	139	8	80
Broom-corn-sizing machine.....	A. Walrath.....	165,458	July 13, 1875	328	96	8	60
Broom-handle socket.....	J. H. Pitts.....	163,245	May 11, 1875	488	159	7	818
Broom-hanger.....	J. Cain.....	162,622	Apr. 27, 1875	971	312	7	723
Broom-head.....	E. J. Merick.....	159,954	Feb. 16, 1875	685	227	7	291
Broom-head, Portable.....	E. J. Merick.....	162,490	Apr. 27, 1875	862	277	7	709
Broom-holder.....	G. W. Hunter.....	164,088	June 8, 1875	243	83	7	975
Broom holding and displaying device.....	J. W. Yewell.....	164,358	June 8, 1875	495	163	7	1008
Broom machine, Corn.....	J. D. Blood and G. Topping.....	166,065	July 27, 1875	924	286	8	172
Broom-machine mandrel.....	H. Anderson.....	169,330	Nov. 2, 1875	4	1	8	735
Broom-making machinery.....	W. R. Allen.....	167,051	Aug. 24, 1875	850	264	8	345
Broom-press.....	A. Boyer.....	162,997	May 11, 1875	261	84, 85	7	789
Broom-winding machine.....	A. Walrath and E. D. Bronson.....	168,814	Oct. 11, 1875	473	154	8	639
Brush.....	W. A. Albaugh and J. Toole.....	165,195	July 6, 1875	53	15	8	16
Brush.....	J. Earnshaw.....	165,719	July 20, 1875	582	178	8	113
Brush.....	M. E. Hawkins.....	166,607	Aug. 10, 1875	405	125	8	265
Brush.....	A. A. Hussey.....	158,943	Jan. 19, 1875	569	189	7	117
Brush.....	O. Jenness.....	165,236	July 6, 1875	87	26	8	21
Brush.....	M. Leiner.....	166,789	Aug. 17, 1875	589	181	8	300
Brush.....	W. A. Megraw.....	160,933	Mar. 16, 1875	637	208	7	453
Brush.....	S. A. Miles.....	166,542	Aug. 10, 1875	347	107	8	256
Brush and mop holder.....	J. O. Montignani.....	158,508	Jan. 5, 1875	140	47	7	28
Brush and mop holding device.....	R. C. May.....	161,805	Apr. 6, 1875	184	62	7	595
Brush attachment, Fly.....	G. S. Beckman.....	160,141	Feb. 23, 1875	869	287	7	324
Brush, Automatic fly.....	S. L. Long.....	162,482	Apr. 27, 1875	856	275	7	708
Brush-back.....	H. Holmes.....	162,749	May 4, 1875	13	5	7	748
Brush-binder.....	J. Blair.....	165,202	July 6, 1875	60	17	8	17
Brush-block-punching machine.....	H. Holmes.....	162,750	May 4, 1875	13	5	7	748
Brush, Dust.....	H. B. Conant.....	166,261	Aug. 3, 1875	69	22	8	209
Brush, Dust.....	L. A. Stall.....	171,488	Dec. 23, 1875	824	271	8	1084
Brush, Feather dusting.....	A. D. Griswold.....	158,412	Jan. 5, 1875	54	19	7	16
Brush, Fountain.....	F. McDaniel.....	164,853	June 22, 1875	961	311	7	1087
Brush, Fountain.....	R. S. Van Zandt.....	164,498	June 15, 1875	633	204	7	1035
Brush, Hair.....	C. E. Teets.....	168,428	Oct. 5, 1875	96	33	8	579
Brush handle, Paint.....	G. W. Schermerhorn.....	168,187	Sept. 28, 1875	777	347	8	539
Brush-handles, Device for attaching.....	H. P. Hood and G. W. Joseph.....	165,582	July 13, 1875	440	133	8	78
Brush-handles, Machine for forming.....	W. Wendell.....	170,320	Nov. 23, 1875	992	311	8	888
Brush-handles, Securing.....	J. L. Whiting.....	170,500	Nov. 30, 1875	1172	370	8	922
Brush-holder.....	I. Heller.....	171,128	Dec. 14, 1875	451	148	8	1018
Brush-holder.....	W. P. Shank.....	163,536	May 18, 1875	778	247	7	872
Brush, Paint.....	C. R. Baker.....	168,363	Oct. 5, 1875	40	15	8	570
Brush, Paint.....	G. P. Hunt.....	169,906	Nov. 16, 1875	596	185	8	827
Brush, Paint.....	G. A. Schuster and J. L. Driscoll.....	166,723	Aug. 17, 1875	531	163	8	291
Brush, Rotary hair.....	W. G. Nutsford and W. Glasgow.....	166,027	July 27, 1875	890	275	8	167
Brush, Scrubbing.....	M. Biglin.....	158,459	Jan. 5, 1875	94	22	7	22
Brush, Shoe.....	I. and J. A. Joseph.....	160,104	Feb. 23, 1875	838	276	7	319
Brush, Shoe.....	A. McElrath.....	160,450	Mar. 2, 1875	176	61	7	373
Brush, Tooth.....	S. J., and A. Bidwell.....	163,043	May 11, 1875	305	98	7	794
Brush, Tooth.....	C. Bulkley.....	158,673	Jan. 12, 1875	301	102	7	66
Brush, Tooth.....	S. Stevens.....	160,552	Mar. 9, 1875	279	95	7	398
Brush, Tooth.....	J. Wayne.....	164,353	June 8, 1875	491	161	7	1007
Brush, Water.....	H. T. Helmbold.....	168,093	Sept. 28, 1875	688	217	8	527
Brushes, Mold for arranging bristles for.....	C. R. Baker.....	164,412	June 15, 1875	559	182	7	1025
Buck-board.....	C. Neligh, sr.....	171,412	Dec. 21, 1875	739	243	8	1064
Bucket, Dinner.....	F. E. Heinig.....	163,654	May 25, 1875	898	285	7	895
Bucket-ear.....	J. D. Field.....	160,818	Mar. 16, 1875	542	176	7	440
Bucket, Earthen.....	W. F. Towns.....	160,486	Mar. 2, 1875	208	71	7	378
Bucket, Sheet-metal.....	C. Hoff.....	160,674	Mar. 9, 1875	382	129	7	413
Buckle.....	J. Adair.....	158,350	Jan. 5, 1875	1	1	7	9
Buckle.....	W. E. Aston.....	171,543	Dec. 28, 1875	877	287	8	1091
Buckle.....	W. C. Downs.....	168,238	Sept. 23, 1875	820	261	8	545
Buckle.....	A. Dyke.....	170,831	Dec. 7, 1875	157	52	8	971
Buckle.....	M. Hester.....	163,195	May 11, 1875	446	144	7	812
Buckle.....	W. Himelrigh and J. Smith.....	163,070	May 11, 1875	330	107	7	798
Buckle.....	J. Hudson.....	160,912	Mar. 16, 1875	615	201	7	450
Buckle.....	W. Lesser.....	165,422	July 13, 1875	291	86	8	55
Buckle.....	J. Lines.....	163,500	May 18, 1875	744	237	7	867
Buckle.....	L. Loeser.....	166,880	Aug. 17, 1875	677	209	8	312
Buckle.....	S. Porter.....	170,109	Nov. 16, 1875	777	246	8	851
Buckle.....	D. L. Smith.....	167,947	Sept. 21, 1875	525	168	8	497
Buckle.....	S. Wales.....	167,282	Aug. 31, 1875	1080	337	8	384
Buckle.....	P. Whitney.....	170,037	Nov. 16, 1875	705	223	8	842
Buckle.....	W. H. Williamson.....	165,905	July 20, 1875	762	233	8	137
Buckle.....	T. L. Wiswell.....	159,009	Jan. 19, 1875	633	210	7	126
Buckle.....	B. C. Young.....	162,211	Apr. 20, 1875	576	189	7	665
Buckle, Harness.....	I. L. Landis.....	165,936	July 27, 1875	807	247	8	155
Buckle, Harness.....	T. J. Magruder.....	167,917	Sept. 21, 1875	503	160	8	493
Buckle, Harness.....	J. C. Smither.....	169,200	Oct. 26, 1875	856	279	8	709
Buckle, Lever.....	S. Wales.....	167,041	Aug. 24, 1875	838	261	8	343
Buckle-loop.....	F. A. Neider.....	167,014	Aug. 24, 1875	819	254	8	341
Buckle-making machine.....	H. C. Hickox.....	167,245	Aug. 31, 1875	1053	327	8	380
Buckle or fastener.....	S. T. Lockwood and J. M. Ware.....	163,596	May 25, 1875	848	268	7	888
Buckle, Reversible lock.....	L. Lewine.....	170,004	Nov. 16, 1875	678	213	8	838
Buckle, Suspension.....	E. J. Fraser.....	158,367	Jan. 5, 1875	15	5	7	11
Buckle, Trace.....	M. T. Burke.....	169,519	Nov. 2, 1875	177	59	8	759
Buckle, Trace.....	A. G. Dodds.....	165,551	July 13, 1875	414	124	8	73
Buckle, Trace.....	M. T. Hayes.....	165,230	July 6, 1875	81	24	8	20
Buckle, Trace.....	J. P. Hisley.....	160,909	Mar. 16, 1875	613	200	7	450
Buckle, Trace.....	B. F. Winey.....	164,501	June 15, 1875	636	206	7	1035

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Buckle, Tug	J. Weston	159,534	Feb. 9, 1875	296	95	7	232
Buffer-stem	P. W. Pratt	170,190	Nov. 23, 1875	877	274	8	872
Bug destroyer, Chinch	J. Cochran, jr.	161,099	Mar. 23, 1875	798	262	7	484
Bug destroyer, Potato	I. W. Griscom	171,011	Dec. 14, 1875	339	113	8	1003
Bug-destroying machine, Potato	T. Job	164,376	June 15, 1875	523	172	7	1021
Bug gatherer, Chinch	E. H. Marsh	160,606	Mar. 9, 1875	326	110	7	404
Bug trap, Bed	J. L. Hawkins	161,032	Mar. 23, 1875	731	241	7	475
Bug trap, Bed	E. G. Watkins	168,306	Sept. 28, 1875	880	281	8	554
Bugs, Implement for destroying chinch	H. F. Rice	166,720	Aug. 17, 1875	528	162	8	290
Bugs, Machine for catching Colorado	J. Ney, jr.	169,656	Nov. 9, 1875	335	106	8	786
Bugs, Machine for catching potato	C. E. Mathewson and H. T. Mills	165,243	July 6, 1875	94	28	8	22
Bugs on Plants, Device for destroying	R. M. Clark	166,260	Aug. 3, 1875	69	21	8	209
Buggy-body, Swinging	H. M. Carpenter and E. Grimshaw	163,454	May 18, 1875	695	222	7	862
Buggy-top	C. Miller	162,089	Apr. 13, 1875	442	147	7	641
Building-block	B. A. Berryman	170,331	Nov. 23, 1875	1003	314	8	890
Building materials, Machine for elevating	G. H. Kanmacher	168,749	Oct. 11, 1875	417	136	8	631
Building purposes, Application of marble to	P. J. Hardy	163,990	June 1, 1875	127	43	7	948
Building purposes, Application of stone to	P. J. Hardy	163,992	June 1, 1875	128	44, 45	7	948
Building purposes, Composition for	A. T. Lyon	164,850	June 22, 1875	959		7	1087
Buildings, Application of stone to walls of	P. J. Hardy	163,989	June 1, 1875	126	43	7	948
Buildings, Bird-guard for	H. T. Blodget	168,446	Oct. 5, 1875	111	38	8	581
Buildings, Construction of fire-proof	T. Sharp	169,852	Nov. 9, 1875	535	167	8	811
Buildings, Covering for walls of	P. J. Hardy	163,991	June 1, 1875	128	43	7	948
Buildings, Metallic frame for	E. Gruwe	169,101	Oct. 26, 1875	773	251	8	696
Buildings, Movable front for	J. Murphy	159,203	Jan. 26, 1875	831	273	7	160
Buildings, Ventilating	L. Satterlee	169,300	Oct. 26, 1875	952	308	8	721
Bullet-patching machine	H. Borchardt	159,748	Feb. 16, 1875	496	166	7	266
Bullet-swaging device	W. D. Hillis	163,656	May 25, 1875	899	285	7	895
Bull's eye	W. W. Wilcox	162,445	Apr. 20, 1875	798	260	7	692
Bung and bush	W. Johnson	165,001	June 29, 1875	1114	359	7	1114
Bung and vent	H. B. Cornish	169,150	Oct. 26, 1875	817	265	8	703
Bung, Barrel	C. F. Norris and P. J. Hickey	165,360	July 6, 1875	198	59	8	36
Bung, Barrel	W. E. White	167,419	Sept. 7, 1875	37	11	8	411
Bung, Barrel and cask	F. W. Kuenne	166,280	Aug. 3, 1875	90	27	8	212
Bung-cutting machine	J. Bachelder	164,251	June 8, 1875	389	132	7	994
Bung-turning machine	E. Gunther	171,511	Dec. 28, 1875	849	277	8	1087
Bung-turning machine	E. Gunther	171,512	Dec. 28, 1875	851	278	8	1087
Bungs in casks, &c., Fastening for	J. Ott and J. Weller	171,161	Dec. 14, 1875	481	157	8	1022
Bureau and wash-stand, Knock-down	W. S. Moses	165,494	July 13, 1875	362	107	8	65
Bureaus, &c., Looking-glass attachment for	J. A. Knight	158,422	Jan. 5, 1875	61	21	7	17
Burglar-alarm	J. B. Allen	167,725	Sept. 14, 1875	315	100	8	458
Burglar-alarm	J. Andrews	163,960	June 1, 1875	100	34	7	945
Burglar-alarm	C. and J. Bohanon	169,137	Oct. 26, 1875	806	261	8	701
Burglar-alarm	A. A. Budd	170,705	Dec. 7, 1875	48	14	8	957
Burglar-alarm	L. F. Drake	169,788	Nov. 9, 1875	476	150	8	804
Burglar-alarm	A. Gregory	168,391	Oct. 5, 1875	64	23	8	574
Burglar-alarm	E. Hand	166,696	Aug. 17, 1875	504	154	8	287
Burglar-alarm	F. H. Hunter	163,779	May 25, 1875	1000	317	7	909
Burglar-alarm	L. M. Johnson	162,235	Apr. 20, 1875	599	196	7	668
Burglar-alarm	W. W. Kennoch and E. T. and J. F. Gilliland	162,239	Apr. 20, 1875	603	197	7	668
Burglar-alarm	M. E. Lasher	160,918	Mar. 16, 1875	621	203	7	451
Burglar-alarm	C. O. Malgren	169,821	Nov. 9, 1875	506	159	8	808
Burglar-alarm	W. A. Parker	167,559	Sept. 7, 1875	158	49	8	428
Burglar-alarm	J. Pennepacker	168,777	Oct. 11, 1875	440	143	8	635
Burglar-alarm	T. Powell	163,524	May 18, 1875	770	244	7	871
Burglar-alarm	S. Seairight	165,883	July 20, 1875	742	227	8	135
Burglar-alarm	H. A. Sherman	170,905	Dec. 7, 1875	220	76	8	980
Burglar-alarm	A. P. Silva, R. B. Merriam, and E. Sedgwick	165,691	July 20, 1875	556	170	8	109
Burglar-alarm	A. C. Taylor	158,873	Jan. 19, 1875	499	168	7	108
Burglar-alarm	J. A. Weed	164,888	June 22, 1875	998	322	7	1092
Burglar-alarm	J. A. Weed	169,214	Oct. 26, 1875	866	282	8	710
Burglar-alarm	C. H. Williams	165,967	July 27, 1875	834	257	8	159
Burglar-alarm and annunciator, Electric	J. T. Bedford	169,077	Oct. 26, 1875	745	243	8	693
Burglar-alarm and door-fastener, Combined	G. Hancock	170,555	Nov. 30, 1875	1223	385	8	928
Burglar-alarm and door-fastener, Combined	W. S. Watkins	168,200	Sept. 28, 1875	790	251	8	541
Burglar-alarm and door-fastener, Combined	J. J. Woolsey	169,220	Oct. 26, 1875	878	285	8	712
Burglar-alarm and indicator, Combined	J. Thorman	171,065	Dec. 14, 1875	388	128	8	1009
Burglar-alarm, Circuit-closer for electrical	L. Finch	168,470	Oct. 5, 1875	133	45	8	584
Burglar-alarm, Electric	H. E. Walter	159,369	Feb. 2, 1875	115	39	7	200
Burglar-alarm, Electro-magnetic	R. J. Brittain	158,897	Jan. 19, 1875	525	176	7	112
Burial-case	D. W. Hunt	167,451	Sept. 7, 1875	63	19	8	415
Burial-case	G. Van Winkle	158,654	Jan. 12, 1875	287	96	7	64
Burial-case, Glass	S. H. Brooks	168,606	Oct. 11, 1875	288	94	8	612
Burial-case, Metallic	H. M. Gray	169,436	Nov. 2, 1875	106	33	8	749
Burial-casket	W. G., sr., and W. G. Algeo, jr.	159,059	Jan. 26, 1875	702	231	7	142
Burial-casket	O. M. Allen	161,852	Apr. 13, 1875	239	80	7	615
Burial-casket case	J. S. Waterman	164,619	June 15, 1875	734	240	7	1049
Burial-caskets, Composition for coating	C. H. Mulligan	160,784	Mar. 16, 1875	514		7	436
Burial-vault	L. K. Dutton	161,673	Apr. 6, 1875	74	26	7	579
Burner, Aero-gas	J. H. Knights	169,711	Nov. 9, 1875	392	123	8	792
Burner, Argand	J. A. Bowler	159,635	Feb. 9, 1875	369	122	7	244
Burner, Argand	A. Voltair and C. E. Ball	168,946	Oct. 19, 1875	603	209	8	666
Burner, Argand gas	C. E. Ball and S. L. Wiegand	159,557	Feb. 9, 1875	312	101	7	235
Burner, Argand gas	T. Clough	158,832	Jan. 19, 1875	464	156	7	104
Burner, Argand gas	J. B. Fuller	165,321	July 6, 1875	164	50	8	31
Burner, Argand gas	J. B. Fuller	166,926	Aug. 24, 1875	730	226	8	328
Burner attachment, Lamp and gas	T. V. Keam	161,517	Mar. 30, 1875	1213	390	7	545
Burner, Coal-tar	H. A. Brooke and W. F. Wright	167,873	Sept. 21, 1875	468	148	8	488

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Burner for electrical gas-lighting.	S. Gardiner, jr.	165,090	June 29, 1875	1189	383	7	1125
Burner for heating purposes, Gas.	A. Ehret.	161,939	Apr. 13, 1875	321	108	7	625
Burner for heating purposes, Gas.	W. R. Hanks.	165,095	June 29, 1875	1198	385	7	1156
Burner for lanterns, Vapor.	F. A. Brown and A. H. Watkins.	163,634	May 25, 1875	882	278	7	893
Burner, Gas.	C. E. Ball.	161,091	Mar. 23, 1875	792	259	7	483
Burner, Gas.	A. G. Bayles.	161,735	Apr. 6, 1875	127	44	7	587
Burner, Gas.	E. Blackman.	168,554	Oct. 11, 1875	236	78	8	605
Burner, Gas.	I. Cook.	164,577	June 15, 1875	657	212	7	1038
Burner, Gas.	I. Cook.	164,528	June 15, 1875	656	213	7	1038
Burner, Gas.	E. Evans.	160,758	Mar. 16, 1875	486	158	7	433
Burner, Gas.	A. Fulton.	158,582	Jan. 12, 1875	219	74	7	55
Burner, Gas.	W. Garland.	163,007	May 11, 1875	270	87	7	790
Burner, Gas.	T. Haley.	161,028	Mar. 23, 1875	728	240	7	475
Burner, Gas.	W. J. Herriott.	163,929	June 1, 1875	76	25	7	941
Burner, Gas.	P. F. Jonté.	166,531	Aug. 10, 1875	338	103	8	255
Burner, Gas.	J. W. Lyon.	161,531	Mar. 30, 1875	1225	394	7	547
Burner, Gas.	F. H. McGeorge.	163,600	May 25, 1875	653	269	7	889
Burner, Gas.	C. D. Payne.	163,402	May 18, 1875	653	208	7	856
Burner, Gas.	A. M. Silber.	170,407	Nov. 23, 1875	1071	{ 337 } { 338 }	8	899
Burner, Gas.	G. W. Tinsley.	163,118	May 11, 1875	371	121	7	803
Burner, Gas.	T. Trudeau.	167,713	Sept. 14, 1875	305	97	8	456
Burner, Gas-generating.	R. F. Clayton.	161,327	Mar. 30, 1875	1028	334	7	521
Burner, Gasoline.	J. C. Riley.	168,783	Oct. 11, 1875	447	146	8	636
Burner, Globe.	E. Evans.	171,112	Dec. 14, 1875	429	143	8	1015
Burner, Laboratory gas.	C. D. Cheney.	161,666	Apr. 6, 1875	69	25	7	579
Burner, Lamp.	L. J. Atwood.	162,004	Apr. 13, 1875	371	124	7	632
Burner, Lamp.	L. J. Atwood.	163,439	May 18, 1875	681	217	7	860
Burner, Lamp.	A. Barker.	166,493	Aug. 10, 1875	310	93	8	250
Burner, Lamp.	J. Curzon.	160,577	Mar. 9, 1875	299	101	7	400
Burner, Lamp.	J. H. Fouch.	169,161	Oct. 26, 1875	827	268	8	704
Burner, Lamp.	J. Gleason.	158,700	Jan. 12, 1875	324	110	7	69
Burner, Lamp.	A. Kimber.	164,006	June 1, 1875	139	49	7	950
Burner, Lamp.	W. McKinley.	160,451	Mar. 2, 1875	176	61	7	374
Burner, Lamp.	H. G. Moebring.	159,701	Feb. 9, 1875	434	145	7	252
Burner, Lamp.	H. G. Moebring.	163,508	May 18, 1875	751	239	7	808
Burner, Lamp.	T. D. Parsons.	164,932	June 29, 1875	1059	341	7	1107
Burner, Lamp.	J. A. Pease.	167,017	Aug. 24, 1875	821	255	8	341
Burner, Lamp.	J. Pigot.	162,303	Apr. 20, 1875	659	215	7	676
Burner, Lamp.	G. Stobwasser.	168,295	Sept. 28, 1875	870	279	8	552
Burner, Lamp.	F. A. Taber.	171,638	Dec. 28, 1875	983	318	8	1105
Burner, Lamp.	P. S. Underhill.	167,714	Sept. 14, 1875	306	97	8	457
Burner, Lamp.	A. C. Vaughan.	159,482	Feb. 2, 1875	229	74	7	216
Burner, Lamp.	S. R. Wilmot.	166,670	Aug. 10, 1875	461	141	8	272
Burner lens-attachment, Gas.	M. C. Meigs.	159,199	Jan. 26, 1875	827	272	7	160
Burner lens-attachment, Gas.	M. C. Meigs.	169,366	Nov. 2, 1875	46	14	8	741
Burner, Liquid-fuel.	G. H. Perkins.	169,372	Nov. 2, 1875	51	15	8	741
Burner, Refuse.	I. O. Smith and P. Walker.	166,650	Aug. 10, 1875	443	137	8	270
Burner, Self-regulating gas.	D. D. McMillan.	159,108	Jan. 26, 1875	746	246	7	148
Burner sheet-metal attachment, Gas.	M. B. Dyott.	168,463	Oct. 5, 1875	127	44	8	583
Burner spring, Lamp.	W. N. Weedon.	164,622	June 15, 1875	736	241	7	1050
Burner, Vapor.	C. E. Ball.	167,150	Aug. 31, 1875	969	301	8	369
Burner, Vapor.	J. Benson.	162,016	Apr. 13, 1875	380	127	7	633
Burner, Vapor.	J. Benson.	165,468	July 13, 1875	341	100	8	62
Burner, Vapor.	A. F. Gray.	160,669	Mar. 9, 1875	379	128	7	412
Burner, Vapor.	S. S. Gray.	160,670	Mar. 9, 1875	379	128	7	412
Burner, Vapor.	S. S. Gray.	161,336	Mar. 30, 1875	1037	337	7	523
Burner, Vapor.	J. Q. Jaynes.	162,076	Apr. 13, 1875	432	144	7	640
Burner, Vapor.	C. H. Prentiss.	161,635	Apr. 6, 1875	41	15	7	575
Burner, Vapor.	C. H. Prentiss.	167,471	Sept. 7, 1875	79	25	8	417
Burner, Vapor.	J. Stever.	164,230	June 8, 1875	369	126	7	992
Burner, Waste-gas.	P. Neff.	160,785	Mar. 16, 1875	514	166	7	436
Burnisher-holder.	A. Swallow.	167,953	Sept. 21, 1875	530	169	8	498
Bustle.	R. Biering.	160,048	Feb. 23, 1875	791	261	7	313
Bustle.	R. Biering.	168,130	Sept. 28, 1875	726	{ 228 } { 229 }	8	531
Bustle.	M. K. Bortree.	164,515	June 15, 1875	647	209	7	1036
Bustle.	A. Carter.	170,710	Dec. 7, 1875	52	16	8	957
Bustle.	L. Conigisky.	159,799	Feb. 16, 1875	546	182	7	272
Bustle.	C. O. Crosby.	165,069	June 29, 1875	1173	377	7	1122
Bustle.	A. W. Thomas.	164,339	June 8, 1875	472	157	7	1005
Bustle.	A. W. Thomas.	164,340	June 8, 1875	473	157	7	1005
Butter, Apparatus for tempering.	J. C. Rorick.	166,813	Aug. 17, 1875	610	189	8	303
Butter-boxes, Preparing veneers for.	S. F. Spaulding.	164,945	June 29, 1875	1069	.....	7	1108
Butter-carrier.	B. F. Roberts.	170,770	Dec. 7, 1875	106	34	8	964
Butter-coloring compound.	J. C. Rorick.	163,610	May 25, 1875	862	.....	7	890
Butter, Method of making a substitute for.	W. E. Andrew.	166,955	Aug. 24, 1875	759	.....	8	332
Butter-package.	H. P. Adams.	170,501	Nov. 30, 1875	1173	370	8	922
Butter-package.	H. W. Campbell.	163,573	May 25, 1875	824	261	7	885
Butter-package.	A. J. Dibble.	170,242	Nov. 23, 1875	925	288	8	878
Butter-package.	A. Robinson.	169,292	Oct. 26, 1875	944	306	8	720
Butter-package.	H. R. Scott and D. W. Granger.	162,581	Apr. 27, 1875	938	301	7	719
Butter-package.	C. B. Sheldon.	166,310	Aug. 3, 1875	115	35	8	215
Butter-package.	J. C. Tilton.	163,899	June 1, 1875	52	17	7	937
Butter-package, Metallic.	M. C. Roberts and K. D. Briggs.	165,256	July 6, 1875	105	31	8	23
Butter-pail.	J. F. Crawford.	165,706	July 20, 1875	653	200	8	123
Butter-pail.	C. B. Sheldon.	161,908	Apr. 13, 1875	290	98	7	622
Butter, Preserving.	F. H. L. C. Sacc.	171,532	Dec. 28, 1875	867	.....	8	1089
Butter-preserving firkin.	J. Wilhelm.	165,288	July 6, 1875	131	40	8	29
Butter-print.	R. S. Williams.	161,464	Mar. 30, 1875	1158	373	7	538
Butter-prints, Package for.	A. Robinson.	159,845	Feb. 16, 1875	583	194	7	277
Butter-tub.	J. G. Koehler.	158,592	Jan. 12, 1875	230	77	7	56
Butter-tub fastening.	H. C. Carter.	164,717	June 22, 1875	840	273	7	1072
Butter-worker.	F. B. Aldrich.	160,293	Mar. 2, 1875	33	13	7	353
Butter-worker.	P. Embree.	167,084	Aug. 24, 1875	885	276	8	350

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Butter-worker.....	J. L. Englehart.....	160,089	Feb. 23, 1875	827	272	7	317
Butter-worker.....	M. Hutchinson.....	165,834	July 20, 1875	697	212	8	128
Butter-worker.....	W. Johnson.....	161,043	Mar. 23, 1875	741	244	7	477
Butter-worker.....	J. Macnee.....	162,758	May 4, 1875	20	7	7	749
Butter-worker.....	A. H. Reid.....	161,276	Mar. 23, 1875	966	315	7	505
Butter-worker.....	P. Rooney.....	168,418	Oct. 5, 1875	89	31	8	577
Butter-worker.....	J. C. Rorick.....	159,358	Feb. 2, 1875	107	37	7	199
Butter-worker.....	W. Ryder.....	163,533	May 18, 1875	776	246	7	872
Butter-worker.....	D. Sager.....	160,548	Mar. 9, 1875	275	94	7	397
Butter-worker.....	P. Shaw.....	167,475	Sept. 7, 1875	82	26	8	418
Butter-worker.....	P. Shaw.....	167,476	Sept. 7, 1875	83	26	8	418
Butter-worker.....	J. Thompson.....	159,000	Jan. 19, 1875	626	207	7	125
Butter-worker.....	B. Yaw and R. H. Mitchell.....	158,820	Jan. 19, 1875	452	150	7	102
Button.....	C. H. Goodwin.....	166,091	July 27, 1875	954	293	8	176
Button.....	W. Hornich.....	166,277	Aug. 3, 1875	83	26	8	211
Button-fastening.....	J. H. Harrington.....	168,638	Oct. 11, 1875	322	104	8	617
Button-fastening.....	J. H. Keating.....	160,332	Mar. 2, 1875	68	24	7	358
Button-fastening.....	P. Sues.....	165,518	July 13, 1875	383	114	8	69
Button, &c., fastening.....	F. E. Williams, H. E. Cook, and J. A. Klino.....	170,144	Nov. 16, 1875	812	256	8	856
Button-feeding device.....	Z. Gelinas.....	169,433	Nov. 3, 1875	103	32	8	749
Button for wearing-apparel.....	H. C. Griggs.....	166,097	July 27, 1875	960	295	8	177
Button-hole casing.....	V. V. Balmforth.....	160,504	Mar. 9, 1875	237	81	7	391
Button-hole cutter.....	D. A. Lehman.....	166,208	Aug. 3, 1875	23	8	8	202
Button-hole cutter.....	J. A. Sidle.....	168,794	Oct. 11, 1875	455	148	8	637
Button-hole-guide clamp.....	R. Thompson.....	159,288	Feb. 2, 1875	41	15	7	190
Button-holes in cloth, leather, &c., Machine for cutting.....	J. D. Westgate.....	163,904	June 1, 1875	56	19	7	938
Button-holes, Machine for forming imitation.....	J. Kenny.....	168,161	Sept. 28, 1875	756	239	8	536
Button-hook.....	A. Rasines and T. E. D. Power.....	167,937	Sept. 21, 1875	517	165	8	496
Button, Shirt and collar.....	J. B. Carter.....	158,624	Jan. 12, 1875	256	87	7	60
Button, Sleeve.....	G. A. Allen.....	171,254	Dec. 21, 1875	597	196	8	1045
Button, Sleeve.....	H. N. Mason and O. P. Richardson.....	159,106	Jan. 26, 1875	745	245	7	148
Button, Sleeve.....	J. G. Missimer.....	166,543	Aug. 10, 1875	348	107	8	256
Button, &c., Sleeve.....	J. B. Ulmar.....	164,112	June 8, 1875	264	90	7	978
Buttons, Manufacture of.....	R. H. Isbell.....	165,448	July 13, 1875	318	93	8	59
Buttons, Manufacture of glass.....	I. and G. Lehmann.....	171,394	Dec. 21, 1875	724	238	8	1061
Buttons, Mechanism for ornamenting.....	R. H. Isbell.....	169,268	Oct. 26, 1875	921	299	8	717
Buttons, Mode of attaching.....	S. W. Shorey.....	163,270	May 11, 1875	513	167	7	821
Buttons, &c., Setting instrument for attaching.....	D. Heaton.....	160,056	Feb. 23, 1875	799	263	7	314
Buttons, studs, &c., Setting instrument for attaching.....	D. Heaton.....	168,994	Oct. 19, 1875	648	214	8	672
Buttons to wearing-apparel, Metallic fastening for attaching.....	D. Heaton.....	168,331	Oct. 5, 1875	14	5	8	506
Buttons to wearing-apparel, Setting-instrument for attaching.....	D. Heaton.....	168,016	Sept. 21, 1875	585	188	8	506
C.							
Cabinet, Business.....	D. L. Ransom and N. R. Peugh.....	171,530	Dec. 28, 1875	866	283	8	1089
Cabinet, Kitchen.....	G. Holt.....	168,397	Oct. 5, 1875	70	25	8	575
Cabinet, Letter-file.....	W. A. Amberg.....	171,495	Dec. 28, 1875	833	273 } 274 }	8	1085
Cable and conductor, Electric.....	G. W. F. Hoogeveen.....	170,266	Nov. 23, 1875	945	295	8	891
Cable, Chain.....	C. A. Chamberlin.....	165,541	July 13, 1875	406	121	8	72
Cable-stopper.....	D. G. Thompson.....	160,363	Mar. 2, 1875	93	34	7	362
Caissons, Air-shaft for pneumatic.....	W. S. Pope.....	170,588	Nov. 30, 1875	1259	396	8	933
Cake-cutter.....	J. H. Winslow.....	164,667	June 22, 1875	790	259	7	1065
Cake-pan.....	F. G. High.....	169,264	Oct. 26, 1875	918	298	8	717
Cakes and biscuits, Steam-washer for.....	D. Carrick.....	168,138	Sept. 28, 1875	734	232	8	533
Calcimine.....	M. B. Church.....	161,591	Apr. 6, 1875	4	.....	7	569
Calcining-kiln.....	W. J. Taylor.....	166,159	July 27, 1875	1018	314	8	185
Calcium light, Apparatus for producing.....	N. H. Edgerton.....	169,244	Oct. 26, 1875	897	291	8	714
Calculating-machine.....	F. S. Baldwin.....	159,244	Feb. 2, 1875	1	1	7	185
Calculating-machine.....	E. D. Barbour.....	168,080	Sept. 28, 1875	672	214	8	525
Calculator.....	A. C. Wellman.....	165,964	July 27, 1875	831	255 } 256 }	8	159
Calculator, Mechanical.....	H. B. Martin.....	158,853	Jan. 19, 1875	481	161 } 162 }	7	106
Calendar.....	J. J. Caulon.....	160,391	Mar. 2, 1875	117	43	7	366
Calendar.....	J. Kellar.....	171,227	Dec. 21, 1875	572	188	8	1041
Calendar.....	D. J. Miller.....	166,796	Aug. 17, 1875	597	184	8	301
Calendar.....	C. Z. O'Neill.....	168,916	Oct. 19, 1875	580	191	8	663
Calendar.....	C. Z. O'Neill.....	171,308	Dec. 21, 1875	645	211	8	1051
Calendar.....	J. F. Tapley.....	167,629	Sept. 14, 1875	234	73	8	446
Calendar.....	T. J. Thorpe.....	165,769	July 20, 1875	624	192	8	119
Calendering-machine.....	W. F. and C. P. Edwards.....	162,635	Apr. 27, 1875	981	315	7	724
Caliber-gage.....	G. B. Weld.....	165,193	July 6, 1875	52	15	8	16
Calipers, dividers, &c., Combined.....	C. Caton.....	159,246	Feb. 2, 1875	6	2	7	185
Caloric-engine.....	C. Muskoo.....	170,447	Nov. 30, 1875	1122	353	8	915
Calves, &c., Anti-sucking bit for.....	J. H. Bailey.....	169,670	Nov. 9, 1875	449	110	8	788
Calves from sucking, Instrument to prevent.....	S. Tilton.....	164,665	June 22, 1875	788	258	7	1065
Calves, Weaner for.....	W. Sutton.....	158,814	Jan. 19, 1875	448	149	7	102
Cam-cylinder.....	M. J. Carney.....	163,738	May 25, 1875	969	306	7	904
Cams, Machine for turning pattern.....	W. Tucker.....	160,366	Mar. 2, 1875	95	35	7	362
Camera: See Photographic camera.							
Camera.....	E. B. Barker.....	170,465	Nov. 30, 1875	1139	359	8	917
Camera.....	S. L. Bergstresser.....	159,536	Feb. 9, 1875	297	96	7	232
Camera attachment.....	G. W. Parker.....	159,443	Feb. 2, 1875	183	62	7	210
Camera-obscura.....	T. A. Kellett.....	170,271	Nov. 23, 1875	949	297	8	882
Camera-obscura.....	G. Raphael.....	167,271	Aug. 31, 1875	1072	334	8	383
Camera-screen.....	J. F. Ryder.....	170,453	Nov. 30, 1875	1127	355	8	915
Camera-stand.....	F. M. Spencer.....	165,038	June 29, 1875	1144	369	7	1118
Cames, Device for manufacturing.....	C. C. Tracy.....	165,386	July 6, 1875	231	69, 70	8	40
Camphor, Permanent flour of.....	L. M. Phelps.....	164,478	June 15, 1875	617		7	1032

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Can:							
See Air-tight can.	Oil-tank can.						
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Fruit-can.	Paper can.						
Lubricating-can.	Preserving-can.						
Metallic can.	Sheet-metal can.						
Milk-can.	Traveling-can.						
Oil-can.							
Can	F. D. Brodhead	162, 618	Apr. 27, 1875	969	311	7	722
Can	T. J. M. Jewell	162, 478	Apr. 27, 1875	851	273	7	707
Can-opener	J. H. Murphy	159, 767	Feb. 16, 1875	513	171	7	268
Can-opener	W. D. Skidmore	167, 577	Sept. 7, 1875	173	55	8	430
Can-opener	R. Smith	169, 202	Oct. 26, 1875	858	279	8	709
Can-opener	G. L. Witsil	171, 463	Dec. 21, 1875	781	258	8	1069
Cans, Apparatus for filling, soldering, and handling	G. H. Perkins	167, 356	Aug. 31, 1875	1146	360	8	393
Canal-boats, Construction of	W. Ball	164, 709	June 22, 1875	833	271	7	1071
Canal-lock	C. G. Force, jr.	166, 695	Aug. 17, 1875	502	154	8	287
Canal-lock	T. L. Rosser	159, 280	Feb. 2, 1875	34	12	7	189
Canal-lock gate	J. E. Renk	163, 178	July 6, 1875	36	10	8	13
Candle-burner	G. Hollister	168, 333	Oct. 5, 1875	15	6	8	567
Candle-holder	H. Smith	161, 360	Mar. 30, 1875	1059	344	7	525
Candle-holder clamp	F. A. Schroeder	164, 599	June 15, 1875	718	233	7	1047
Candlestick	A. Albertson	168, 822	Oct. 19, 1875	493	161	8	651
Candlestick	J. B. Gribble	166, 274	Aug. 3, 1875	81	25	8	210
Candlestick	W. Kilburn	160, 334	Mar. 2, 1875	69	25	7	358
Candlestick	Z. I. Pratt	166, 223	Aug. 3, 1875	35	12	8	204
Candlestick	T. Swann	166, 651	Aug. 10, 1875	443	137	8	270
Candy-heater, Steam	B. and H. Stern	171, 444	Dec. 21, 1875	765	252	8	1067
Candy-mixing machine	S. F. Whitman	160, 494	Mar. 2, 1875	215	74	7	380
Candy-spinner	S. B. Hymer	165, 836	July 20, 1875	699	213	8	128
Cane	W. R. Park	169, 918	Nov. 16, 1875	609	189	8	829
Cane and umbrella combined	J. Boyd	169, 406	Nov. 2, 1875	79	24	8	745
Cane and umbrella, Combined	J. N. Colby and J. E. Coffin	167, 070	Aug. 24, 1875	869	271	8	347
Cane and umbrella combined	T. Harris and A. Kindermann	168, 092	Sept. 28, 1875	687	217	8	527
Cane and whip, Combined	O. H. Supton	169, 485	Nov. 2, 1875	147	48	8	755
Cane-gun	C. Melaye	170, 684	Dec. 7, 1875	28	9	8	954
Cane-juice, Apparatus for bleaching	J. M. Lescale	161, 527	Mar. 30, 1875	1221	393	7	546
Cane juice, Apparatus for treating	F. Randon	158, 979	Jan. 19, 1875	603	200	7	122
Canister	T. W. Burger and J. A. Graff	159, 538	Feb. 9, 1875	299	97	7	233
Canister	J. S. Field	171, 006	Dec. 14, 1875	335	111	8	1002
Canister	S. A. Hsley	163, 075	May 11, 1875	335	109	7	798
Canister	R. D. Van de Carr	159, 722	Feb. 9, 1875	452	151	7	255
Canopy-frame	R. F. S. Heath	159, 925	Feb. 16, 1875	659	218	7	288
Canvas-stretcher	J. P. Wright and D. W. Gardner	159, 012	Jan. 19, 1875	634	210	7	126
Cap	J. C. Gobell	161, 876	Apr. 13, 1875	265	89	7	618
Cap	M. Marks	166, 395	Aug. 3, 1875	197	59	8	226
Cap	M. Mendel	160, 452	Mar. 2, 1875	177	61	7	374
Cap	A. Schwarz	166, 900	Aug. 17, 1875	694	215	8	314
Cap-box	A. Huskamp	162, 387	Apr. 20, 1875	741	241	7	685
Cap, Mask	M. Marks	164, 573	June 15, 1875	695	226	7	1044
Cap, Reversible	M. Fox	164, 987	June 29, 1875	1102	355	7	1112
Cap, Traveling	A. Schwarz	160, 844	Mar. 16, 1875	561	182	7	443
Capstan	A. Russell	167, 693	Sept. 14, 1875	287	91	8	454
Car and carriage heater	J. Schmitt	163, 415	May 18, 1875	662	212	7	857
Car apron, Stock	C. R. Jones	160, 329	Mar. 2, 1875	66	23	7	358
Car axle, Railway	S. L. Harrison	160, 095	Feb. 23, 1875	832	273	7	318
Car blind and screen combined	W. H. Fletcher	165, 812	July 20, 1875	671	205	8	125
Car body, Street	J. Stephenson	161, 570	Mar. 30, 1875	1264	406	7	552
Car-brake	M. V. Aldrich and G. F. Huggins	164, 955	June 29, 1875	1077	347	7	1109
Car-brake	A. Barker	162, 340	Apr. 20, 1875	693	225	7	679
Car-brake	J. H. Betteley and T. Sharer	170, 509	Nov. 30, 1875	1182	343	8	923
Car-brake	C. C. Clark	160, 083	Feb. 23, 1875	822	270	7	317
Car-brake	S. Doubleday	166, 351	Aug. 3, 1875	150	47	8	221
Car-brake	C. Fogelberg	159, 310	Feb. 2, 1875	57	22	7	193
Car-brake	S. Gilzinger	161, 946	Apr. 13, 1875	327	109	7	626
Car-brake	S. S. Hay	160, 428	Mar. 2, 1875	153	54	7	370
Car-brake	M. M. Hiner and J. M. Fessler	160, 190	Feb. 23, 1875	910	299	7	330
Car-brake	G. M. Hopkins	160, 269	Mar. 2, 1875	12	5, 6	7	350
Car-brake	N. N. Horton	158, 493	Jan. 5, 1875	127	42, 43	7	27
Car-brake	S. G. Howe	162, 556	Apr. 27, 1875	918	294	7	715
Car-brake	J. M. Kelly	161, 884	Apr. 13, 1875	272	91	7	619
Car-brake	D. D. Kimel	162, 290	Apr. 20, 1875	648	211	7	674
Car-brake	F. L. Kirtley	164, 007	June 1, 1875	139	50	7	950
Car-brake	F. L. Kirtley	164, 009	June 1, 1875	141	50	7	950
Car-brake	P. Klunzinger	170, 379	Nov. 23, 1875	1042	327	8	895
Car-brake	C. Laarve and R. J. Wynkoop	162, 177	Apr. 20, 1875	545	179	7	661
Car-brake	S. P. Littlefield	165, 008	June 29, 1875	1120	361	7	1115
Car-brake	M. Madden	158, 426	Jan. 5, 1875	63	22	7	18
Car-brake	R. C. O'Hara	165, 250	July 6, 1875	99	29	8	22
Car-brake	J. Raddin	166, 937	Aug. 24, 1875	741	229	8	330
Car-brake	H. F., J. M., and W. B. Rice	161, 549	Mar. 30, 1875	1241	399	7	549
Car-brake	A. T. Riley	166, 811	Aug. 17, 1875	609	188	8	303
Car-brake	E. J. Roberts	160, 717	Mar. 9, 1875	423	141	7	418
Car-brake	J. N. Sawkins	168, 585	Oct. 11, 1875	269	87, 88	8	609
Car-brake	J. N. Sawkins	169, 593	Nov. 2, 1875	255	82	8	768
Car-brake	J. G. Scott	159, 612	Feb. 9, 1875	353	117	7	241
Car-brake	J. Y. Smith	163, 612	May 25, 1875	863	272	7	890
Car-brake	E. Stewart	161, 571	Mar. 30, 1875	1265	407	7	552
Car-brake	F. Svoboda and F. Luxa	160, 477	Mar. 2, 1875	197	68	7	377
Car-brake	J. E. Worthman	165, 648	July 13, 1875	505	155	8	87
Car brake and starter	W. Scott	171, 246	Dec. 21, 1875	589	193	8	1044
Car-brake, Hydraulic	W. M. Henderson	159, 511	Feb. 9, 1875	275	89	7	230
Car-brake, Hydraulic	T. McBride	166, 397	Aug. 3, 1875	198	59	8	227
Car-brake, Pneumatic	H. F. Knapp	167, 341	Aug. 31, 1875	1132	356	8	392
Car brake, Railway	G. Hiller	161, 789	Apr. 6, 1875	170	58	7	593

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Car-brake shoe	A. A. Freeman	164,081	June 8, 1875	238	82	7	974
Car-brake shoe	M. Madden	167,616	Sept. 14, 1875	223	69	8	444
Car-brake shoe	H. Stentz	170,409	Nov. 23, 1875	1073	338	8	899
Car-brake, Steam	H. H. Taylor and A. McCarnish ..	167,804	Sept. 14, 1875	391	125	8	469
Car-brake, Vacuum	F. W. Eames	167,750	Sept. 14, 1875	339	108	8	461
Car-brakes, Device for operating ..	J. Kirby	171,518	Dec. 28, 1875	855	260	8	1088
Car-brakes, Device for operating ..	S. B. Ladd	165,336	July 6, 1875	175	53	8	33
Car buffer, Railway	P. E. Drake	163,165	May 11, 1875	417	135	7	809
Car-bumper	S. Griffith and J. S. Patterson ..	167,333	Aug. 31, 1875	1126	354	8	391
Car-coach	T. H. Neal	169,569	Nov. 2, 1875	230	75	8	765
Car-cooling and ventilating device ..	J. F. Babcock	171,079	Dec. 14, 1875	400	133	8	1011
Car-coupler	I. T. Sherrill	161,165	Mar. 23, 1875	856	280	7	491
Car-coupling	J. H. Acton	165,971	July 27, 1875	838	258	8	160
Car-coupling	D. L. Adams	160,635	Mar. 9, 1875	349	118	7	408
Car-coupling	W. H. Adams	163,718	May 25, 1875	949	301	7	902
Car-coupling	A. V. Anderson	162,877	May 4, 1875	127	42	7	763
Car-coupling	J. G. Baader	162,879	May 4, 1875	128	42, 43	7	764
Car-coupling	C. F. Bake	160,294	Mar. 2, 1875	33	13	7	353
Car-coupling	L. I. Baker	161,586	Apr. 6, 1875	1	1	7	569
Car-coupling	O. T. Baker	160,295	Mar. 2, 1875	34	13	7	354
Car-coupling	O. T. Baker	162,336	Apr. 20, 1875	688	224	7	679
Car-coupling	W. E. Bell	165,529	July 13, 1875	394	118	8	70
Car-coupling	C. Billmeyer	158,892	Jan. 19, 1875	519	173	7	111
Car-coupling	H. Blackmore	164,419	June 15, 1875	566	184	7	1026
Car-coupling	W. H. Bodenhamer	164,961	June 29, 1875	1083	348	7	1110
Car-coupling	D. Bower	161,096	Mar. 23, 1875	795	261	7	483
Car-coupling	C. Bowman	164,671	June 23, 1875	793	260	7	1066
Car-coupling	W. A. Boyden	159,636	Feb. 9, 1875	370	123	7	244
Car-coupling	J. Brinkerhoff, G. B. Bennett, and L. Selder	170,226	Nov. 23, 1875	909	283	8	876
Car-coupling	A. Brown	170,227	Nov. 23, 1875	909	283	8	876
Car-coupling	P. Brown	163,633	May 25, 1875	881	278	7	893
Car-coupling	W. S. Burton	164,803	June 22, 1875	917	297	7	1081
Car-coupling	B. F. Cadenhead	160,388	Mar. 2, 1875	115	42	7	365
Car-coupling	G. W. Call	158,402	Jan. 5, 1875	45	16	7	15
Car-coupling	T. T. Carson and P. F. Whiting ..	169,891	Nov. 16, 1875	585	181	8	826
Car-coupling	H. W. Chase	171,504	Dec. 28, 1875	844	276	8	1086
Car-coupling	A. H. Clark	160,082	Feb. 23, 1875	821	270	7	317
Car-coupling	J. M. Clenn	160,162	Feb. 23, 1875	888	292	7	327
Car-coupling	W. Cline, jr	160,005	Feb. 23, 1875	755	250	7	308
Car-coupling	J. D. Conner and L. Fritz	163,746	May 25, 1875	974	308	7	905
Car-coupling	A. Coulter	158,915	Jan. 19, 1875	544	181	7	114
Car-coupling	R. A. Cowell	169,624	Nov. 9, 1875	299	97	8	7e2
Car-coupling	J. and A. E. Crane	162,903	May 9, 1875	152	49	7	767
Car-coupling	A. Cyr	169,424	Nov. 2, 1875	96	29	8	748
Car-coupling	A. Dehuff	162,537	Apr. 27, 1875	903	289	7	714
Car-coupling	J. Dinsmore	165,484	July 13, 1875	354	104	8	64
Car-coupling	W. Dorr	161,936	Apr. 13, 1875	319	106	7	625
Car-coupling	H. Dutcher	158,409	Jan. 5, 1875	51	18	7	16
Car-coupling	V. Erbach	159,399	Feb. 2, 1875	141	48	7	204
Car-coupling	L. D. Evans	163,469	May 18, 1875	708	226	7	863
Car-coupling	O. E. Ford	169,981	Nov. 16, 1875	659	206	8	836
Car-coupling	C. C. Garrett	161,405	Mar. 30, 1875	1105	358	7	531
Car-coupling	J. Graham	159,407	Feb. 2, 1875	151	51	7	295
Car-coupling	W. Green	160,822	Mar. 16, 1875	545	177	7	441
Car-coupling	W. O. Gunckel	158,935	Jan. 19, 1875	564	187	7	116
Car-coupling	J. Hardey	158,705	Jan. 12, 1875	328	112	7	70
Car-coupling	D. Harper	170,259	Nov. 23, 1875	940	293	8	881
Car-coupling	P. Harper	166,987	Aug. 24, 1875	791	244	8	337
Car-coupling	E. P. Harrington	171,280	Dec. 21, 1875	621	203	8	1048
Car-coupling	J. Harris	169,169	Oct. 26, 1875	833	271	8	705
Car-coupling	W. G. Hawkins	162,648	Apr. 27, 1875	995	319	7	725
Car-coupling	H. D. Hervey and G. H. Abrams ..	167,244	Aug. 31, 1875	1052	327	8	380
Car-coupling	P. Hien and J. Kock	165,826	July 20, 1875	689	210	8	127
Car-coupling	C. Holzner	162,067	Apr. 13, 1875	425	142	7	639
Car-coupling	W. R. Hoopes and M. S. Smith ..	160,326	Mar. 2, 1875	63	23	7	358
Car-coupling	H. C. Hunt	166,463	Aug. 10, 1875	284	85	8	247
Car-coupling	W. R. Hunter	167,767	Sept. 14, 1875	361	114	8	464
Car-coupling	J. Jacobson	164,841	June 23, 1875	952	308	7	1086
Car-coupling	C. Johnson	170,568	Nov. 30, 1875	1233	358	8	930
Car-coupling	J. H. Johnson	168,399	Oct. 5, 1875	72	25	8	575
Car-coupling	B. S. Kearney	163,931	June 1, 1875	77	26	7	941
Car-coupling	A. A. Kellogg	159,099	Jan. 26, 1875	737	244	7	148
Car-coupling	J. W. Klingler, D. Bolender, and S. E. Stern	171,289	Dec. 21, 1875	629	206	8	1049
Car-coupling	M. Kurtzman	160,779	Mar. 16, 1875	506	164	7	436
Car-coupling	G. W. Kyle	164,188	June 8, 1875	329	112	7	986
Car-coupling	G. E. Lacy	170,092	Nov. 16, 1875	763	241	8	849
Car-coupling	J. J. Lahaye	158,948	Jan. 19, 1875	574	190	7	118
Car-coupling	A. Langellier	159,425	Feb. 2, 1875	166	57	7	207
Car-coupling	W. Lannan	166,879	Aug. 17, 1875	676	209	8	312
Car-coupling	E. M. Law	165,450	July 13, 1875	321	94	8	59
Car-coupling	E. Lewis	167,454	Sept. 7, 1875	66	20	8	415
Car-coupling	J. T. A. Lewis	170,748	Dec. 7, 1875	87	28	8	962
Car-coupling	H. T. Lovell	160,057	Feb. 23, 1875	801	263	7	314
Car-coupling	J. M. Marlin	166,537	Aug. 10, 1875	343	105	8	255
Car-coupling	L. and W. Matteson	159,695	Feb. 9, 1875	429	143	7	252
Car-coupling	C. Maus	168,270	Sept. 28, 1875	850	270	8	549
Car-coupling	L. C. Mayes and J. S. Murphy ..	167,184	Aug. 31, 1875	1000	311	8	373
Car-coupling	P. F. McClure	158,597	Jan. 12, 1875	234	79	7	57
Car-coupling	D. McCurdy	158,724	Jan. 12, 1875	345	117	7	72
Car-coupling	G. H. and C. L. McGlothlen	168,041	Sept. 21, 1875	612	196	8	510
Car-coupling	R. A. McKanna	161,235	Mar. 23, 1875	946	308	7	503
Car-coupling	H. F. McKervey	169,563	Nov. 2, 1875	223	73	8	765

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Car-coupling	J. M. Nabb	164, 017	June 1, 1875	151	53	7	951
Car-coupling	P. L. Menk	158, 507	Jan. 5, 1875	139	46	7	28
Car-coupling	H. Meriam	160, 025	Feb. 23, 1875	772	255	7	310
Car-coupling	B. Mickle	166, 622	Aug. 10, 1875	419	129	8	266
Car-coupling	H. H. Miller, J. F. Rogers, and C. Force.	161, 259	Mar. 23, 1875	951	309	7	504
Car-coupling	R. Misso and B. J. Warner	164, 753	June 22, 1875	870	283	7	1076
Car-coupling	J. C. Mitchell	169, 720	Nov. 9, 1875	400	125	8	795
Car-coupling	D. C. Morris	161, 978	Apr. 13, 1875	351	118	7	629
Car-coupling	L. E. Musick	165, 857	July 20, 1875	720	219	8	131
Car-coupling	F. W. Nash	165, 751	July 20, 1875	607	187	8	117
Car-coupling	D. A. Newsom	162, 915	Oct. 9, 1875	580	191	8	663
Car-coupling	N. Nilson	164, 866	June 22, 1875	978	316	7	1089
Car-coupling	S. Ott	158, 973	Jan. 19, 1875	598	199	7	121
Car-coupling	G. R. Owen	166, 717	Aug. 17, 1875	526	161	8	290
Car-coupling	W. S. Peck	158, 517	Jan. 5, 1875	147	49	7	29
Car-coupling	G. T. Perkins	158, 731	Jan. 12, 1875	351	119	7	73
Car-coupling	W. V. Perry	163, 519	May 18, 1875	765	242	7	870
Car-coupling	S. B. Petree and A. C. Henslee ..	158, 975	Jan. 19, 1875	599	199		
Car-coupling	M. Pettengill	159, 444	Feb. 2, 1875	184	62	7	210
Car-coupling	L. W. Powls	163, 806	May 25, 1875	1025	325	7	912
Car-coupling	C. E. Ramage	165, 025	June 29, 1875	1133	366	7	1117
Car-coupling	J. Rhoads	164, 330	June 8, 1875	463	153	7	1004
Car-coupling	H. F., J. M., and W. B. Rice	162, 769	May 4, 1875	31	10	7	751
Car-coupling	W. Robinson	171, 172	Dec. 14, 1875	491	162	8	1023
Car-coupling	J. G. Rogers	164, 487	June 15, 1875	624	202	7	1034
Car-coupling	G. W. E. Row	159, 120	Jan. 26, 1875	757	249	7	150
Car-coupling	A. E. Rowley	162, 163	Apr. 13, 1875	455	151	7	643
Car-coupling	E. L. Sandford	168, 345	Oct. 5, 1875	23	9	8	568
Car-coupling	G. C. Schow	162, 197	Apr. 20, 1875	562	185	7	663
Car-coupling	W. C. Scoles	160, 473	Mar. 2, 1875	193	67	7	376
Car-coupling	H. A. Sharp	162, 772	May 4, 1875	35	11	7	751
Car-coupling	N. G. Shelley, S. P. Bozarth, and D. V. Spring.	163, 110	May 11, 1875	364	119	7	802
Car-coupling	B. B. Sherfy	159, 850	Feb. 16, 1875	589	195	7	278
Car-coupling	L. Sibley	168, 190	Sept. 28, 1875	779	248	8	540
Car-coupling	J. Singo	166, 563	Aug. 10, 1875	366	112	8	259
Car-coupling	B. J. Sirmans	159, 614	Feb. 9, 1875	354	117	7	241
Car-coupling	B. Slusser	159, 462	Feb. 2, 1875	209	67	7	213
Car-coupling	F. L. Small	169, 304	Oct. 26, 1875	956	310	8	722
Car-coupling	A. Smith	167, 477	Sept. 7, 1875	84	26	8	418
Car-coupling	J. B. Smith	169, 201	Oct. 26, 1875	857	279	8	709
Car-coupling	J. H. C. and N. B. Smith	162, 774	May 4, 1875	36	12	7	751
Car-coupling	O. C. Smith	168, 423	Oct. 5, 1875	91	32	8	578
Car-coupling	W. F. Smoot	162, 111	Apr. 13, 1875	468	155	7	644
Car-coupling	N. N. Spafford	167, 278	Aug. 31, 1875	1077	336	8	384
Car-coupling	J. B. Stamour	159, 974	Feb. 16, 1875	703	234	7	293
Car-coupling	J. B. Stamour	164, 698	June 22, 1875	822	268	7	1069
Car-coupling	W. F. Starr	159, 975	Feb. 16, 1875	704	234	7	293
Car-coupling	F. Street	158, 541	Jan. 5, 1875	165	56	7	32
Car-coupling	J. G. Stricklett	163, 420	May 18, 1875	666	213	7	857
Car-coupling	M. Sullivan	166, 157	July 27, 1875	1017	313	8	185
Car-coupling	O. L. Taylor	163, 897	June 1, 1875	50	17	7	937
Car-coupling	G. M. Thompson	159, 862	Feb. 16, 1875	600	199	7	280
Car-coupling	J. W. Treadway	158, 543	Jan. 5, 1875	166	57	7	32
Car-coupling	G. A. Tuttle and H. B. Thompson	159, 125	Jan. 26, 1875	760	250	7	151
Car-coupling	S. Ustick	164, 113	June 8, 1875	265	91	7	978
Car-coupling	S. Ustick	168, 197	Sept. 28, 1875	786	249	8	540
Car-coupling	H. B. E. Von Elsner	164, 615	June 15, 1875	731	239		
Car-coupling	L. Vote	159, 128	Jan. 26, 1875	762	251	7	151
Car-coupling	W. H. Ward	167, 043	Aug. 24, 1875	839	262	8	343
Car-coupling	T. A. Watson	170, 035	Nov. 16, 1875	703	222	8	842
Car-coupling	G. Wernimont	167, 718	Sept. 14, 1875	309	98	8	457
Car-coupling	J. West	160, 133	Feb. 23, 1875	861	285	7	323
Car-coupling	J. G. Wilson	162, 449	Apr. 20, 1875	802	261	7	693
Car-coupling	J. T. Wilson	163, 429	May 18, 1875	671	215	7	858
Car-coupling	J. B. Winters	159, 372	Feb. 2, 1875	117	41	7	200
Car-coupling	A. Wonderly	158, 662	Jan. 12, 1875	293	98	7	65
Car-coupling	J. Yeagly	161, 850	Apr. 6, 1875	230	77	7	602
Car-coupling	J. Q. A. and J. D. Young	166, 327	Aug. 3, 1875	129	40	8	217
Car-coupling	S. T. Young	162, 452	Apr. 20, 1875	806	262	7	693
Car coupling and brake	F. M. Campbell	169, 657	Nov. 16, 1875	639	199	8	833
Car-coupling, Automatic	J. Miller	164, 020	June 1, 1875	153	54	7	951
Car-coupling, heater-joint, and brake-pipe, Combined ..	F. R. Hunt	159, 679	Feb. 9, 1875	414	137	7	250
Car-coupling link	J. M. Clem	163, 743	May 25, 1875	972	308		
Car coupling, Street	H. Krüger, jr.	166, 533	Aug. 10, 1875	340	104	8	255
Car-door	R. Ferguson	164, 285	June 8, 1875	422	141	7	998
Car door, Freight	H. C. McCarty and E. Glenn	161, 345	Mar. 30, 1875	1045	340	7	524
Car door, Freight	G. W. Phelon	158, 732	Jan. 12, 1875	352	119	7	73
Car door, Grain	G. F. David and C. Wilding	167, 228	Aug. 31, 1875	1037	322	8	378
Car door, Grain	E. Fee	162, 464	Apr. 27, 1875	838	270	7	706
Car door, Grain	F. J. Kimball	165, 490	July 13, 1875	360	106	8	65
Car doors, Device for operating street	D. R. Hart	163, 770	May 25, 1875	992	315	7	908
Car doors, Mounting	G. S. Knapp	162, 930	May 4, 1875	178	59	7	770
Car doors, Operating street	D. Shield	168, 791	Oct. 11, 1875	453	148	8	636
Car, Dumping	R. Roberts	160, 122	Feb. 23, 1875	853	282	7	322
Car, Dumping	B. Slusser	166, 312	Aug. 3, 1875	117	36	8	216
Car-dumping apparatus	J. Wiland, sr.	171, 460	Dec. 21, 1875	779	257	8	1069
Car, Elevated railway	R. Stone	162, 323	Apr. 20, 1875	674	220	7	677
Car for inclined planes	J. Earnshaw	162, 358	Apr. 20, 1875	713	232		
Car, Freight	S. Paul and J. Sibley	160, 463	Mar. 2, 1875	185	64	7	375

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Car, Hand	J. H. Gabert	163, 176	May 11, 1875	426	138	7	810
Car, Hand	L. C. Hopkins and A. Cooke	159, 266	Feb. 2, 1875	23	8	7	188
Car, Hand	B. F. Ray	167, 119	Aug. 24, 1875	917	286	8	354
Car-heater	T. W. Tyler	159, 002	Jan. 19, 1875	628	208	7	125
Car heater and ventilator	J. Amory	163, 908	June 1, 1875	59	20	7	938
Car heater and ventilator	J. Oliphant	163, 397	May 18, 1875	648	207	7	855
Car heater, Railway	W. B. Hayden	161, 879	Apr. 13, 1875	268	90	7	618
Car-heater, Safety	C. A. West	170, 321	Nov. 23, 1875	993	311	8	888
Car hitch-hook, Street	D. Demarest	159, 308	Feb. 2, 1875	56	21	7	192
Car lifter, Railway	J. D. Imboden	170, 374	Nov. 23, 1875	1037	326	8	895
Car-lighting apparatus, Railway	R. Pintsch	162, 946	May 4, 1875	195	64	7	773
Car-lighting apparatus, Railway	I. F. Randolph	169, 658	Nov. 9, 1875	336	106	8	781
Car-lighting apparatus, Railway	J. Story	160, 126	Oct. 26, 1875	797	258	8	700
Car, Lumber	J. L. Ridgely, jr	167, 121	Aug. 24, 1875	919	286	8	354
Car-motor	G. E. Oliver	166, 070	July 27, 1875	929	287	8	172
Car-mover	M. Woodworth and J. B. Fredricks	164, 504	June 15, 1875	638	206	7	1035
Car, Oil	A. P. Odell	163, 515	May 18, 1875	760	241	7	870
Car, Ore	S. L. Pierce	162, 189	Apr. 20, 1875	555	182	7	662
Car, Passenger	I. Bridgman	160, 079	Feb. 23, 1875	819	269	7	316
Car, Passenger	D. Price	158, 519	Jan. 5, 1875	148	50	7	30
Car, Passenger	M. A. Rikli	167, 122	Aug. 24, 1875	919	287	8	355
Car-platform	G. M. Brill	167, 385	Sept. 7, 1875	4	2	8	407
Car-platform	B. J. La Mothe	170, 480	Nov. 30, 1875	1154	364	8	919
Car-platform	E. Tilp	170, 415	Nov. 23, 1875	1077	339	8	900
Car platform, Street	J. B. Slawson	158, 749	Jan. 12, 1875	362	124	7	75
Car platform, Street	J. Stephenson	161, 569	Mar. 30, 1875	1263	406	7	552
Car-pole coupling, Street	J. S. Hagerty	162, 379	Apr. 20, 1875	736	239	7	685
Car poles, Draw-iron for street	L. C. Prouty	167, 933	Sept. 21, 1875	514	164	8	495
Car-propeller	E. H. Leveaux	169, 816	Nov. 9, 1875	499	157	8	807
Car-propelling device	W. Eppelsheimer	166, 975	Aug. 24, 1875	779	240	8	335
Car-pusher	C. Bird and W. H. Sullenberger	159, 787	Feb. 16, 1875	532	177	7	271
Car, Refrigerator	J. E. Acklorn	168, 953	Oct. 19, 1875	609	202	8	667
Car-replacer	W. Elms	165, 082	June 29, 1875	1184	381	7	1124
Car-replacer	S. I. Gates	161, 605	Apr. 6, 1875	14	6	7	571
Car-replacer	W. H. McLean	159, 697	Feb. 9, 1875	430	144	7	252
Car-replacer	R. D. Watson	158, 656	Jan. 12, 1875	289	97	7	64
Car-replacer	O. J. Williams	167, 421	Sept. 7, 1875	42	12	8	412
Car runner, Railway	L. O. Root	171, 581	Dec. 28, 1875	912	298 299	8	1096
Car safety-step	J. A. Haase	162, 060	Apr. 13, 1875	420	140	7	638
Car-seat	E. G. Wellman	158, 449	Jan. 5, 1875	84	29	7	21
Car-seat	T. West	161, 646	Apr. 6, 1875	50	19	7	576
Car-seat lock	E. S. Scofield	170, 193	Nov. 23, 1875	879	275	8	872
Car seat, Railway	N. N. Horton	166, 875	Aug. 17, 1875	670	208	8	311
Car-seats, Head-rest for	T. Edwards	166, 455	Aug. 10, 1875	279	83	8	246
Car side-bearing, Railway	G. Galloway	168, 476	Oct. 5, 1875	138	47	8	585
Car signal-light, Railway	R. F. Burnham and W. F. Strong	160, 871	Mar. 16, 1875	583	189	7	446
Car signaling device, Street	J. Stephenson	161, 568	Mar. 30, 1875	1262	406	7	552
Car, Single-rail-railway	C. McWayne	163, 227	May 11, 1875	470	152	7	816
Car, Single-rail-railway	R. Stone	170, 692	Dec. 7, 1875	36	11	8	955
Car, Sleeping	J. Bolt	170, 985	Dec. 14, 1875	318	105	8	1000
Car, Sleeping	J. F. Goodridge	169, 633	Nov. 9, 1875	311	99	8	784
Car, Sleeping	E. P. Kellogg	168, 027	Sept. 21, 1875	597	191	8	507
Car, Sleeping	C. E. Lucas	159, 428	Feb. 2, 1875	168	57, 58	7	207
Car, Sleeping	C. E. Lucas	161, 249	Mar. 23, 1875	939	305 306	7	502
Car, Sleeping	C. E. Lucas	166, 792	Aug. 17, 1875	591	182	8	300
Car, Sleeping	C. E. Lucas	168, 098	Sept. 28, 1875	694	219	8	527
Car, Sleeping	J. L. Mitchell	171, 238	Dec. 21, 1875	581	191	8	1043
Car, Sleeping	J. L. Mitchell	171, 239	Dec. 21, 1875	582	191	8	1043
Car, Sleeping	F. W. Parsons	168, 579	Oct. 11, 1875	262	86	8	609
Car-spring	B. A. Clooney	158, 361	Jan. 5, 1875	9	3	7	10
Car-spring	B. A. Clooney	161, 386	Mar. 30, 1875	1087	352	7	529
Car-spring	A. J. Culbertson	159, 802	Feb. 16, 1875	548	182	7	272
Car-spring	G. F. Godley	161, 115	Mar. 23, 1875	814	266	7	486
Car-spring	W. P. Hansell	163, 485	May 18, 1875	727	232	7	866
Car-spring	D. R. Pratt	168, 845	Oct. 19, 1875	513	168	8	653
Car-spring	D. R. Pratt	168, 846	Oct. 19, 1875	513	168	8	653
Car-spring	J. E. Wootten	165, 647	July 13, 1875	505	154	8	87
Car-spring	J. E. Wootten	166, 178	July 27, 1875	1039	320	8	188
Car-spring	J. E. Wootten	166, 179	July 27, 1875	1040	320	8	188
Car-spring, Air	P. Giffard	168, 980	Oct. 19, 1875	635	210	8	671
Car-starter	F. Ashley	164, 127	June 8, 1875	275	94	7	979
Car-starter	G. S. Bailey and H. Pool	165, 052	June 29, 1875	1157	373	7	1120
Car-starter	H. W. Baltz, sr	162, 339	Apr. 20, 1875	692	225	7	679
Car-starter	S. Corse	159, 645	Feb. 9, 1875	377	125	7	245
Car-starter	S. Corse	165, 309	July 6, 1875	150	46	8	29
Car-starter	G. S. Curtis	165, 070	June 29, 1875	1174	378	7	1123
Car-starter	A. Dahler	170, 347	Nov. 23, 1875	1015	318	8	892
Car-starter	A. S. Gear	158, 585	Jan. 12, 1875	324	75	7	55
Car-starter	E. G. Goddard	170, 546	Nov. 30, 1875	1215	382	8	927
Car-starter	D. D. Hardy	160, 769	Mar. 16, 1875	497	162	7	434
Car-starter	D. D. Hardy	161, 030	Mar. 23, 1875	730	240	7	475
Car-starter	F. D. Hardy	163, 486	May 18, 1875	728	232	7	866
Car-starter	R. E. Hastings and B. W. Naves	167, 528	Sept. 7, 1875	133	40	8	425
Car-starter	G. Hunter	164, 455	June 15, 1875	597	194	7	1030
Car-starter	G. A. Huse	161, 042	Mar. 23, 1875	741	244	7	477
Car-starter	A. A. Jones	167, 340	Aug. 31, 1875	1131	356	8	391
Car-starter	G. S. Knapp	170, 175	Nov. 23, 1875	864	270	8	870
Car-starter	T. McDonough	166, 213	Aug. 3, 1875	27	9	8	203
Car-starter	J. C. Moore	159, 766	Feb. 16, 1875	511	171	7	268
Car-starter	C. F. Murdock	162, 572	Apr. 27, 1875	930	299	7	717
Car-starter	T. Murgatroyd	168, 172	Sept. 28, 1875	765	242	8	537
Car-starter	L. C. Parker	167, 928	Sept. 21, 1875	510	163	8	495

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Car-starter.....	J. D. Pierce.....	170,490	Nov. 30, 1875	1162	366	8	920
Car-starter.....	C. J. Shain and G. L. Waitt.....	162,956	May 4, 1875	207	67	7	774
Car-starter.....	A. B. Sharp.....	162,957	May 4, 1875	209	67	7	774
Car-starter.....	A. H. Smith.....	164,049	June 1, 1875	183	65	7	956
Car-starter.....	F. Stafford.....	163,895	June 1, 1875	49	17	7	937
Car-starter.....	M. Toulmin.....	168,940	Oct. 19, 1875	599	198	8	666
Car-starter.....	L. Wolfley.....	170,459	Nov. 30, 1875	1133	357	8	916
Car starter and brake.....	T. L. Webster.....	167,370	Aug. 31, 1875	1160	366	8	396
Car, Stock.....	W. W. Ker.....	167,177	Aug. 31, 1875	995	309	8	372
Car, Stock.....	J. R. McPherson.....	161,807	Apr. 6, 1875	186	63	7	596
Car, Stock.....	J. R. McPherson.....	165,849	July 20, 1875	710	216	8	130
Car, Stock.....	J. R. McPherson.....	165,850	July 20, 1875	711	217	8	130
Car, Stock.....	J. R. McPherson.....	168,043	Sept. 21, 1875	614	197	8	510
Car, Stock.....	S. W. Remer.....	159,357	Feb. 2, 1875	106	36, 37	7	199
Car, Stock.....	A. N. Steventon and T. F. McGrath.....	168,061	Sept. 21, 1875	643	204	8	513
Car, Street.....	S. H. Little.....	164,311	June 8, 1875	448	148	7	1002
Car, Street.....	J. Stephenson.....	161,565	Mar. 30, 1875	1258	405	7	551
Car, Street.....	J. Stephenson.....	161,566	Mar. 30, 1875	1259	405	7	551
Car, Street.....	J. Stephenson.....	161,567	Mar. 30, 1875	1261	406	7	551
Car, Street.....	J. Stephenson.....	162,964	May 4, 1875	214	69	7	775
Car, Street.....	J. Stephenson.....	167,585	Sept. 7, 1875	183	57	8	432
Car-ventilator.....	G. F. Godley.....	171,611	Dec. 28, 1875	954	309	8	1100
Car-ventilator.....	A. Hanco.....	168,897	Oct. 19, 1875	556	182	8	659
Car-ventilator.....	E. Korting.....	159,187	Jan. 26, 1875	818	269	7	158
Car-ventilator.....	G. H. Storey.....	170,783	Dec. 7, 1875	118	38	8	966
Car-ventilator and water-cooler, Combined.....	A. J. Morrison.....	163,513	May 18, 1875	757	240 241	7	869
Car ventilator, Railway.....	E. Rueane.....	165,180	July 6, 1875	37	11	8	13
Car-ventilators, Device for regulating.....	G. W. Birmingham.....	165,469	July 13, 1875	343	100	8	62
Car warming and ventilating apparatus, Railway.....	J. Story.....	168,426	Oct. 5, 1875	94	33	8	578
Car warming and ventilating device.....	F. and J. Chalfant.....	159,541	Feb. 9, 1875	301	97	7	233
Car-wheel.....	S. B. Chapman.....	160,814	Mar. 13, 1875	538	174	7	440
Car-wheel.....	W. J. Cochran.....	158,678	Jan. 12, 1875	304	103	7	67
Car-wheel.....	W. J. Cochran.....	159,644	Feb. 9, 1875	376	125	7	244
Car-wheel.....	J. Leland.....	158,848	Jan. 19, 1875	478	160	7	106
Car-wheel.....	G. G. Lobdell.....	164,570	June 15, 1875	693	225	7	1043
Car-wheel.....	W. A. Mills.....	162,186	Apr. 20, 1875	552	181	7	662
Car-wheel.....	W. H. Paige.....	169,370	Nov. 2, 1875	49	15	8	741
Car-wheel.....	G. Palmer.....	160,462	Mar. 2, 1875	184	64	7	375
Car-wheel.....	A. Schrock.....	166,899	Aug. 17, 1875	693	214	8	314
Car-wheel.....	J. B. Tarr.....	159,530	Feb. 9, 1875	293	94	7	232
Car wheel and axle.....	B. A. Berryman.....	159,145	Jan. 26, 1875	777	255	7	153
Car-wheel chill.....	W. Wilmington.....	169,325	Oct. 26, 1875	977	317	8	725
Car-wheel lubricator.....	J. Woodville.....	167,048	Aug. 24, 1875	847	263	8	344
Car-wheel-swaging machine.....	A. L. Blackman.....	160,566	Mar. 9, 1875	291	99	7	399
Car-wheel, Tram-road.....	A. D. Griffin.....	161,223	Mar. 23, 1875	911	298	7	499
Car-wheels, Anti-friction device for.....	C. B. and S. W. Emery.....	159,656	Feb. 9, 1875	390	130	7	246
Car-wheels, Casting.....	W. A. Miles.....	159,434	Feb. 2, 1875	174	59	7	208
Car-wheels, Casting.....	W. Wilmington.....	170,925	Dec. 7, 1875	238	81	8	982
Car-window.....	J. L. M. Du Four.....	164,534	June 15, 1875	662	214	7	1039
Car-window.....	L. S. Starrett.....	163,113	May 11, 1875	367	119	7	803
Car window, Railway.....	A. Brandon.....	169,140	Oct. 26, 1875	808	262	8	702
Car-windows, Ventilating-screen for.....	C. F. Bridgman.....	168,712	Oct. 11, 1875	382	125	8	626
Cars and buildings, Ventilating.....	J. Briggs.....	162,616	Apr. 27, 1875	967	311	7	722
Cars, Apparatus for transferring goods to and from.....	W. H. Elliott.....	169,896	Nov. 16, 1875	588	183	8	826
Cars, Cinder-warder for railway.....	J. J. W. Taylor.....	168,681	Oct. 11, 1875	354	116	8	623
Cars, Combined wind-wheel and fan for.....	A. W. Woodward.....	170,215	Nov. 23, 1875	898	280	8	875
Cars, Construction of railway.....	J. E. Sleeper.....	158,505	Jan. 5, 1875	137	46	7	28
Cars, Device for moving railway.....	B. F. Phelps.....	160,839	Mar. 16, 1875	558	181	7	442
Cars, Draw-bar for street.....	F. F. Adams.....	167,968	Sept. 21, 1875	540	173	8	449
Cars, Draw-head for street.....	G. Jacoby.....	159,415	Feb. 2, 1875	157	53	7	206
Cars, Folding seat for horse.....	C. B. Sheldon.....	166,309	Aug. 3, 1875	114	35	8	215
Cars, Hand-motor for street.....	R. Steel and S. Austin.....	170,969	Dec. 14, 1875	303	101	8	998
Cars, Heating and ventilating.....	W. Sager.....	166,415	Aug. 3, 1875	217	66	8	229
Cars on short curves, Means for turning.....	W. Eppelsheimer.....	166,976	Aug. 24, 1875	780	241	8	335
Cars, &c., Propelling device for street.....	H. Triple and N. A. Davis.....	159,980	Feb. 16, 1875	710	235	7	294
Cars, Safety-runner for railway.....	L. O. Root.....	166,301	Aug. 3, 1875	106	33	8	214
Cars, Ventilating.....	E. E. Hargreaves.....	170,364	Nov. 23, 1875	1027	322	8	893
Cars, &c., with endless traveling devices, Clamp apparatus for connecting street.....	T. Eppelsheimer.....	160,757	Mar. 16, 1875	484	158	7	433
Carbon or lamp-black, Apparatus for manufacturing.....	P. Neff and L. S. Fales.....	159,440	Feb. 2, 1875	180	61	7	209
Carboy.....	A. H. Fatzinger.....	170,216	Nov. 23, 1875	927	289	8	879
Carbureted hydrogen-gas machine, Portable.....	J. M. Clark.....	166,914	Aug. 24, 1875	720	223	8	327
Carbureter.....	J. R. Allen.....	165,050	June 29, 1875	1155	372	7	1120
Carbureter.....	J. H. Bean.....	164,360	June 15, 1875	507	167	7	1019
Carbureter.....	D. Bickford.....	162,523	Apr. 27, 1875	890	285	7	712
Carbureter.....	E. J. Daschbach.....	166,508	Aug. 10, 1875	321	97	8	252
Carbureter.....	T. H. Harrington.....	167,170	Aug. 31, 1875	989	307 308	8	371
Carbureter.....	J. C. Henderson.....	164,558	June 15, 1875	682	222	7	1042
Carbureter.....	H. J. Hyams.....	169,105	Oct. 26, 1875	777	252	8	697
Carbureter.....	J. F. and G. E. Lockwood.....	160,690	Mar. 9, 1875	399	134	7	415
Carbureter.....	S. Marks.....	168,910	Oct. 19, 1875	575	189	8	662
Carbureter.....	S. M. McKissock.....	170,097	Nov. 16, 1875	767	243	8	850
Carbureter.....	J. A. Pierce.....	165,862	July 20, 1875	724	220	8	132
Carbureter.....	J. M. Pollard.....	169,034	Oct. 19, 1875	687	227	8	677
Carbureter.....	I. W. Shaler.....	163,535	May 18, 1875	777	246	7	872
Carbureter.....	W. D. Snow.....	168,797	Oct. 11, 1875	457	149	8	637
Carbureter.....	D. L. Westcott.....	167,592	Sept. 7, 1875	189	59	8	433
Carbureter.....	D. L. Westcott.....	167,811	Sept. 14, 1875	400	129	8	470
Carbureter, Air.....	G. L. Gray and C. C. Lusby.....	165,564	July 13, 1875	424	128	8	75
Carbureter, Air and gas.....	A. W. Porter and F. M. Grimes.....	168,048	Sept. 21, 1875	623	199 200	8	511
Carbureter, Automatic rotary.....	T. A. Stombs.....	166,427	Aug. 3, 1875	228	69	8	231

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Carbureter, Gas	A. W. Porter	166, 476	Aug. 10, 1875	296	88	8	248
Carbureter, Gas	W. H. Reed	163, 528	May 18, 1875	772	245	7	871
Carbureter or hydrocarbon diffuser	H. J. Ferguson	160, 410	Mar. 2, 1875	136	48	4	368
Carbureters, Air-blower for	W. H. Reed	165, 254	July 6, 1875	102	31	8	23
Carbureters, Air-blowing apparatus for	C. M. Gearing	169, 802	Nov. 9, 1875	488	153	8	806
Carbureters, Air-pump for	H. Seyter	162, 255	Apr. 20, 1875	617	201	7	670
Carbureters, Air-supply attachment for	J. M. Cayce	166, 069	July 27, 1875	928	287	8	172
Carbureting air, Gas apparatus for	F. W. Ofeldt	162, 848	May 4, 1875	100	33	7	760
Carbureting and purifying gas and air, Apparatus for	L. E. Fish	164, 825	June 22, 1875	938	303	7	1084
Carbureting apparatus	C. M. Gearing	166, 602	Aug. 10, 1875	401	123	8	264
Carbureting apparatus	A. C. Rand	169, 843	Nov. 9, 1875	526	164 } 165 }	8	810
Carbureting apparatus	J. Werni	169, 872	Nov. 9, 1875	554	173	8	814
Carbureting gas-machine	E. Foster	162, 543	Apr. 27, 1875	907	290	7	714
Carbureting gas-machine	T. J. Martin	158, 802	Jan. 19, 1875	436	146	7	100
Carbureting gas-machine	A. C. Rand	160, 468	Mar. 2, 1875	189	65	7	375
Carbureting-machine	E. Schoenberg	165, 372	July 6, 1875	212	63	8	37
Card, Business	B. M. Wilkerson	167, 045	Aug. 24, 1875	844	263	8	344
Card-cylinders, Machine for cleaning	H. Spalding	166, 565	Aug. 10, 1875	367	113	8	259
Card, Direction	A. E. Thurber	167, 204	Aug. 31, 1875	1016	316	8	375
Card-grinding machine	J. F. Wicks	171, 075	Dec. 14, 1875	396	132	8	1010
Card, Playing	P. D. Aub	164, 508	June 15, 1875	641	207	7	1036
Card, Playing	A. Dougherty	168, 626	Oct. 11, 1875	310	101	8	616
Card, Playing	R. R. Landis	170, 381	Nov. 23, 1875	1044	328	8	895
Carding and combing machines, Cylinder for wool	J. K. Proctor	164, 593	June 15, 1875	712	232	7	1046
Carding engine feeding mechanism	J. G. Freeman	170, 842	Dec. 7, 1875	167	57	8	973
Carding engine, Wool	A. H. Woodbury	166, 578	Aug. 10, 1875	377	116	8	261
Carding-machine	T. H. and H. Blamires and H. Marsden. }	164, 796	June 22, 1875	906	294 } 295 }	7	1080
Carding-machine	J. and J. Dobson	165, 716	July 20, 1875	579	177	8	113
Carding-machine	J. F. Foss	166, 089	July 27, 1875	952	293	8	175
Carding-machine	H. Higgins and T. S. Whitworth	161, 613	Apr. 6, 1875	21	8, 9	7	571
Carding-machine	J. Mason	161, 252	Mar. 23, 1875	944	308	7	503
Carding-machine condensing mechanism	M. A. Furbush	166, 601	Aug. 10, 1875	400	123	8	264
Carding-machine cylinder	C. N. Plantron	166, 407	Aug. 3, 1875	209	63	8	228
Carding-machine doffing mechanism	J. Barker	159, 742	Feb. 16, 1875	490	164	7	265
Carding-machine feeding apparatus	J. J. Dewey	170, 825	Dec. 7, 1875	153	51	8	971
Carding-machine feeding mechanism	G. S. Harwood	159, 923	Feb. 16, 1875	657	217	7	287
Carpenters, Planking-set for ship	E. Sloan	164, 881	June 22, 1875	992	320	7	1091
Carpenter's sliding gage and square	A. Iske and J. Baumgartner	158, 843	Jan. 19, 1875	473	159	7	105
Carpet beater and cleaner	J. Leiss	167, 770	Sept. 14, 1875	363	115	8	464
Carpet-beating machines, Destroying the vermin, &c., from	J. Doyle	164, 274	June 8, 1875	412	138	7	997
Carpet-cleaner	D. B. Scofield	164, 773	June 22, 1875	884	288	7	1078
Carpet-fabric	S. Horner, jr	162, 385	Apr. 20, 1875	740	241	7	6-5
Carpet-fastener	A. Burroughs	159, 153	Jan. 26, 1875	784	257	7	154
Carpet-lining	C. Amazeen	168, 076	Sept. 28, 1875	669	213	8	525
Carpet-lining	G. W. Chipman	168, 373	Oct. 5, 1875	49	18	8	571
Carpet-lining	G. W. Chipman	168, 374	Oct. 5, 1875	50	18	8	571
Carpet-linings, Machine for making	W. Lewis	171, 292	Dec. 21, 1875	632	207	8	1049
Carpet-rag looper	G. W. Naylor and H. T. Jefferis	162, 093	Apr. 13, 1875	446	148	7	641
Carpet-rag looper	W. H. H. Wyckoff	170, 323	Nov. 23, 1875	996	312	8	8-9
Carpet show-rack	J. Crawshaw, jr	166, 345	Aug. 3, 1875	146	45	8	220
Carpet-stretcher	S. S. Calhoun and J. Kimerer	170, 987	Dec. 14, 1875	319	106	8	1060
Carpet-stretcher	B. Darragh	167, 876	Sept. 21, 1875	472	149	7	489
Carpet-stretcher	G. H. Ford	158, 926	Jan. 19, 1875	555	181	8	115
Carpet-stretcher	H. Goss	168, 633	Oct. 11, 1875	316	103	8	617
Carpet-stretcher	N. H. Merrill	162, 939	May 4, 1875	188	62	7	772
Carpet-stretcher	L. Nolton	171, 307	Dec. 21, 1875	644	211	8	1051
Carpet-stretcher	E. P. Shaffer	165, 032	June 29, 1875	1139	368	7	1118
Carpet-stretcher	A. D. Williams	163, 712	May 25, 1875	944	300	7	901
Carpet-stretcher and holder	D. Peters	165, 022	June 29, 1875	1130	365	7	1116
Carpet-stretcher and tack-driver, Combined	G. A. Alger	163, 907	June 1, 1875	58	20	7	938
Carpet-sweeper	F. M. Beckford	162, 520	Apr. 27, 1875	887	284	7	712
Carpet-sweeper	G. S. Gladding	167, 164	Aug. 31, 1875	984	306	8	370
Carpet-sweeper	J. J. Hatlinger	165, 730	July 20, 1875	589	181	8	114
Carpet-sweeper	J. Kauper	166, 388	Aug. 3, 1875	190	57	8	225
Carpet-sweeper	G. S. Norris	158, 511	Jan. 5, 1875	142	48	7	29
Carpet-sweeper	A. H. Spencer	166, 422	Aug. 3, 1875	224	68	8	230
Carpet-sweeper	A. W. Stewart	166, 232	Aug. 3, 1875	43	14	8	205
Carriage	R. L. Ogden	166, 546	Aug. 10, 1875	351	108	8	256
Carriage	F. Scherb and F. F. Doland	162, 313	Apr. 20, 1875	668	218	7	677
Carriage	C. Thomas	168, 430	Oct. 5, 1875	97	34	8	579
Carriage and chair combined, Child's	C. F. Tenney and T. J. Hobbs	164, 782	June 22, 1875	894	291	7	1079
Carriage and sleigh handle, Child's	G. E. Hawks and E. A. Hill	158, 706	Jan. 12, 1875	329	112	7	70
Carriage and wagon running-gear	H. Dibel	161, 767	Apr. 6, 1875	152	53	7	591
Carriage-axle	J. Kline	161, 618	Apr. 6, 1875	25	11	7	572
Carriage-axle	W. W. Simmons	169, 856	Nov. 9, 1875	538	168	8	811
Carriage-axle	J. P. Spicer and T. Insull	158, 993	Jan. 19, 1875	619	205	7	124
Carriage axle, Child's	H. W. Warner	158, 815	Jan. 19, 1875	448	149	7	102
Carriage-axles, Machine for forming collars on	J. Kritch	170, 744	Dec. 7, 1875	82	26, 27	8	961
Carriage-axles, Machine for turning	J. W. Ellis	170, 538	Nov. 30, 1875	1204	380	8	926
Carriage-bodies, Hanging	S. N. Beecher	161, 738	Apr. 6, 1875	129	45	7	587
Carriage-body-loop blanks, Die for making	E. D. Clapp and F. Van Patten	168, 322	Oct. 5, 1875	7	3	8	565
Carriage-bow	J. A. Topliff	166, 950	Aug. 24, 1875	753	233	8	331
Carriage-bow rest	W. E. Yeager	161, 189	Mar. 23, 1875	876	287	7	494
Carriage-bows, Machine for setting	J. H. McClymonds	170, 875	Dec. 7, 1875	193	66	8	976
Carriage Child's	C. H. Amidon	161, 086	Mar. 23, 1875	781	257	7	482
Carriage, Child's	R. W. Caldwell	166, 068	July 27, 1875	927	286	8	172
Carriage, Child's	J. A. Crandall	168, 458	Oct. 5, 1875	122	42	8	532
Carriage, Child's	A. W. Daby	159, 646	Feb. 9, 1875	378	125	7	245
Carriage, Child's	T. Galt and J. Blaisdell	171, 370	Dec. 21, 1875	697	230	8	1058
Carriage, Child's	L. B. Harrington, jr	168, 394	Oct. 5, 1875	67	24	8	574
Carriage, Child's	F. L. Hughes	159, 761	Feb. 16, 1875	507	170	7	623
Carriage, Child's	F. H. Jury	163, 381	May 18, 1875	632	203	7	858

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Carriage, Child's	R. Kreter	160,917	Mar. 16, 1875	619	{ 202 203	{ 7	451
Carriage, Child's	E. Krueger	168,647	Oct. 11, 1875	328	107	8	619
Carriage, Child's	J. M. Lewis	159,588	Feb. 9, 1875	335	111	7	239
Carriage, Child's	M. Medart	170,098	Nov. 16, 1875	768	243	8	850
Carriage, Child's	H. C. Moody	167,459	Sept. 7, 1875	70	21	8	416
Carriage, Child's	S. Oppenheimer	168,523	Oct. 5, 1875	185	60	8	590
Carriage, Child's	A. Ropes	170,493	Nov. 30, 1875	1164	367	8	921
Carriage, Child's	H. J. Shill, jr.	164,107	June 8, 1875	260	89	7	977
Carriage, Child's	J. P. Staub	166,903	Aug. 17, 1875	696	{ 215 216	{ 8	314
Carriage, Child's	O. G. Stratton and B. B. Noyes ..	161,987	Apr. 13, 1875	358	120	7	630
Carriage, Child's	F. W. Whitney	166,237	Aug. 3, 1875	47	15	8	206
Carriage, Child's	W. Wuerz	163,715	May 25, 1875	946	300	7	901
Carriage-clip	A. W. Doty	163,055	May 11, 1875	315	101	7	795
Carriage-coupling	S. E. Foster	168,246	Sept. 28, 1875	828	264	8	546
Carriage-curtain	H. C. Moody	170,291	Nov. 23, 1875	967	302	8	884
Carriage-curtain fastener	H. Foster	159,809	Feb. 16, 1875	555	184	7	273
Carriage-curtain fastener	C. Kurz	159,585	Feb. 9, 1875	333	110	7	238
Carriage-curtain fastening	C. P. Ketterer	163,663	May 25, 1875	904	287	7	896
Carriage-curtain fixture	D. R. Knight and J. M. Ripple ..	166,114	July 27, 1875	975	300	8	179
Carriage-curtain fixture	D. R. Knight and J. M. Ripple ..	169,555	Nov. 2, 1875	215	71	8	764
Carriage-dash-board	J. Curtis	163,052	May 11, 1875	313	100	7	795
Carriage-door	G. Schaffner	163,268	May 11, 1875	511	166	7	821
Carriage-flap fastener	C. Thomas and W. K. Parker ..	159,717	Feb. 9, 1875	448	150	7	255
Carriage, Hand	W. O. Umstead	160,487	Mar. 2, 1875	208	71, 72	7	378
Carriage-handle socket, Child's ..	A. McLaughlin	171,153	Dec. 14, 1875	476	155	8	1021
Carriage-jack	J. G. Baker	162,009	Apr. 13, 1875	375	126	7	632
Carriage-jack	R. Eldridge	163,756	May 25, 1875	982	311	7	906
Carriage-jack	A. W. Field	167,232	Aug. 31, 1875	1040	323	8	378
Carriage-jack	Z. McDonald	169,279	Oct. 26, 1875	931	302	8	719
Carriage-jack	H. E. Nittinger	163,798	May 25, 1875	1017	322	7	911
Carriage-jack	A. W. Richards	168,530	Oct. 5, 1875	191	63	8	591
Carriage-jack, Ratchet	C. P. Willis	168,312	Sept. 28, 1875	885	283	8	554
Carriage jump-seat	C. K. Mellinger	162,297	Apr. 20, 1875	653	213	7	675
Carriage jump-seat	J. R. Patten	158,864	Jan. 19, 1875	492	165	7	108
Carriage jump-seat	N. Starkey	160,036	Feb. 23, 1875	781	258	7	311
Carriage prop, nut, and rivet	G. A. Keene	161,518	Mar. 30, 1875	1214	390	7	545
Carriage-seat	D. Conboy	159,798	Feb. 16, 1875	545	181	7	272
Carriage-seat	S. Gilzinger	169,256	Oct. 26, 1875	909	295	8	716
Carriage-seat	C. K. Mellinger	165,016	June 29, 1875	1126	363	7	1116
Carriage-seat back	A. F. Hubbell	161,040	Mar. 23, 1875	739	243	7	477
Carriage-seat, Extension	J. V. Randall	158,738	Jan. 12, 1875	356	121	7	74
Carriage-seat irons, Former for bending ..	L. Emerson, A. J. Clark, and J. T. Richmond ..	168,007	Sept. 21, 1875	575	185	8	505
Carriage-shackles, Manufacturing ..	A. McKenzie	159,950	Feb. 16, 1875	682	226	7	290
Carriage shifting-rail	E. P. Stedman	166,728	Aug. 17, 1875	535	164	8	291
Carriage shifting-seat	J. P. Cost	160,651	Mar. 9, 1875	364	{ 122 123	{ 7	410
Carriage-slat bows, Forming the ends of ..	C. Renton	167,690	Sept. 14, 1875	285	90	8	453
Carriage-spring	E. Chamberlin	167,065	Aug. 24, 1875	865	269	8	347
Carriage-spring	J. Cunningham	167,991	Sept. 21, 1875	558	180	8	502
Carriage-spring	H. M. Curtis	167,992	Sept. 21, 1875	559	180	8	502
Carriage-spring	W. F. Dusenbury	162,278	Apr. 20, 1875	637	208	7	673
Carriage-spring	W. H. Elliot	169,683	Nov. 9, 1875	361	114	8	790
Carriage-spring	J. Enders	160,887	Mar. 16, 1875	596	194	7	448
Carriage-spring	J. Fredenburgh	167,888	Sept. 21, 1875	482	152	8	490
Carriage-spring	W. S. Higgins	159,672	Feb. 9, 1875	409	136	7	249
Carriage-spring	C. G. Lazear	161,800	Apr. 6, 1875	179	61	7	595
Carriage-spring	H. Sprague	163,112	May 11, 1875	366	119	7	802
Carriage-spring attachment	C. S. Caffrey	162,027	Apr. 13, 1875	387	130	7	634
Carriage-spring-setting machine]	T. B. De Forest	162,040	Apr. 13, 1875	397	{ 134 135	{ 7	635
Carriage-spring-setting machine	T. B. De Forest	166,918	Aug. 24, 1875	725	224	8	327
Carriage standard, Child's	G. W. Marble	164,195	June 8, 1875	334	114	7	987
Carriage-step	E. A. Cooper	167,646	Sept. 14, 1875	249	77	8	448
Carriage-top	J. H. Gibson	163,178	May 11, 1875	428	139	7	810
Carriage-top	A. W. Gilbert	167,658	Sept. 14, 1875	259	80	8	450
Carriage-top	J. C. Goold	169,634	Nov. 9, 1875	313	100	8	784
Carriage-top	C. Heergeist	160,905	Mar. 16, 1875	611	199	7	450
Carriage-top	R. F. Painter	169,371	Nov. 2, 1875	50	15	8	741
Carriage-top	W. H. Power and C. T. Anderson ..	169,579	Nov. 2, 1875	239	78, 79	8	767
Carriage-top	E. P. Stedman	161,837	Apr. 6, 1875	219	73	7	600
Carriage-top	G. E. Whitmore	167,373	Aug. 31, 1875	1164	366	8	396
Carriage-top prop	E. D. Clapp and F. Van Patten ..	168,319	Oct. 5, 1875	5	2	8	565
Carriage-top, Shifting	H. M. Gillespie and V. True	170,361	Nov. 23, 1875	1025	321	8	893
Carriage-top-slat iron	F. B. Plumb	163,835	June 1, 1875	42	14	7	936
Carriage-top support	A. Goodyear	160,894	Mar. 16, 1875	602	196	7	449
Carriage-wheel	E. Brown	171,348	Dec. 21, 1875	678	224	8	1056
Carriage-wheel	G. H. Crosby	170,994	Dec. 14, 1875	326	108	8	1001
Carriage-wheel	D. Cushman	166,191	Aug. 3, 1875	9	3	8	200
Carriage-wheel	I. Kester	169,272	Oct. 26, 1875	924	300	8	718
Carriage-wheel	S. W. Ludlow	170,866	Dec. 7, 1875	186	62	8	975
Carriage-wheel boxes, Shearing-die for ..	H. Hammond	161,956	Apr. 13, 1875	333	112	7	627
Carriage-wheel dust-guard	M. C. Nay	169,915	Nov. 16, 1875	605	188	8	828
Carriage-wheel fender	A. Shoeninger	159,047	Jan. 26, 1875	601	228	7	141
Carriage-window	G. A. Keene	163,016	May 11, 1875	278	90	7	791
Carriages, Die for making stay-ends and offsets for ..	D. Wilcox	171,457	Dec. 21, 1875	770	{ 256 257	{ 8	1060
Carrier:							
See Acid-carried.	Ice-cream carrier.						
Bottle-carrier.	Lumber-carrier.						
Butter-carrier.	Trace-carrier.						
Egg-carrier.							
Carrying-jack	A. K. Norris	169,369	Nov. 2, 1875	40	14, 15	8	741

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Cart-chute	W. M. Thompson	165,632	July 13, 1875	490	149	8	84
Cart, Dead	T. F. White	168,438	Oct. 5, 1875	102	35	8	580
Cart, Dumping	J. J. Adgate	160,861	Mar. 16, 1875	575	187	7	445
Cart, Dumping	G. B. Wiestling	170,654	Nov. 30, 1875	1315	416	8	941
Cart, Self-loading	T. C. Strawn	163,541	May 18, 1875	782	248	7	872
Cart trough, Coal	W. P. Patton	161,543	Mar. 30, 1875	1236	398	7	548
Carts, Shifting body for hand	J. M. Jones	163,078	May 11, 1875	337	109	7	798
Carts, Spout attachment for dumping	M. A. Alvord	164,122	June 8, 1875	272	93	7	979
Carts, &c., Unloading attachment for	T. Crossley and L. A. Bertollette	159,907	Feb. 16, 1875	645	213	7	285
Cartridge	E. J. Collett	162,901	May 4, 1875	151	49	7	767
Cartridge	D. C. Farrington	160,263	Mar. 2, 1875	7	4	7	350
Cartridge	G. E. Hart	169,806	Nov. 9, 1875	491	154	8	806
Cartridge	G. E. Hart	169,807	Nov. 9, 1875	491	155	8	806
Cartridge	G. Smith	170,643	Nov. 30, 1875	1308	413	8	940
Cartridge, Ball	R. F. Cook	163,154	May 11, 1875	406	130	7	807
Cartridge-belt	D. Taylor	160,730	Mar. 9, 1875	436	145	7	419
Cartridge-belt	D. Taylor	171,639	Dec. 28, 1875	983	318	8	1105
Cartridge belt and holder	N. S. Goss	162,055	Apr. 13, 1875	415	139	7	637
Cartridge, Blasting	F. W. Smith and F. Egge	168,795	Oct. 11, 1875	456	149	8	637
Cartridge, Blasting	F. W. Smith and F. Egge	170,600	Nov. 30, 1875	1269	400	8	934
Cartridge, Blasting	F. W. Smith and F. Egge	171,441	Dec. 21, 1875	763	251	8	1067
Cartridge-box	G. E. Bringman	163,570	May 25, 1875	822	260	7	885
Cartridge-box	J. Lee	162,481	Apr. 27, 1875	854	274	7	708
					275		
Cartridge-box	M. V. B. White	164,890	June 22, 1875	999	323	7	1092
Cartridge case, Blasting	P. A. Oliver	167,465	Sept. 7, 1875	75	23	8	417
Cartridge case, Machine-gun	W. B. Franklin	159,404	Feb. 2, 1875	148	50	7	205
Cartridge case, Metallic	B. B. Hotchkiss	158,494	Jan. 5, 1875	128	43	7	27
Cartridge-cases, Machine for making and heading	J. V. Meigs	167,005	Aug. 24, 1875	810	251	8	339
					252		
					205	7	282
					207		
Cartridge-cases, Manufacture of metallic	T. R. Bayliss	159,883	Feb. 16, 1875	621	226	8	328
Cartridge feed-case	D. C. Farrington	166,924	Aug. 24, 1875	729	225	8	328
Cartridge-feeding case, Machine-gun	D. C. Farrington	166,923	Aug. 24, 1875	728	225	8	328
Cartridge, Fire-arm	J. H. Gill	163,181	May 11, 1875	430	140	7	811
Cartridge-holder	N. S. Goss	160,420	Mar. 2, 1875	146	51	7	369
Cartridge-loading device	G. W. Ausley	159,013	Jan. 26, 1875	663	217	7	137
Cartridge-loading device	W. Noyes	167,778	Sept. 14, 1875	369	117	8	465
Cartridge-loading device	F. Wohlgenuth	162,512	Apr. 27, 1875	882	282	7	711
Cartridge-loading implement	B. Burton	160,049	Feb. 23, 1875	792	261	7	313
Cartridge-loading implement	L. L. Hepburn	161,682	Apr. 6, 1875	80	28	7	580
Cartridge-loading implement	W. G. Rawbone	161,636	Apr. 6, 1875	42	16	7	575
Cartridge-loading implement	T. L. Sturtevant	162,431	Apr. 20, 1875	785	255	7	690
Cartridge-loading machines, Feeding attachment for	A. C. Carey	163,151	May 11, 1875	402	129	7	807
Cartridge making and loading machine	J. V. Meigs	163,024	May 11, 1875	284	92, 93	7	792
Cartridge, Metallic	F. W. Freund	160,763	Mar. 16, 1875	493	160	7	434
Cartridge, Metallic	M. M. E. Ganthey	159,665	Feb. 9, 1875	492	133	7	248
Cartridge-primer	W. S. Smoot	170,780	Dec. 7, 1875	115	37	8	965
Cartridge-shell	N. C. Hunting	161,514	Mar. 30, 1875	1211	389	7	545
Cartridge-shell holder	W. H. Holabird and A. Parks	160,432	Mar. 2, 1875	156	55	7	371
Cartridge-shells, Device for necking	G. P. Salisbury and C. S. Wells	167,940	Sept. 21, 1875	519	166	8	496
Cartridge-shells, Machine for feeding	A. C. Carey	161,382	Mar. 30, 1875	1083	351	7	528
Cartridge-shells, Machine for heading metallic	S. W. Wood	158,614	Jan. 12, 1875	248	83, 84	7	59
Cartridge-shells, Tool for heading	G. P. Salisbury and C. S. Wells	170,772	Dec. 7, 1875	109	34	8	965
Cartridge, Shot	B. D. Wilson	164,894	June 22, 1875	1002	324	7	1092
Cartridges, Block for holding	R. T. Hare	169,636	Nov. 9, 1875	315	101	8	784
Cartridges, Lubricating	J. V. Meigs	158,960	Jan. 19, 1875	587	195	7	120
Carving machine, Wood	J. F. Blackman	165,150	July 6, 1875	4	2	8	9
Case:							
See Blacking-case. Pen and pencil case.							
Bluing-case. Pencil-case.							
Book-case. Piano-forte case.							
Burial-case. Printer's case.							
Burial-casket case. Sewing-case.							
Cartridge-case. Show-case.							
Cartridge feed-case. Sketching and phono-							
Clock-case. graphic case.							
Demijohn-case. Smoking-case.							
Dressing-case. Spool-exhibiting case.							
Fishing-rod case. Ticket-case.							
Latch and lock case. Type-case.							
Meat-case. Watch-case.							
Needle-case. Yarn-case.							
Organ-case.							
Cask, Beer	P. Knudson	161,796	Apr. 6, 1875	176	60	7	594
Cask, Metallic	G. W. McKim	169,824	Nov. 9, 1875	509	159	8	808
Casks, Process for coating the interior of	G. Heath	164,298	June 8, 1875	435	.....	7	1000
Caskets and coffins, Construction of	J. M. Hutton	168,499	Oct. 5, 1875	161	52	8	587
Cast hook	J. C. Coonley	159,304	Feb. 2, 1875	54	20	7	192
Castanet	J. A. Crandall	166,344	Aug. 3, 1875	145	45	8	220
Caster, Furniture	L. F. Cerf	170,156	Nov. 23, 1875	847	265	8	868
Caster, Furniture	J. T. Codman	164,973	June 29, 1875	1090	351	7	1111
Caster, Furniture	W. Gould	168,479	Oct. 5, 1875	143	48	8	585
Caster, Furniture	J. F. Ohmer	168,773	Oct. 11, 1875	437	142	8	634
Caster, Furniture	W. A. Perkins	159,352	Feb. 2, 1875	102	35	7	198
Caster, Furniture	C. B. Sheldon	164,225	June 8, 1875	358	123	7	990
Caster, Furniture	C. B. Sheldon	164,226	June 8, 1875	358	123	7	990
Caster, knob, &c., fastening	J. and F. Thinnies, and C. Schue-	162,433	Apr. 20, 1875	787	256	7	691
	ler.						
Caster, Sewing-machine	J. B. Garretson	169,097	Oct. 26, 1875	769	250	8	696
Caster, Sewing-machine	J. McEwen	161,624	Apr. 6, 1875	31	12	7	573
Caster, Sewing-machine	L. Muther and E. Hentschel	160,276	Mar. 2, 1875	19	8	7	351
Caster, Sewing-machine	L. A. Parker	167,782	Sept. 14, 1875	372	119	8	466
Caster, Sewing-machine	J. H. Plank	158,436	Jan. 5, 1875	71	25	7	19

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Caster, Sewing-machine	B. P. Pratt	168, 182	Sept. 28, 1875	773	245	8	539
Caster, Sewing-machine	A. C. West	165, 965	July 27, 1875	832	256	8	159
Caster, Table	W. F. Collier	161, 933	Apr. 13, 1875	316	106	7	625
Caster, Toilet	S. W. Babbitt	162, 006	Apr. 13, 1875	373	125	7	632
Casting apparatus, Ingot	J. B. Tarr	159, 472	Feb. 2, 1875	220	71	7	215
Casting chilled mold-boards, &c.	G. K. Smith	161, 169	Mar. 23, 1875	860	281	7	492
Casting ingots, Mold for	D. Foster and W. Lockwood	158, 696	Jan. 12, 1875	320	109	7	69
Casting metals, Apparatus for	C. Grasser and J. Stepp	165, 164	July 6, 1875	15	5, 6	8	11
Casting, Method of	L. Morgan	164, 198	June 8, 1875	337	115	7	988
Casting-mold	B. Harris	166, 773	Aug. 17, 1875	576	177	8	297
Casting-patterns, Making	W. E. Craig	169, 151	Oct. 26, 1875	818	265	8	703
Casting steel, Apparatus for	T. Critchlow and J. Kidd	165, 068	June 29, 1875	1172	377	7	1122
Casting tubular articles	L. P. Rider	159, 553	Feb. 9, 1875	309	100	7	234
Castings from wrought and cast iron, Manufacture of	W. Hainsworth	169, 261	Oct. 26, 1875	916	.....	8	716
Castings, Machine for dressing	J. L. Otis	159, 526	Feb. 9, 1875	290	93	7	231
Castings, Making molds for	C. Grasser	162, 056	Apr. 13, 1875	416	.....	7	638
Castings, Process of chilling	E. A. Chubb	160, 508	Mar. 9, 1875	241	83	7	391
Castings, Rumbler for cleaning	L. I. Todd	163, 034	May 11, 1875	298	96	7	793
Castings, Steel brush for cleaning	C. W. Jenkins	158, 498	Jan. 5, 1875	132	44	7	27
Catamenial sack	G. Meacom	168, 515	Oct. 5, 1875	178	58	8	590
Catarrh, Empirical prescription for the cure of	J. W. Harvey	169, 540	Nov. 2, 1875	194	.....	8	761
Cattle-support	F. H. Relph	161, 825	Apr. 6, 1875	208	70	7	598
Caviar, Process of preserving	M. Ams	169, 668	Nov. 9, 1875	347	.....	8	788
Ceiling and floor, Fire-proof	G. B. Post	163, 248	May 11, 1875	493	160	7	818
Ceiling, Metallic	H. Adler	158, 881	Jan. 19, 1875	506	170	7	110
Ceiling register and ventilator	H. M. Creamer	165, 797	July 20, 1875	653	201	8	123
Cellar-hoist or elevator	C. D. Walters	159, 233	Jan. 26, 1875	860	280	7	164
Cellars, Constructing, ventilating, and cooling.	J. K. Frick	165, 486	July 13, 1875	356	104 } 105 }	8	64
Celluloid, Process and apparatus for softening and molding.	R. F. Hunt	162, 752	May 4, 1875	15	6	7	749
Cement, Apparatus for casting hollow articles of.	L. A. Tartiere	164, 057	June 1, 1875	192	99	7	957
Cement, &c., Apparatus for treating carbonic acid for hardening.	G. Richardson	170, 594	Nov. 30, 1875	1264	398	8	933
Cement, Composition for	R. Warwick	169, 212	Oct. 26, 1875	864	.....	8	700
Cement, Composition for stone	A. Boag	165, 533	July 13, 1875	398	.....	8	71
Cement, Hydraulic	C. F. Dunderdale	167, 653	Sept. 14, 1875	255	79	8	449
Cement, Marble	A. Boag	167, 979	Sept. 21, 1875	549	.....	8	501
Cement-pipe	M. Stephens	158, 539	Jan. 5, 1875	163	56	7	32
Cement-pipe clamp	G. C. Nichols	162, 683	Apr. 27, 1875	1037	331	7	730
Center-board	J. L. Dickenson	166, 970	Aug. 24, 1875	775	239	8	334
Center-board vessel	C. Hemje	158, 708	Jan. 12, 1875	330	112	7	70
Centering device	M. T. Greenwood	167, 834	Sept. 21, 1875	433	138	8	483
Centrifugal evaporator	C. Wendel and W. Florich	158, 764	Jan. 12, 1875	377	128	7	77
Centrifugal honey-extractor	A. W. Dawley	164, 531	June 15, 1875	660	214	7	1038
Centrifugal hydro-extractor	C. C. Webber	161, 719	Apr. 6, 1875	108	39	7	585
Centrifugal machine	G. Dinkel	165, 077	June 29, 1875	1180	379	7	1123
Centrifugal machine	C. C. Webber	167, 962	Sept. 21, 1875	536	172	8	499
Centrifugal machine in sugar-manufacture	F. O. Matthiessen	166, 999	Aug. 24, 1875	804	249	8	338
Centrifugal machine in sugar-manufacture	F. O. Matthiessen	167, 000	Aug. 24, 1875	805	250	8	338
Centrifugal machine in sugar-manufacture	F. O. Matthiessen	167, 001	Aug. 24, 1875	806	250	8	339
Centrifugal sugar-machine	J. O. Donner	160, 655	Mar. 9, 1875	368	124	7	410
Chain	J. W. Bonta	166, 334	Aug. 3, 1875	136	42	8	218
Chain gripe and tightener	J. N. and G. J. Ackerman	159, 057	Jan. 26, 1875	700	230	7	142
Chain-link	W. Roemer	169, 731	Nov. 9, 1875	410	130	8	796
Chain-link and chain	S. D. Locke	160, 107	Feb. 23, 1875	840	277	7	320
Chain-link-bending machine	J. Baird	169, 333	Nov. 2, 1875	7	2	8	735
Chain-link, Detachable	C. H. and A. L. Gillingham	166, 983	Aug. 24, 1875	786	243	8	336
Chain links, Machine for bending	B. Hershey	166, 375	Aug. 3, 1875	176	53	8	224
Chain, Ornamental	C. Thiéry	161, 297	Mar. 23, 1875	983	321	7	508
Chain-swivels, Die for making	P. H. Standish	159, 619	Feb. 9, 1875	358	118	7	242
Chain-swivels, Die for making the heads of	W. C. Edge	164, 366	June 15, 1875	513	169	7	1020
Chains, Machine for making ornamental	G. Trinks	166, 432	Aug. 3, 1875	235	72	8	232
Chair:							
See Adjustable and reversi-	Pivot-chair.						
ble chair.	Railway-chair.						
Barber's chair.	Reclining-chair.						
Child's walking-chair.	Recumbent chair.						
Convertible chair.	Revolving chair.						
Dental chair.	Rocking-chair.						
Dentist's chair.	School-house chair.						
Folding chair.	Sheep-shearing chair.						
Invalid-chair.	Ship's chair.						
Iron chair.	Spring-chair.						
Nursery-chair.	Tilting chair.						
Opera-chair.							
Chair	B. F. Allen	162, 001	Apr. 13, 1875	367	124	7	631
Chair	A. H. Brick	163, 828	Oct. 19, 1875	498	162	8	651
Chair	W. T. Doremus	159, 806	Feb. 16, 1875	551	183	7	273
Chair	J. V. Meigs	160, 934	Mar. 16, 1875	638	208	7	453
Chair	H. Reupke	166, 555	Aug. 10, 1875	357	110	8	257
Chair	A. B. Stevens	171, 186	Dec. 14, 1875	501	166	8	1024
Chair	T. Tosterin	169, 065	Oct. 19, 1875	715	236	8	681
Chair and lounge, Combined	H. Willgois	161, 081	Mar. 23, 1875	776	256	7	481
Chair and step-ladder, Combined	C. B. Rawson	165, 688	July 20, 1875	554	169	8	109
Chair-back-shaping machine	H. Buchter	166, 184	Aug. 3, 1875	3	2	8	199
Chair-base	W. T. Doremus	163, 054	May 11, 1875	314	101	7	795
Chair-base	W. T. Doremus	165, 717	July 20, 1875	580	177	8	113
Chair-base	W. T. Doremus	165, 718	July 20, 1875	580	178	8	113
Chair, &c., bottom	C. D. Flepet	163, 760	May 25, 1875	985	312	7	907
Chair-bottom	T. Tostevin	169, 064	Oct. 19, 1875	714	236	8	681
Chair-fastening	L. D. Craig	170, 470	Nov. 30, 1875	1145	361	8	918
Chair foot-rest	T. Head	158, 637	Jan. 12, 1875	268	90	7	62
Chair foot-rest	T. A. Johnsen	165, 932	July 27, 1875	804	246	8	155
Chair foot-rest	J. H. Travis	168, 298	Sept. 28, 1875	873	279	8	553

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Chair foot-rest, Easy.....	P. L. Lambert.....	161,887	Apr. 13, 1875	274	92	7	619
Chair-round-making machine.....	J. W. Millet.....	161,144	Mar. 23, 1875	840	274	7	489
Chair-round-tenoning machine.....	G. W. Parker.....	161,818	Apr. 6, 1875	198	67, 68	7	597
Chair-seat.....	L. Atwood.....	169,944	Nov. 16, 1875	631	196	8	831
Chair-seat.....	C. Brown.....	160,643	Mar. 9, 1875	357	120	7	409
Chair-seat.....	P. Buckley.....	171,212	Dec. 21, 1875	558	183	8	1040
Chair-seat.....	H. A. Moore.....	161,699	Apr. 6, 1875	93	33	7	582
Chair-seat.....	W. F. Spencer.....	162,708	Apr. 27, 1875	1061	338	7	733
Chair-seat, Detachable.....	W. W. St. John.....	165,516	July 13, 1875	382	113	8	68
Chair-seat material.....	D. H. Donovan.....	169,528	Nov. 2, 1875	184	62	8	760
Chair spring attachment.....	R. H. Ober.....	165,684	July 20, 1875	550	168	8	108
Chair spring-bottom.....	T. Noonan.....	166,133	July 27, 1875	994	307	8	182
Chairs, Mechanism for supporting leg-rests for.....	G. D. Goss.....	167,095	Aug. 24, 1875	897	279	8	351
Chairs, Writing-desk for.....	J. A. Park and W. Woodhouse.....	162,097	Apr. 13, 1875	450	150	7	642
Champagne-freezer.....	C. H. Ludwig.....	166,996	Aug. 24, 1875	802	249	8	338
Chandelier.....	R. Marsh.....	168,573	Oct. 11, 1875	258	84	8	608
Chandelier.....	J. Matthews.....	170,872	Dec. 7, 1875	191	66	8	976
Chandelier.....	F. McLewee.....	167,921	Sept. 21, 1875	505	161	8	494
Chandelier.....	F. S. Shirley.....	170,194	Nov. 23, 1875	880	275	8	872
Chandelier, Drop-light.....	G. F. Blaisse.....	162,889	May 4, 1875	138	45	7	765
Chandeliers, Friction-clutch for extension.....	E. C. Bruen.....	167,894	Sept. 21, 1875	552	178	8	501
Charcoal and bone-black heater and cooler.....	J. Gandolfo.....	165,993	July 27, 1875	862	265	8	163
Charcoal-kiln.....	W. Sparrow.....	163,700	May 25, 1875	933	296	7	900
Charcoal, Manufacturing animal.....	O. Lugo.....	165,344	July 6, 1875	184	.....	8	34
Check-box and cash-indicator, Combined.....	W. I. Ripley.....	171,244	Dec. 21, 1875	587	193	8	1044
Check-rower.....	V. Horne.....	161,232	Mar. 23, 1875	920	301	7	500
Check-rower.....	L. J. Odell.....	167,557	Sept. 7, 1875	156	49	8	428
Check-rower.....	J. Thomson.....	169,865	Nov. 9, 1875	548	171	8	813
Cheese-cutter.....	M. Phillips.....	158,518	Jan. 5, 1875	158	50	7	29
Cheese-cutter.....	J. W. Row.....	165,760	July 20, 1875	615	189	8	118
Cheese-making.....	A. L. Larrabee and J. M. Jocelyn.....	162,667	Apr. 27, 1875	1017	.....	7	728
Cheese-mill.....	J. F. Landis.....	159,189	Jan. 26, 1875	819	269	7	159
Cheese-preserver.....	J. Q. Black.....	170,222	Nov. 23, 1875	906	282	8	876
Cheese-preserver.....	J. Q. Black.....	170,223	Nov. 23, 1875	907	282	8	876
Cheese-press.....	G. C. Dolph and F. J. Smith.....	166,512	Aug. 10, 1875	325	98	8	253
Cheese-protector.....	D. A. Wells.....	168,437	Oct. 5, 1875	101	35	8	579
Cheese-vat.....	A. B. Armstrong.....	162,003	Apr. 13, 1875	370	124	7	632
Cheese-vat.....	C. W. F. Street.....	166,946	Aug. 24, 1875	750	232	8	331
Cheese-vat heater.....	L. A. Sunderland.....	161,176	Mar. 23, 1875	866	283	7	492
Chemise.....	C. Westcott.....	164,408	June 15, 1875	556	181	7	1025
Chemist's test apparatus.....	C. Fahlberg.....	169,348	Nov. 2, 1875	25	7	8	738
Cherry-pitter.....	W. B. Knapp.....	158,429	Jan. 5, 1875	60	21	7	17
Cherry-stoner.....	S. A. Darrach.....	169,525	Nov. 2, 1875	181	61	8	759
Child's walking-chair.....	G. P. Steinbach.....	159,976	Feb. 16, 1875	705	234	7	293
Chill.....	W. J. Welling.....	166,324	Aug. 3, 1875	126	39	8	217
Chimney and ventilator, Combined.....	L. B. Silver.....	159,285	Feb. 2, 1875	38	14	7	190
Chimney-cap.....	J. Gorten.....	160,668	Mar. 9, 1875	378	128	7	412
Chimney-cap.....	A. B. Hussey.....	158,942	Jan. 19, 1875	568	188	7	117
Chimney-cowl.....	E. Cole.....	166,968	Aug. 24, 1875	773	238	8	334
Chimney-cowl.....	T. K. Griffith.....	168,738	Oct. 11, 1875	409	133	8	630
Chimney-cowl.....	A. J. Robinson.....	161,704	Apr. 6, 1875	96	34	7	583
Chimney-cowl.....	A. J. Robinson.....	165,028	June 29, 1875	1136	366	7	1117
Chimney-cowl.....	J. Tomlinson.....	159,719	Feb. 9, 1875	450	150	7	255
Chimney-guard.....	R. Priseman.....	152,602	Jan. 12, 1875	238	80	7	57
Chimney-jack.....	E. M. Campbell.....	158,360	Jan. 5, 1875	9	3	7	10
Chimney soot-arrester.....	M. Brinkerhoff.....	167,602	Sept. 14, 1875	211	65	8	443
Chimney-stock.....	T. C. Nativel.....	168,520	Oct. 5, 1875	182	59	8	590
Chimney-top.....	H. Becker.....	160,074	Feb. 23, 1875	815	268	7	316
Chimney-top.....	C. W. Munger.....	159,344	Feb. 2, 1875	95	33	7	197
Chimney top and ventilator.....	P. H. Shine.....	166,725	Aug. 17, 1875	533	163	8	291
Chimney-ventilator.....	G. Howes.....	160,523	Mar. 9, 1875	254	87	7	394
Chimney-ventilator.....	P. Mihan.....	168,169	Sept. 28, 1875	762	241	8	537
China, Process for ornamenting.....	S. M. Adams.....	167,289	Aug. 31, 1875	1088	.....	8	385
Chisel, Mortising.....	A. R. Watterson.....	162,358	Oct. 5, 1875	34	13	8	569
Chlorine, Manufacture of.....	H. Deacon.....	165,801	July 20, 1875	658	.....	8	124
Chlorine, Manufacture of.....	H. Deacon.....	165,802	July 20, 1875	659	.....	8	124
Chronometer, Solar.....	M. Wheeler.....	170,423	Nov. 23, 1875	1085	341	8	901
Chronometers, watches, &c., Regulating.....	L. Eaton.....	163,981	June 1, 1875	117	39, 40	7	947
Chopper:							
See Cotton-chopper. Meat-chopper.							
Chuck.....	H. A. Keinball.....	169,007	Oct. 19, 1875	661	217	8	674
Chuck.....	G. W. Moulton.....	171,160	Dec. 14, 1875	481	157	8	1022
Chuck.....	E. S. Perot and H. C. Beitenman.....	167,018	Aug. 2, 1875	822	256	8	341
Chuck.....	C. H. Powers.....	164,658	June 22, 1875	783	256	7	1064
Chuck and centerer.....	G. F. Ballou.....	171,082	Dec. 14, 1875	403	133	8	1011
Chuck and centerer.....	J. R. Mason.....	166,538	Aug. 10, 1875	344	105	8	256
Chuck, Drill.....	N. W. Horton.....	161,616	Apr. 6, 1875	24	10	7	572
Chuck, Drill.....	J. O. Reilly.....	160,954	Mar. 16, 1875	657	214	7	456
Chuck for holding eccentrics while being turned.....	W. B. Smith.....	167,277	Aug. 31, 1875	1077	336	8	384
Chuck for making swelled tenons.....	A. D. Ruff.....	161,706	Apr. 6, 1875	98	34	7	583
Chuck for veneer-cutting machines, Compound.....	E. J. Granger.....	162,913	May 4, 1875	161	52	7	768
Chuck, Metal-drill.....	T. Hoppe.....	171,383	Dec. 21, 1875	711	235	8	1060
Chuck, Metal-drill.....	G. M. Pratt.....	164,032	June 1, 1875	166	59	7	953
Chuck, Planer.....	J. C. Mulberry.....	167,618	Sept. 14, 1875	224	70	8	445
Chuck, Planer.....	A. B. Prouty, L. Coes, and G. C. Taft.....	164,934	June 29, 1875	1060	342	7	1107
Chuck, Planer.....	H. Thomas.....	168,064	Sept. 21, 1875	647	205	8	514
Chuck, Planing.....	G. V. Seaver.....	167,572	Sept. 7, 1875	169	53	8	430
Chuck, Rock-drill.....	J. C. Githens.....	164,991	June 29, 1875	1106	357	7	1113
Chuck, Rock-drill.....	G. H. Reynolds and W. Tefft.....	163,257	May 11, 1875	500	163	7	819
Chuck, Rock-drill.....	H. Thomas.....	162,938	Oct. 19, 1875	598	198	8	665
Chuck, Scroll.....	J. H. Westcott.....	159,989	Feb. 16, 1875	720	239	7	295
Church-pew.....	I. Lancaster.....	167,910	Sept. 21, 1875	498	158	8	492
Churn.....	D. C. Bailey.....	160,139	Feb. 23, 1875	867	286	7	324
Churn.....	J. C. Baker.....	168,123	Sept. 22, 1875	719	226	8	530

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Churn	F. H. Boggs	168,218	Sept. 28, 1875	803	256	8	543
Churn	D. M. D. D. Brown	171,265	Dec. 21, 1875	608	199	8	1046
Churn	J. Butler	166,745	Aug. 17, 1875	552	169	8	294
Churn	J. F. Coe	167,500	Sept. 7, 1875	102	32	8	421
Churn	J. E. Finley	158,365	Jan. 5, 1875	14	5	7	10
Churn	D. W. George and J. J. Stutzman	160,418	Mar. 2, 1875	144	50	7	369
Churn	E. Groat	167,893	Sept. 21, 1875	486	153	8	490
Churn	A. D. Grose	168,392	Oct. 5, 1875	66	23	8	574
Churn	G. P. Herndon	161,230	Mar. 23, 1875	917	300	7	500
Churn	E. Husher	168,024	Sept. 21, 1875	594	190	8	507
Churn	T. B. Jewett	161,794	Apr. 6, 1875	174	60	7	594
Churn	M. Jinks	162,560	Apr. 27, 1875	921	295	7	716
Churn	W. P. Jones	168,748	Oct. 11, 1875	416	135	8	631
Churn	P. La Tourrette	161,525	Mar. 30, 1875	1220	392	7	546
Churn	W. P. Mangum	167,918	Sept. 21, 1875	504	160	8	493
Churn	J. W. McClure	167,774	Sept. 14, 1875	367	116	8	465
Churn	A. Meyer	159,600	Feb. 9, 1875	343	114	7	240
Churn	A. Oot	162,494	Apr. 27, 1875	866	278	7	709
Churn	C. W. Patton	161,633	Apr. 6, 1875	39	15	7	574
Churn	V. W. Pickett	162,098	Apr. 13, 1875	451	150	7	642
Churn	B. F. Price	162,308	Apr. 20, 1875	662	216	7	676
Churn	W. Redheffer	166,893	Aug. 17, 1875	687	213	8	313
Churn	H. A. Simison	161,166	Mar. 23, 1875	857	280	7	491
Churn	J. W. Simmons	160,288	Mar. 2, 1875	28	11	7	353
Churn	I. E. Smith	168,533	Oct. 5, 1875	195	64	8	592
Churn	J. Watson	171,331	Dec. 21, 1875	662	218	8	1053
Churn	J. L. Wilson	159,878	Feb. 16, 1875	617	204	7	282
Churn-cap	W. Manee	167,264	Aug. 31, 1875	1067	332	8	382
Churn-dasher	J. D. Bright and J. N. De Guire	167,493	Sept. 7, 1875	97	30	8	420
Churn-dasher	R. M. Case	171,097	Dec. 14, 1875	418	139	8	1014
Churn-dasher	G. W. Eichholtz	167,512	Sept. 7, 1875	114	36	8	423
Churn-dasher	J. E. Finley	158,364	Jan. 5, 1875	14	5	7	10
Churn-dasher	W. H. Silver	164,491	June 15, 1875	628	203	7	1034
Churn-dasher	E. Steadman	170,126	Nov. 16, 1875	792	251	8	854
Churn-dasher	J. R. Underwood	171,069	Dec. 14, 1875	391	130	8	1009
Churn-dasher, Reciprocating	H. A. Stearns	166,231	Aug. 3, 1875	43	14	8	205
Churn-dasher, Reciprocating	I. J. Whitlatch	166,436	Aug. 3, 1875	239	73	8	233
Churn-dasher, Rotary	W. C. Chamberlain	164,143	June 8, 1875	289	99	7	981
Churn-dasher, Rotary	J. J. Robinson	164,215	June 8, 1875	352	120	7	990
Churn, &c., motor	H. Odell	160,461	Mar. 2, 1875	183	63	7	375
Churn, Reciprocating	G. De Nottbeck	163,365	May 18, 1875	620	198	7	851
Churn, Reciprocating	E. A. Firby, jr.	168,976	Oct. 19, 1875	632	209	8	670
Churn, Reciprocating	A. Goodnough and T. T. Dernen	165,560	July 13, 1875	421	127	8	75
Churn, Reciprocating	W. Howe	162,821	May 4, 1875	78	25	7	757
Churn, Reciprocating	W. McKinley	170,877	Dec. 7, 1875	195	67	8	977
Churn, Reciprocating	W. H. Price and R. Hoover	164,034	June 1, 1875	168	59, 60	7	954
Churn, Reciprocating	D. Rowland	165,954	July 27, 1875	822	252	8	157
Churn, Rotary	J. L. Barden and S. Crudden	166,181	Aug. 3, 1875	1	1	8	199
Churn, Rotary	S. S. Beekly	162,995	May 11, 1875	259	84	7	789
Churn, Rotary	J. Goodman	164,293	June 8, 1875	430	143	7	999
Churn, Rotary	H. Felt and P. P. Child	165,086	June 29, 1875	1186	382	7	1124
Churn, Rotary	W. R. Lampton	168,506	Oct. 5, 1875	169	54	8	588
Churn, Rotary	T. Landt	165,739	July 20, 1875	597	183	8	115
Churn, Rotary	O. M. Merrick	164,387	June 15, 1875	532	175	7	1022
Churn, Rotary	M. Payne	169,835	Nov. 9, 1875	520	162	8	809
Churn, Rotary	J. J. Shelton	165,033	June 29, 1875	1140	368	7	1118
Churn, Rotary	C. H. Warren	162,723	Apr. 27, 1875	1083	343	7	736
Churn stand, Barrel	J. H. Dunbar	164,535	June 15, 1875	663	214	7	1039
Churns, Cream-saver for reciprocating	R. Whiting	159,237	Jan. 26, 1875	863	281	7	165
Chute for discharging coal from vehicles	D. P. Bitner	169,618	Nov. 9, 1875	293	95	8	782
Chute reverser, Drop	J. B. Crowthers and W. R. Wilkins	160,308	Mar. 2, 1875	45	17	7	355
Cider and wine press	J. S. Bogle	162,609	Apr. 27, 1875	961	309	7	721
Cider, Manufacturing	W. H. Gilmore	163,182	May 11, 1875	431	.....	7	811
Cider-mill	J. Bowen	166,251	Aug. 3, 1875	60	19	8	207
Cider-mill	E. Curtiss	160,397	Mar. 2, 1875	122	45	7	366
Cider-mill	T. A. Galt and G. S. Tracy	164,644	June 22, 1875	771	253	7	1062
Cider mill and press	H. Krumsick	170,275	Nov. 23, 1875	952	298	8	883
Cider-press	D. F. Emry	161,397	Mar. 30, 1875	1098	356	7	530
Cider, &c., press	H. Krumsick	163,085	May 11, 1875	341	111	7	799
Cider-press	L. D. Rockwood	171,633	Dec. 28, 1875	977	316	8	1104
Cider-press	H. Sells	164,045	June 1, 1875	178	64	7	955
Cider-press	D. C. Starks	162,257	Apr. 20, 1875	618	{ 201 } { 202 }	7	670
Cigar	M. Rosenthal	170,901	Dec. 7, 1875	215	75	8	980
Cigar	S. S. Wilcox and C. F. Carr	168,310	Sept. 28, 1875	884	282	8	554
Cigar-box	B. Ash	163,438	May 18, 1875	681	217	7	860
Cigar-box	C. S. Brown	169,769	Nov. 9, 1875	455	143	8	802
Cigar-box	W. Ellis	165,664	July 20, 1875	534	163	8	106
Cigar-box	C. Glund	162,234	Apr. 20, 1875	641	209	7	673
Cigar-box	S. Heineman	166,100	July 27, 1875	962	296	8	177
Cigar-box	S. Jacoby	159,825	Feb. 16, 1875	566	188	7	275
Cigar-box	M. Lichtenstein	166,534	Aug. 10, 1875	341	104	8	255
Cigar-box lock	H. Silberman	168,112	Sept. 28, 1875	706	223	8	529
Cigar-boxes, Revenue-guard for	O. T. Earle	167,752	Sept. 14, 1875	345	{ 109 } { 110 }	8	462
Cigar bunching and wrapping machine	B. H. Meyer	162,674	Apr. 27, 1875	1023	327	7	729
Cigar-bunching machine	J. Battis, 2d	160,380	Mar. 2, 1875	108	39	7	364
Cigar-bundling machine	N. Du Brul	166,591	Aug. 10, 1875	389	120	8	262
Cigar-cutter	J. Shepard	171,584	Dec. 28, 1875	915	300	8	1097
Cigar-lighter, Glass	W. A. Gorby	168,981	Oct. 19, 1875	637	210	8	671
Cigar-lighters, Machine for making	N. Fuller	168,835	Oct. 19, 1875	504	164	8	652
Cigar-machine	R. Appleby	165,911	July 27, 1875	779	239	8	153
Cigar-machine	F. H. Donath and C. E. F. Jasper	169,786	Nov. 9, 1875	472	149	8	804
Cigar-machine	W. E. Hennaman	167,243	Aug. 31, 1875	1050	{ 325 } { 327 }	8	380

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Cigar-machine.....	C. Talbotclarke	170,030	Nov. 16, 1875	699	220	8	841
Cigar-machine.....	J. Wettstein	160,492	Mar. 2, 1875	213	74	7	379
Cigar-maker's paste-box.....	M. Wilhelm	167,376	Aug. 31, 1875	1166	367	8	397
Cigar-mold	R. Appleby	161,651	Apr. 6, 1875	55	20	7	577
Cigar-mold	J. D. Culp	169,778	Nov. 9, 1875	462	146	8	803
Cigar-mold	N. Du Brul	159,165	Jan. 26, 1875	793	260	7	155
Cigar-mold	N. Du Brul	164,981	June 29, 1875	1097	354	7	1112
Cigar-mold	W. A., and A. Osenbruck	158,513	Jan. 5, 1875	144	48	7	29
Cigar-mold	S. Simonson	166,154	July 27, 1875	1015	313	8	185
Cigar-mold	H. Voltz	169,207	Oct. 26, 1875	860	280	8	710
Cigar-mold fastening	S. Simonson	162,701	Apr. 27, 1875	1055	336	7	733
Cigar-mold press	J. Simpson	166,643	Aug. 10, 1875	437	135	8	269
Cigar-molds, Machine for charging	N. Dubrul	161,015	Mar. 23, 1875	716	236	7	474
Cigar-molds, Machinery for making	T. D. McGuire	171,152	Dec. 14, 1875	475	155	8	1021
Cigar mouth-piece.....	J. Campbell	163,358	May 18, 1875	613	196	7	851
Cigar mouth-piece.....	C. Reinisch	169,119	Oct. 26, 1875	791	256	8	699
Cigar-packing implement.....	S. Jacoby	159,929	Feb. 16, 1875	663	219	7	288
Cigar-pipe.....	R. L. Weed	169,501	Nov. 2, 1875	159	53	8	757
Cigar-press	W. P. Smith	163,272	May 11, 1875	515	167	7	821
Cigar-press	F. Svoboda and F. Luxa	161,715	Apr. 6, 1875	105	38	7	584
Cigar, Self-lighting	C. L. Ridgway	159,709	Feb. 9, 1875	441	148	7	254
Cigar-tip	F. Bourne	163,141	May 11, 1875	392	126	7	806
Cigar-tip cutter and and watch-charm, Combined.....	E. F. W. Eisenmann	164,984	June 29, 1875	1099	355	7	1112
Cigar-wrapper knife.....	J. E. Brechbiel	162,792	May 4, 1875	56	18	7	754
Cigars, Case for freshing	W. E. Chandlee and E. H. King	164,806	June 22, 1875	919	298	7	1082
Cigars, Packing	S. Jacoby	158,714	Jan. 12, 1875	336	115	7	71
Cigars, Packing	E. Norton	163,395	May 18, 1875	646	207	7	855
Cigarette-maker.....	J. Shepard	168,790	Oct. 11, 1875	452	147	8	636
Cigarette mouth-piece.....	D. Marquis	170,752	Dec. 7, 1875	90	29	8	962
Circuit-closer, Electrical.....	L. L. Duerden	163,753	May 25, 1875	930	310	7	906
Circus-seat.....	G. T. Fisher	168,631	Oct. 11, 1875	315	102	8	616
Circus-seat.....	W. H. Shuey	163,537	May 18, 1875	779	247	7	872
Cistern.....	J. S. Snider	159,364	Feb. 2, 1875	111	38	7	199
Cistern-cover.....	S. Haffter	165,997	July 27, 1875	864	266	8	163
Cistern-supply regulator, Automatic.....	T. Van Kannel	161,457	Mar. 30, 1875	1151	371	7	537
Cistern-top and filter, Combined.....	E. D. Stacey	158,605	Jan. 12, 1875	240	81	7	58
Cisterns, Apparatus for walling	F. Wilford	159,239	Jan. 26, 1875	865	282	7	165
Clamp:							
See Bale-tie clamp. Halter-clamp.							
Book-clamp. Hose-clamp.							
Boot-clamp. Joiner's clamp.							
Button-hole-guide clamp. Leaf-pressing clamp.							
Candle-holder clamp. Planking-clamp.							
Cement-pipe clamp. Quilting-frame clamp.							
Clothes-clamp. Rubber-dam clamp.							
Core-anchoring clamp. Saw-clamp.							
Floor-clamp. Scaffold-clamp.							
Flooring-clamp. Soldering-clamp.							
Thill-coupling clamp.							
Trunk-corner clamp.							
Clamp.....	C. H. Fuchs	163,006	May 11, 1875	268	87	7	790
Clamp.....	S. Kuh	160,778	Mar. 16, 1875	505	164	7	436
Clamp.....	S. Rydbeck	160,960	Mar. 16, 1875	661	216	7	457
Clamp.....	T. Sandbach	167,127	Aug. 24, 1875	923	288	8	355
Clamp.....	J. J. Squire	162,866	May 4, 1875	119	39	7	762
Clamp.....	W. L. Walker and B. G. Devoe	168,593	Oct. 11, 1875	276	90	8	610
Clamping-device	J. R. Maxwell and C. A. Scott	162,180	Apr. 20, 1875	548	180	7	662
Clams and oysters for food, Preparing.....	C. Alden	168,703	Oct. 11, 1875	374	.....	8	625
Clasp:							
See Apparel-clasp. Stocking or skirt sup-							
Book-clasp. porter clasp.							
Corset-clasp. Stocking-supporter							
Dress-supporter clasp. clasp.							
Glove-clasp. Ticket-clasp.							
Pocket-book clasp. Whip-socket clasp.							
Scarf-slide clasp. Window-shade clasp.							
Clasp	G. Frost and G. H. Phelps	169,983	Nov. 16, 1875	661	207	8	836
Clasp	J. Perkins	171,314	Dec. 21, 1875	649	213	8	1051
Claw-bar	A. Shaw	166,818	Aug. 17, 1875	614	190	8	303
Clay pipes and apparatus for molding the same.....	W. K. Black	159,146	Jan. 26, 1875	778	255	7	153
Clay-press	J. Watson	169,871	Nov. 9, 1875	553	173	8	814
Clay, &c., pulverizing machine	J. K. Caldwell	167,742	Sept. 14, 1875	330	106	8	460
Clay-pulverizing machine	J. N. Kerper	170,742	Dec. 7, 1875	80	25, 26	8	961
Cleaner:							
See Boiler-flue cleaner. Flue-cleaner.							
Boiler-tube cleaner. Grain-cleaner.							
Boot and shoe cleaner. Grass-seed cleaner.							
Carpet-cleaner. Knife-cleaner.							
Cotton-cleaner. Plow-colter cleaner.							
Cotton-seed cleaner. Tube-cleaner.							
Cleaning-compound	D. McGugin, J. R. Lybarger, and F. M. Hibbets.	170,682	Dec. 7, 1875	27	.....	8	954
Cleat and hawser clamp, Combined	F. W. Hofele	170,628	Nov. 30, 1875	1296	409	8	938
Clevis	C. H. Foss	159,662	Feb. 9, 1875	397	132	7	247
Clevis	E. O. Harvey	159,549	Feb. 9, 1875	307	99	7	234
Clevis	J. G. Miller	170,758	Dec. 7, 1875	95	31	8	963
Clevis-pins, Manufacture of	W. J. Lewis	170,481	Nov. 30, 1875	1155	364	8	919
Clevis, Safety	C. N. Poundstone	165,253	July 6, 1875	102	30	8	23
Clip:							
See Axle-clip. Harness-clip.							
Book-clip. Paper-clip.							
Carriage-clip. Tramway-clip.							
Double-tree clip. Whiffletree-clip.							

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Clipper, Animal	T. L. Phipps	166, 631	Aug. 10, 1875	424	{ 131 132 }	8	267
Clock	R. H. Strong	162, 430	Apr. 20, 1875	784	255	7	690
Clock, Calendar	A. A. Cowles	165, 548	July 13, 1875	411	124	8	73
Clock, Calendar	L. L. Kellogg	165, 840	July 20, 1875	704	214	8	129
Clock, Calendar	W. A. Terry	165, 432	July 13, 1875	301	89	8	57
Clock, Calendar-movement	T. H. Mott	161, 813	Apr. 6, 1875	193	65	7	597
Clock-case	H. J. Davies	161, 211	Mar. 23, 1875	893	293	7	497
Clock-case	W. N. Weeden	167, 963	Sept. 21, 1875	537	172	8	499
Clock, Electric	E. Clark	171, 098	Dec. 14, 1875	418	139	8	1014
Clock, Electric	D. F. Sweet	169, 057	Oct. 19, 1875	708	234	8	680
Clock-escapement	G. W. White and W. L. Leary	163, 125	May 11, 1875	377	122	7	804
Clock frame or case	H. J. Davies	159, 160	Jan. 26, 1875	789	259	7	155
Clock, Geographical	S. J. Wallace	170, 212	Nov. 23, 1875	895	280	8	874
Clock-movement holder	W. H. Brickett	158, 619	Jan. 12, 1875	252	85	7	60
Clock, Pendulum	F. Eckel	161, 674	Apr. 6, 1875	75	26	7	579
Clock, Pendulum	V. Himmer	163, 868	June 1, 1875	29	9	7	934
Clock-striking mechanism	G. H. Blakesley	162, 018	Apr. 13, 1875	381	128	7	633
Clock-striking mechanism	A. Schmidt	171, 583	Dec. 28, 1875	914	299	8	1096
Clock, Tower	C. Fasoldt	165, 991	July 27, 1875	859	264	8	162
Clock-winding device	E. Farcot	166, 518	Aug. 10, 1875	329	100	8	253
Clock-work, Electric circuit-breaking	D. Rousseau	168, 185	Sept. 28, 1875	775	246	8	539
Clock-work, Electric winding mechanism for	J. W. Wignall	165, 396	July 6, 1875	243	73, 74	8	41
Clocks, Globe attachment to	H. Fick	169, 687	Nov. 9, 1875	372	116	8	791
Clocks, Lock-work attachment to	R. T. Andrews	171, 496	Dec. 28, 1875	836	274	8	1085
Clocks, Lock-work attachment to	E. C. Covell and M. M. Robinson	168, 620	Oct. 11, 1875	301	98	8	615
Closet:							
See Earth-closet.	Water-closet.						
Cloth bag	T. W. Grinter	164, 549	June 15, 1875	677	220	7	1041
Cloth bag	T. W. Grinter	164, 550	June 15, 1875	678	220	7	1041
Cloth-cutting machine	C. F. Harlow	162, 547	Apr. 27, 1875	910	{ 291 292 }	7	714
Cloth-cutting machine	A. Warth	165, 636	July 13, 1875	493	{ 150 151 }	8	85
Cloth for japanning, Clasp for uniting ends of	B. Atha	166, 059	July 27, 1875	918	284	8	171
Cloth-friezing machine	G. G. Bishop	161, 588	Apr. 6, 1875	2	1	7	569
Cloth-friezing machine	G. G. Bishop	165, 657	July 20, 1875	526	161	8	105
Cloth-mapping machine	B. Thackrah	169, 742	Nov. 9, 1875	422	134	8	798
Cloth, &c., Plate for guiding a hand-knife in cutting	J. Laemann	158, 801	Jan. 19, 1875	435	145	7	100
Cloth press	W. Hebdon	168, 017	Sept. 21, 1875	587	188	8	506
Cloth-pressing machine	W. Hebdon	160, 594	Mar. 9, 1875	315	107	7	403
Cloth-scouring machine	O. Franke	167, 396	Sept. 7, 1875	16	5	8	409
Cloth-shearing machine	I. L. Holmes	160, 825	Mar. 16, 1875	547	{ 177 178 }	7	441
Cloth-steaming machine	J. Shinn	164, 697	June 22, 1875	821	268	7	1069
Cloth steaming, smoothing, and drying machine	W. Hebdon	165, 576	July 13, 1875	435	132	8	77
Cloth-tentering machine	W. H. Palmer, jr	164, 587	June 15, 1875	708	230	7	1046
Cloth-testing machine	W. Hebdon	166, 366	Aug. 3, 1875	162	50	8	222
Cloth winding and measuring machine	J. Wayland	162, 438	Apr. 20, 1875	791	257	7	691
Cloth-winding machine	S. C. Dickinson	169, 240	Oct. 26, 1875	893	290	8	714
Clothes and hat rack	R. R. Dorr	158, 476	Jan. 5, 1875	111	37	7	24
Clothes and quilting frame, Combined	M. Churchill	160, 306	Mar. 2, 1875	43	16	7	355
Clothes-clamp	G. W. Kniffin	167, 673	Sept. 14, 1875	270	85	8	451
Clothes-clamps, Machine for slatting and drilling	M. Pratt	170, 394	Nov. 23, 1875	1059	333	8	897
Clothes-drier	W. Adams	169, 939	Nov. 16, 1875	626	194	8	831
Clothes-drier	G. Bent	163, 353	May 18, 1875	610	195	7	850
Clothes-drier	W. Bloomer	163, 972	June 1, 1875	110	37	7	946
Clothes-drier	A. Brogonier	168, 605	Oct. 11, 1875	287	93	8	612
Clothes-drier	G. A. Brooks	169, 517	Nov. 2, 1875	175	58	8	759
Clothes-drier	H. J. Brown	170, 812	Dec. 7, 1875	141	47	8	969
Clothes-drier	F. M. Clark	170, 235	Nov. 23, 1875	918	286	8	877
Clothes-drier	G. W. Green	170, 253	Nov. 23, 1875	935	291	8	880
Clothes-drier	M. C. Griffith	161, 406	Mar. 30, 1875	1106	358	7	531
Clothes-drier	C. Hauser	164, 733	June 22, 1875	853	277	7	1073
Clothes-drier	E. S. Heath	163, 928	June 1, 1875	76	25	7	941
Clothes-drier	J. P. Hill	165, 674	July 20, 1875	542	165	8	107
Clothes-drier	C. Howes	159, 823	Feb. 16, 1875	565	188	7	275
Clothes-drier	S. R. Kidder	168, 751	Oct. 11, 1875	419	137	8	632
Clothes-drier	M. N. Lovell	167, 615	Sept. 14, 1875	222	69	8	444
Clothes-drier	S. P. Mecay	168, 658	Oct. 11, 1875	339	110	8	620
Clothes-drier	G. Myers	168, 843	Oct. 19, 1875	511	167	8	653
Clothes-drier	H. V. Osborne and R. Hay	168, 178	Sept. 28, 1875	769	244	8	538
Clothes-drier	T. G. Saint	170, 495	Nov. 30, 1875	1165	{ 367 368 }	8	921
Clothes-drier	C. Schifferly	167, 694	Sept. 14, 1875	288	91	8	454
Clothes-drier	C. T. Shafer	158, 392	Jan. 5, 1875	35	13	7	14
Clothes-drier	J. Sutton	167, 708	Sept. 14, 1875	302	96	8	456
Clothes-drier	J. Theobald	164, 338	June 8, 1875	471	156	7	1005
Clothes-drier	L. A. Wait	168, 688	Oct. 11, 1875	360	118	8	624
Clothes-drier	I. Whipple	160, 980	Mar. 16, 1875	677	222	7	459
Clothes-drier	H. Winter	166, 053	July 27, 1875	913	282	8	170
Clothes-frame	P. Cameron	160, 156	Feb. 23, 1875	883	291	7	326
Clothes-frame	J. H. Chadwick	160, 160	Feb. 23, 1875	886	292	7	326
Clothes-frame	G. G. Crowley	167, 072	Aug. 24, 1875	870	271	8	348
Clothes-frame	C. T. Rowe	161, 554	Mar. 30, 1875	1245	400	7	550
Clothes-frame	C. F. Smith	160, 359	Mar. 2, 1875	91	33	7	362
Clothes-frame	A. T. Whipple	161, 649	Apr. 6, 1875	53	20	7	576
Clothes-frame	C. Wright	160, 046	Feb. 23, 1875	790	260	7	312
Clothes-line	T. S. Carey	159, 076	Jan. 26, 1875	718	237	7	145
Clothes-line fastener	H. Moss	167, 350	Aug. 31, 1875	1141	359	8	393
Clothes-line prop	C. C. Schwaner	170, 775	Dec. 7, 1875	111	35	8	965
Clothes-line reel	C. L'Hommedieu	169, 453	Nov. 2, 1875	118	38	8	751
Clothes-line reel	E. D. Richardson	166, 478	Aug. 10, 1875	297	89	8	248
Clothes-line reel	A. Thompson	165, 696	July 20, 1875	561	171	8	110
Clothes-line support	J. N. Fuller	160, 315	Mar. 2, 1875	55	20	7	356
Clothes-pin	G. R. Farrington and B. S. Potter	160, 661	Mar. 9, 1875	363	126	7	411

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Clothes-pin	H. C. Hill	168,332	Oct. 5, 1875	15	6	8	566
Clothes-pin	E. F. Krelwitz	164,461	June 15, 1875	604	195	7	1031
Clothes-pin	H. H. Mason	170,579	Nov. 30, 1875	1248	393	8	931
Clothes-pin	W. H. Mayo	161,138	Mar. 23, 1875	836	272	7	488
Clothes-pin	U. D. Mihills	166,022	July 27, 1875	885	274	8	167
Clothes-pin	D. F. Porter	160,840	Mar. 16, 1875	559	181	7	443
Clothes-pin	G. Topping	166,160	July 27, 1875	1021	314	8	186
Clothes-pin machine	J. W. Millet	160,783	Mar. 16, 1875	513	166	7	436
Clothes-pounder	S. M. Allen	168,206	Sept. 28, 1875	795	252	8	542
Clothes-pounder	W. H. Castle	163,739	May 25, 1875	969	306	7	904
Clothes-pounder	E. Crowell	169,963	Nov. 16, 1875	644	201	8	833
Clothes-pounder	A. French and J. S. Lash	168,247	Sept. 28, 1875	829	264	8	546
Clothes-pounder	A. J. Harmon	166,458	Aug. 10, 1875	281	84	8	246
Clothes-pounder	C. B. and G. W. Hart	162,548	Apr. 27, 1875	911	292	7	715
Clothes-pounder	D. W. Rawson	166,224	Aug. 3, 1875	36	12	8	204
Clothes-pounder	O. F. Stedman	166,424	Aug. 3, 1875	225	68	8	230
Clothes-sprinkler	W. Olson	160,698	Mar. 9, 1875	406	136	7	416
Clothes-washer	H. E. Smith	166,646	Aug. 10, 1875	440	136	8	269
Clothes-wringer	I. F. Brown	161,662	Apr. 6, 1875	66	24	7	578
Clothes-wringer	W. T. Bunnell and A. G. Roman	166,067	July 27, 1875	926	286	8	172
Clothes-wringer	O. F. Glidden	158,369	Jan. 5, 1875	17	6	7	11
Clothes-wringer	M. A. Johnson	169,643	Nov. 9, 1875	324	102	8	785
Clothes-wringer	F. and M. Way	161,309	Mar. 23, 1875	994	325	7	509
Clothes-wringer	P. N. Woliston	159,996	Feb. 16, 1875	725	241	7	296
Clothing for women, Under	S. T. Converse	166,190	Aug. 3, 1875	9	3	8	200
Clover-separator	G. F. Metzger and J. P. Kohler	171,237	Dec. 21, 1875	580	190	8	1042
Clutch	A. Swingle	171,063	Dec. 14, 1875	386	128	8	1009
Clutch	B. F. Young	169,394	Nov. 2, 1875	69	21	8	744
Clutch, Friction	I. Arnold	164,898	June 29, 1875	1025	331	7	1103
Clutch, Friction	T. E. Barrow	169,614	Nov. 9, 1875	291	94	8	781
Clutch, Friction	E. S. M. Fernald	160,264	Mar. 2, 1875	8	4	7	350
Clutch, Friction	G. H. Starbuck	159,464	Feb. 2, 1875	210	68	7	213
Clutch, Power-press	A. H. Merriman	164,690	June 22, 1875	813	265 266	7	1068
Coach-pad	S. A. Marker	171,150	Dec. 14, 1875	473	154 155	8	1020
Coal-agglomerating press	A. G. Lasserre	168,031	Sept. 21, 1875	603	192 193	8	508
Coal and ore separator	J. B. Wilford	170,142	Nov. 16, 1875	810	255	8	856
Coal and other elevators	S. Winslow and T. Goldsmith	161,584	Mar. 30, 1875	1275	410	7	553
Coal, Apparatus for separating slate from	S. Broadbent, C. W. Zeigler, and W. B. Culver	161,744	Apr. 6, 1875	134	46	7	588
Coal-barge	G. B. Martin and J. A. Preston	168,655	Oct. 11, 1875	336	109	8	620
Coal-box	J. Forster	158,837	Jan. 19, 1875	468	157	7	105
Coal-box	J. L. Holliday	158,797	Jan. 19, 1875	432	144	7	100
Coal breakers or crackers, Toothed roller for	W. Munson	169,054	Nov. 9, 1875	333	105	8	786
Coal-breaking roll	R. Jones	171,140	Dec. 14, 1875	462	151	8	1019
Coal-chute	R. Dunbar and J. Keegan	164,278	June 8, 1875	416	139	7	998
Coal-chute, Extensible	J. M. Lafferty	162,832	May 4, 1875	87	29	7	758
Coal-chute, Portable	R. R. Hoopes	170,856	Dec. 7, 1875	178	61	8	974
Coal-drying apparatus	L. Jacobi	166,612	Aug. 10, 1875	409	126	8	265
Coal-dust, &c., into blocks, Machine for making	M. M. Pettes	170,587	Nov. 30, 1875	1254	395	8	932
Coal, &c., from a hopper, Feeding	J. B. Wilford	158,769	Jan. 12, 1875	383	130	7	78
Coal from slate, Separating	H. Bradford	166,252	Aug. 3, 1875	61	19	8	207
Coal-hod	U. D. Alexander	162,454	Apr. 27, 1875	830	267	7	705
Coal-hod	U. D. Alexander	165,698	July 20, 1875	562	172	8	110
Coal-hod	C. F. Barager	160,995	Mar. 23, 1875	700	230	7	471
Coal-hod	E. W. Byrn	159,540	Feb. 9, 1875	300	97	7	233
Coal-hod	E. W. Byrn	160,873	Mar. 16, 1875	584	190	7	446
Coal-hod	J. Cochran	166,851	Aug. 17, 1875	646	201	8	308
Coal-hod	J. B. Driscoll	163,752	May 25, 1875	979	310	7	906
Coal-hod	J. H. Murphy	161,433	Mar. 30, 1875	1129	464	7	534
Coal-hod	G. Seyfang	160,035	Feb. 23, 1875	781	257	7	311
Coal-hod	G. Seyfang	167,857	Sept. 21, 1875	456	144	8	486
Coal-hod	C. F. Thomas	161,577	Mar. 30, 1875	1270	408	7	553
Coal-holder	S. M. Whiteside and A. C. Holliday	163,126	May 11, 1875	378	123	7	804
Coal, &c., Mode of loading	C. H. Bass	158,567	Jan. 12, 1875	205	70	7	53
Coal-scuttle	H. Feldmeier and E. Stoepelwerth	162,367	Apr. 20, 1875	721	235	7	683
Coal-scuttle	H. Reynolds	158,523	Jan. 5, 1875	151	51	7	30
Coal-scuttle	R. M. Steele	165,515	July 13, 1875	381	113	8	68
Coal, Separating refuse from	S. Thomas	161,840	Apr. 6, 1875	222	74	7	600
Coal-separator	W. Buechley and T. Thorn	163,298	May 18, 1875	558	178	7	843
Coal-shelling drill	P. O. Donohoe	170,350	Nov. 23, 1875	1017	319	8	892
Coal-shovel	J. D. Tallmadge	163,703	May 25, 1875	935	297	7	900
Coal-vase	W. S. Potwin	165,947	July 27, 1875	817	250	8	157
Coal vase and fire-iron standard	G. J. Munschauer	165,248	July 6, 1875	98	29	8	22
Coat-loop, Metallic	F. W. Tilton	162,507	Apr. 27, 1875	879	281	7	711
Coat-patterns, Apparatus for laying out	Z. Bauer	163,911	June 1, 1875	61	21	7	939
Coat-shaper	E. B. Viets	160,246	Feb. 23, 1875	959	315	7	337
Coat-shaping apparatus	C. Franke	167,394	Sept. 7, 1875	15	4	8	408
Cock and anti-concussion valve, Combined	I. F. Van Duzer	165,190	July 6, 1875	50	14	8	15
Cock, Anti-freezing	S. T. Harker	169,694	Nov. 9, 1875	377	118	8	792
Cock, Automatic glass gage	A. W. Bee and I. W. Garrett	167,819	Sept. 21, 1875	420	133	8	481
Cock, Automatically-operated gas	E. Coe	164,146	June 8, 1875	291	99	7	981
Cock, Combined compression and swing	W. L. Brownell	169,652	Nov. 16, 1875	636	198	8	832
Cock, Combined shower and bath	H. J. Bailey	167,817	Sept. 21, 1875	417	133	8	481
Cock, Compression	J. McLaughlin	168,657	Oct. 11, 1875	338	110	8	620
Cock, Compression	P. White	169,873	Nov. 9, 1875	555	173	8	814
Cock for locomotives, Pet.	F. A. Casey	167,302	Aug. 31, 1875	1099	345	8	387
Cock, Gage	I. S. Hamilton	159,920	Feb. 16, 1875	655	217	7	287
Cock, Gage	J. F. Mullowny and T. S. Shaw	166,216	Aug. 3, 1875	29	10	8	203
Cock, Gage	T. J. Nottingham	160,459	Mar. 2, 1875	182	63	7	374

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Cock or valve	H. W. Heale and E. D. Gowan...	159,924	Feb. 16, 1875	658	218	7	287
Cock, Self-closing	W. Knaust	161,341	Mar. 30, 1875	1042	339	7	523
Cock, Self-closing hopper	H. Carruthers	159,900	Feb. 16, 1875	638	211	7	285
Cock, Self-closing water	J. B. Tougas	161,077	Mar. 23, 1875	773	254	7	481
Cock, Soda-water and sirup	W. Gee	158,483	Jan. 5, 1875	117	40	7	25
Cock, Stop	P. Bail	162,338	Apr. 20, 1875	689	225	7	679
Cock, Stop	W. W. Beckett	159,746	Feb. 16, 1875	495	165	7	266
Cock, Stop	J. G. L. Boettcher	171,344	Dec. 21, 1875	673	222	8	1055
Cock, Stop	O. T. Earle	167,751	Sept. 14, 1875	343	109	8	462
Cock, Stop	C. Franke	167,397	Sept. 7, 1875	17	5	8	409
Cock, Stop	J. L. Frisbie	164,538	June 15, 1875	666	216	7	1039
Cock, Stop	T. Holland	165,827	July 20, 1875	689	211	8	127
Cock, Stop	J. Mallinson	166,472	Aug. 10, 1875	292	87	8	248
Cock, Stop	J. C. Meeloon	161,698	Apr. 6, 1875	92	32	7	582
Cock, Stop	C. F. Murdock	167,463	Sept. 7, 1875	73	22	8	416
Cock, Stop	R. G. Smeaton	169,489	Nov. 2, 1875	149	49	8	755
Cock, Stop	A. Snyder	164,944	June 29, 1875	1068	344	7	1108
Cock, Stop	N. Upham	170,648	Nov. 30, 1875	1311	414	8	940
Cock, Stop and waste	R. J. Malcolm	170,576	Nov. 30, 1875	1240	391	8	931
Cocks of water-pipes by electricity, Apparatus for controlling way.	W. A. Crawford	159,394	Feb. 2, 1875	135	47	7	203
Cocoa-nut for domestic use, Process for preparing.	A. P. Ashbourne	163,962	June 1, 1875	102	.....	7	945
Cocoa-nut-grating mill	J. P. Anderson	163,434	May 18, 1875	678	216	7	859
Cocoa-nut meats, Machine for paring	E. Smith and E. C. Maltby	165,959	July 27, 1875	826	254	8	158
Coffee and tea pot	J. Noland and C. Neidich	163,233	May 11, 1875	477	155	7	817
Coffee, Composition for glazing roasted	J. H. Bell and J. H. Conrad	167,383	Sept. 7, 1875	3	.....	8	407
Coffee, Compound for polishing and coating	J. H. Siegman	166,641	Aug. 10, 1875	436	.....	8	269
Coffee-huller	D. Lombard	170,323	Nov. 23, 1875	1045	328	8	896
Coffee-mill	W. J. Lane	159,517	Feb. 9, 1875	281	91	7	230
Coffee-mill	T. Strobbridge	159,467	Feb. 2, 1875	213	69	7	214
Coffee-mill	R. L. Webb	168,307	Sept. 28, 1875	880	282	8	554
Coffee-pot	R. L. Bate	163,351	May 18, 1875	609	194	7	850
Coffee-pot	J. Boyers	162,347	Apr. 20, 1875	701	228	7	680
Coffee-pot	S. Crowell	169,626	Nov. 9, 1875	301	97	8	783
Coffee-pot	M. J. Dewald	168,237	Oct. 5, 1875	11	4	8	566
Coffee-pot	E. F. Kennedy	164,182	June 8, 1875	325	111	7	986
Coffee-pot	N. S. McFarland	161,254	Mar. 23, 1875	946	308	7	503
Coffee-pot	C. B. Smith	161,640	Apr. 6, 1875	45	17	7	575
Coffee-pot	H. W. Watson	163,286	May 11, 1875	531	171	7	824
Coffee-pot	S. P. Webber	163,426	May 18, 1875	670	214	7	858
Coffee-pot attachment	S. S. Hoover	168,253	Sept. 28, 1875	835	266	8	547
Coffee-pot spout	N. S. McFarland	163,502	May 18, 1875	746	237	7	868
Coffee-pot strainer	R. E. Clark	171,601	Dec. 28, 1875	930	305	8	1099
Coffee-roaster	G. Boyd	160,384	Mar. 2, 1875	111	41	7	365
Coffee-roaster	M. W. Fry	159,405	Feb. 2, 1875	149	50	7	205
Coffee-roaster	F. Thomas	169,059	Oct. 19, 1875	710	234	8	680
Coffee-roaster	F. Thomas	169,498	Nov. 2, 1875	157	52	8	756
Coffee-steepener	E. R. Daken	164,530	June 15, 1875	659	213	7	1038
Coffee-urn	H. C. Wilcox	160,633	Mar. 9, 1875	347	117	7	408
Coffin	J. M. Currier	171,101	Dec. 14, 1875	421	140	8	1014
Coffin	F. S. Haden	168,250	Sept. 28, 1875	833	.....	8	547
Coffin	J. Richey and L. H. McDougall	167,691	Sept. 14, 1875	285	90	8	454
Coffin-handle	M. H. Crane	164,812	June 22, 1875	927	300	7	1083
Coffin-handle	J. S. Ray	162,949	May 4, 1875	198	64	7	773
Coffin-handle	T. C. Richards	169,922	Nov. 16, 1875	612	190	8	829
Cog-wheel	C. E. Brooks	170,049	Nov. 16, 1875	718	228	8	844
Coke and illuminating-gas, Apparatus for the manufacture of.	J. T. B. Bennett	161,377	Mar. 30, 1875	1080	350	7	523
Coke-crushing machine	C. Glazier	160,765	Mar. 16, 1875	495	161	7	434
Collapsible boat	E. L. Berthon	167,214	Aug. 31, 1875	1025	318	8	376
Collar and frame, Combined horse	A. Macauley	166,932	Aug. 24, 1875	736	228	8	329
Collar and hame, Horse	J. J. Schneider and A. S. Meek	161,446	Mar. 30, 1875	1140	367	7	536
Collar and muf, Combined	C. Statmann	167,799	Sept. 14, 1875	387	124	8	468
Collar ends, Machine for folding and pasting	C. Spofford	161,833	Apr. 6, 1875	214	72	7	599
Collar ends, Machine for pasting and folding	C. Spofford	171,586	Dec. 28, 1875	916	300	8	1097
Collar fastening, Horse	V. M. Beamer	161,736	Apr. 6, 1875	127	44	7	587
Collar, Horse	G. F. Beardsley	163,444	May 18, 1875	686	219	7	860
Collar, Horse	T. Cheal	161,930	Apr. 13, 1875	314	105	7	624
Collar, Horse	E. B. Crawford	168,723	Oct. 11, 1875	390	128	8	628
Collar, Horse	L. W. Harbaugh	160,318	Mar. 2, 1875	57	20	7	357
Collar, Horse	J. Meyer	171,404	Dec. 21, 1875	733	240	8	1063
Collar, Horse	W. J. Thorn	164,342	June 8, 1875	474	157	7	1005
Collar, Horse	G. Van Wagenen and M. D. Goble	169,933	Nov. 16, 1875	621	192	8	830
Collar pad, Harness	M. Klein	171,144	Dec. 14, 1875	465	152	8	1019
Collar pads, Machine for pressing horse	A. P. Mason and G. and H. W. Chamberlin	163,091	May 11, 1875	347	113	7	800
Collar, Shirt	J. C. Wall and C. Ludington	164,617	June 15, 1875	732	239	7	1049
Colliery-plant	R. A. Wilder	167,719	Sept. 14, 1875	309	98	8	457
Colors on fabrics, Method of fixing and developing	C. T. Meig	166,287	Aug. 3, 1875	95	29	8	212
Colter	F. and J. H. Culver	169,678	Nov. 9, 1875	354	112	8	789
Colter	A. M. Davis	160,309	Mar. 2, 1875	46	17	7	355
Colter	G. C. Lyons	168,840	Oct. 19, 1875	507	166	8	653
Colter	A. P. Webber	158,552	Jan. 5, 1875	173	60	7	33
Colter attachment	J. S. Johnston	167,256	Aug. 31, 1875	1061	330	8	381
Column, Iron	G. B. Davids	158,689	Jan. 12, 1875	315	107	7	68
Column, Metallic	C. H. Leidy	167,179	Aug. 31, 1875	997	310	8	372
Column, Rolled iron	J. B. and J. M. Cornell	162,999	May 11, 1875	263	85	7	790
Column, Wrought-iron	J. B. Cornell	159,305	Feb. 2, 1875	55	20	7	192
Column, Wrought-iron	J. B. Cornell	160,574	Mar. 9, 1875	297	101	7	400
Columns and cylinders, Machine for capping the joint-flanges of hollow.	J. L. Piper	167,117	Aug. 24, 1875	915	285	8	354
Columns and pilasters, Construction of	P. J. Hardy	163,994	June 1, 1875	130	45	7	948

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Columns, Construction of marble.....	P. J. Hardy	163,995	June 1, 1875	130	46	7	948
Comb :							
See Band-comb. Doffer-comb.							
Curry-comb.							
Comb	E. Brown	161,661	Apr. 6, 1875	65	23	7	578
Comb	M. Dittenhoefer	158,922	Jan. 19, 1875	551	183	7	115
Comb-cutting machine	J. W. and I. S. Hyatt	164,648	June 22, 1875	774	254	7	1063
Combination-lock	W. Baldwin	161,375	Mar. 30, 1875	1077	349	7	527
Combination-lock	F. J. Chapman	168,873	Oct. 19, 1875	536	176	8	656
Combination-lock	W. Gilfillan	162,164	Apr. 20, 1875	533	175	7	660
Combination-lock	S. Hipp, T. Wehagen, and C. Nickel	162,551	Apr. 27, 1875	913	293	7	715
Combination-lock	H. C. Hovey	167,764	Sept. 14, 1875	357	113	8	464
Combination-lock	C. D. Judd	168,094	Sept. 28, 1875	689	218	8	527
Combination-lock	A. E. Peters	167,929	Sept. 21, 1875	511	163	8	495
Combination-lock	G. Riesbeck	164,214	June 8, 1875	351	120	7	989
Combination-lock	C. O. Yale	161,727	Apr. 6, 1875	118	42	7	586
Commode or stand	F. Mahler	165,743	July 20, 1875	600	184	8	116
Commode, Portable	I. S. Williams	162,131	Apr. 13, 1875	485	160	7	646
Commode-ventilator	E. W. Stanton and T. M. Riley	167,032	Aug. 24, 1875	831	259	8	342
Commodes or close stools, Ventilation of	R. D. O. Smith	169,490	Nov. 2, 1875	150	49	8	755
Compass, Mariner's	D. Baker	163,836	June 1, 1875	1	1	7	931
Compass, Mariner's	D. Baker	163,837	June 1, 1875	2	1	7	931
Compass, Mariner's	D. Baker	163,838	June 1, 1875	3	1	7	931
Compass, Mariner's	D. Baker	163,839	June 1, 1875	4	2	7	931
Compass, Mariner's	D. Baker	163,840	June 1, 1875	5	.....	7	931
Compass, Mariner's	N. H. Dibble	168,726	Oct. 11, 1875	392	129	8	628
Compass, Mariner's	G. Iles	167,452	Sept. 7, 1875	63	20	8	415
Compass, Mariner's	E. S. Ritchie	166,812	Aug. 17, 1875	610	189	8	303
Compound engine	S. Archbold	158,666	Jan. 12, 1875	296	100	7	65
Compound engine	J. W. Bell	159,786	Feb. 16, 1875	531	177	7	271
Compound engine	C. E. Emery	160,817	Mar. 16, 1875	540	175	7	440
Compound engines, Steam-cylinder head for	J. F. Holloway	158,378	Jan. 5, 1875	23	8	7	12
Compound fabric	G. V. Shepard	158,746	Jan. 12, 1875	361	123	7	75
Compound steam-engine	A. Alexander	163,348	May 18, 1875	606	193	7	850
Compound steam-engine	F. E. Sickels	161,711	Apr. 6, 1875	101	36, 37	7	584
Compress	A. A. Lelievre	160,830	Mar. 16, 1875	551	.....	7	442
Concrete articles, Mold for	R. B. Lanum	169,179	Oct. 26, 1875	840	274	8	707
Concrete pipe, drain-tile, &c., Machine for molding	T. E. Daniels	166,264	Aug. 3, 1875	71	22, 23	8	209
Concrete, Straw	F. B. Howard	161,038	Mar. 23, 1875	738	.....	7	476
Condenser	H. W. Bulkley	167,642	Sept. 14, 1875	246	76	8	447
Condenser	J. B. Root	171,175	Dec. 14, 1875	493	163	8	1023
Condenser and heater	L. L. Newman and A. Van Orsdale	166,132	July 27, 1875	993	306	8	182
Condenser for illuminating-gas	G. W. Edge	171,363	Dec. 21, 1875	692	228	8	1058
Condenser for stills and drying-chambers	M. Harris	170,730	Dec. 7, 1875	70	22	8	960
Condenser, Gas	P. Munsinger	158,433	Jan. 5, 1875	69	24	7	19
Condenser, Ice-machine	A. Jas	161,237	Mar. 23, 1875	924	302	7	500
Condenser, Ice-machine	A. Jas	168,501	Oct. 5, 1875	162	53	8	588
Condenser, Steam	E. O. Brinckerhoff	158,397	Jan. 5, 1875	40	15	7	14
Condenser, Surface	C. Godfrey	162,470	Apr. 27, 1875	844	271	7	707
Condenser, Surface	W. H. Guild	163,482	May 18, 1875	725	231	7	865
Condensing apparatus for marine steam-engines, Compound	J. Houpt	168,901	Oct. 19, 1875	561	{ 183 } { 184 }	8	660
Condensing-engine	J. F. Barker	165,148	July 6, 1875	2	1	8	9
Condensing vapors, gases, &c., Apparatus for	R. Speir and J. Mather	168,060	Sept. 21, 1875	640	204	8	513
Conductor's alarm and registering hand-stamp	L. J. Masterson	159,765	Feb. 16, 1875	510	171	7	268
Confectionery	E. Hawker	166,365	Aug. 3, 1875	161	.....	8	222
Confectionery	E. Hawker	168,488	Oct. 5, 1875	151	.....	8	586
Confectionery, Cream-dropping machine for	G. Smith, sr	166,644	Aug. 10, 1875	438	135	8	269
Confectionery, Machine for casting	S. F. Whitman	169,935	Nov. 16, 1875	628	193	8	830
Confectionery, pills, &c., Apparatus for sugar-coating	W. Cairns	159,899	Feb. 16, 1875	637	211	7	254
Congealer or condenser	W. H. H. Mallory	167,182	Aug. 31, 1875	998	310	8	372
Convertible chair	C. N. Cadwallader	169,772	Nov. 9, 1875	457	144	8	802
Convertible chair	H. H. Ham	164,370	June 15, 1875	517	170	7	1020
Convertible chair	F. H. Waste	169,752	Nov. 9, 1875	435	138	8	799
Convertible table	F. A. Gilbert	161,502	Mar. 30, 1875	1201	385	7	543
Cooker, Steam	G. H. Scribner	170,404	Nov. 23, 1875	1069	336	8	999
Cooking and washing apparatus, Steam	W. Cooper	162,033	Apr. 13, 1875	392	132	7	635
Cooking apparatus	E. H. Murray	171,411	Dec. 21, 1875	738	242	8	1063
Cooking apparatus	H. M. Smith	170,199	Nov. 23, 1875	885	276	8	873
Cooking apparatus, Pocket	G. B. Sickels	162,959	May 4, 1875	210	67, 68	7	774
Cooking apparatus, Steam	G. H. Ferris	167,830	Sept. 21, 1875	429	136	8	482
Cooking pan, Steak	D. B. Smith	162,961	May 4, 1875	212	68	7	775
Cooking-utensil	W. Lacey	171,231	Dec. 21, 1875	574	189	8	1042
Cooking-utensil	A. Viehmeyer	170,921	Dec. 7, 1875	234	80	8	982
Cooking vessel, Steam	E. P. Bates	161,092	Mar. 23, 1875	792	260	7	483
Cooking-vessels, Portable stirrer for	F. M. Roush	160,033	Feb. 23, 1875	779	257	7	311
Cooler :							
See Beer-cooler. Milk-cooler.							
Lard-cooler. Water-cooler.							
Liquid-cooler.							
Cooler and condenser or heater	C. H. North	164,757	June 22, 1875	872	284	7	1076
Cooling and circulating air in buildings, Apparatus for	A. Jas	162,660	Apr. 27, 1875	1007	323	7	727
Cooling apparatus, Room	W. Braennlich	164,421	June 15, 1875	567	184	7	1026
Coop, Folding	D. M. Sullivan	171,446	Dec. 21, 1875	767	252	8	1068
Coop, Poultry	F. M. Blanc	163,971	June 1, 1875	109	37	7	946
Coop, Poultry	J. Shepard	168,111	Sept. 28, 1875	704	222	8	529
Copper, &c., Refining	S. L. Crocker	159,801	Feb. 10, 1875	547	.....	7	272
Copper-tinning machine, Sheet	W. Jenkins	160,328	Mar. 2, 1875	65	23	7	358
Copy-book, Letter-press	S. W. Soesbe	169,491	Nov. 2, 1875	152	50	8	756
Copy-holder	L. Conant	169,893	Nov. 16, 1875	566	182	8	826
Copying-press	W. H. Hoffman and B. S. Hoyt	168,494	Oct. 5, 1875	156	51	8	587
Copying-press damping-box	W. J. Purcell	161,898	Apr. 13, 1875	284	95	7	621

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Copying-press pad.....	C. and J. G. Roland.....	163, 029	May 11, 1875	293	95	7	793
Copying-presses, Water-proof pad for.....	C. and J. G. Rowland.....	158, 651	Jan. 12, 1875	282	94	7	63
Cord and cordage, Rubber-coated.....	H. Schlarbaum.....	166, 306	Aug. 3, 1875	112	34	8	215
Cord-binder.....	W. B. Snyder.....	170, 123	Nov. 16, 1875	790	250	8	853
Cordage.....	T. H. Dunham.....	164, 154	June 8, 1875	298	.....	7	982
Cordage-machine.....	J. A. Peckham.....	171, 041	Dec. 14, 1875	361	120	8	1006
Cordage, rope, &c., finishing machine.....	T. Tebow.....	163, 280	May 11, 1875	523	{ 169 } 170	7	822
Core-anchoring clamp.....	L. E. Roberts.....	160, 062	Feb. 23, 1875	806	265	7	314
Core-barrel.....	C. Dockray.....	167, 075	Aug. 24, 1875	872	272	8	348
Core for castings, Sand.....	F. Lemkenheimer and A. Riegler.....	164, 313	June 8, 1875	449	148	7	1062
Core-forming machine.....	W. C. Amish.....	159, 375	Feb. 2, 1875	119	42	7	201
Core to be used in the manufacture of tubing, Sectional.....	H. Lemon and J. A. Cameron.....	168, 755	Oct. 11, 1875	421	138	8	632
Core, Tubing.....	W. F. Brooks.....	163, 148	May 11, 1875	398	{ 128 } 129	7	807
Cork.....	W. King.....	166, 467	Aug. 16, 1875	288	.....	8	247
Cork branding and counting apparatus.....	N. W. Mitchell.....	158, 963	Jan. 19, 1875	590	196	7	120
Cork-cutting machine.....	G. S. Long.....	163, 387	May 18, 1875	640	205	7	854
Cork for stoppers, Preparing.....	C. G. Frash.....	167, 521	Sept. 7, 1875	125	.....	8	424
Cork-stopper.....	J. I. Flanagan.....	171, 606	Dec. 23, 1875	934	306	8	1099
Cork-tapering machine.....	Z. M. Lane.....	162, 241	Apr. 20, 1875	605	198	7	669
Corks, Device for removing wire fastenings from.....	G. A. Potter.....	160, 950	Mar. 16, 1875	652	213	7	455
Corks from bottles, Instrument for extracting.....	W. C. D. Page and J. L. Fahy.....	164, 931	June 29, 1875	1058	341	7	1107
Cork-screw, Wire.....	W. R. Clough.....	161, 755	Apr. 6, 1875	142	49	7	589
Corn-cutter.....	P. M. McLeod.....	170, 010	Nov. 16, 1875	684	214	8	839
Corn cutter, Green.....	V. Barker.....	159, 741	Feb. 16, 1875	489	164	7	265
Corn cutter, Green.....	W. J. Potter.....	160, 119	Feb. 23, 1875	851	281	7	321
Corn cutter, Green.....	T. Witmer.....	165, 968	July 27, 1875	835	257	8	159
Corn-drill.....	J. Campbell.....	165, 788	July 20, 1875	645	198	8	122
Corn-drill.....	J. B. Ludlow.....	160, 923	Mar. 16, 1875	628	205	7	452
Corn-drill.....	J. R., S. B., and G. W. Rude.....	170, 902	Dec. 7, 1875	216	75	8	980
Corn-drill, Pilot-wheel.....	J. Campbell.....	165, 155	July 6, 1875	8	3	8	10
Corn-dropper.....	J. Jackman.....	161, 685	Apr. 6, 1875	83	29	7	581
Corn-dropper.....	I. G. Vail.....	161, 363	Mar. 30, 1875	1561	345	7	526
Corn-dropper, Check-row.....	J. W. Fawkes.....	167, 514	Sept. 7, 1875	119	37	8	423
Corn-husker.....	W. A. Dick.....	168, 624	Oct. 11, 1875	308	100	8	616
Corn-husking implement.....	H. W. Hill.....	171, 019	Dec. 14, 1875	344	115	8	1003
Corn, Implement for holding hot.....	R. G. J. Kennard.....	164, 307	June 8, 1875	444	147	7	1001
Corn-popper.....	F. J. Meyers.....	171, 032	Dec. 14, 1875	354	118	8	1005
Corn-popper.....	C. F. Wickwire.....	170, 976	Dec. 14, 1875	309	103	8	999
Corn-sheller.....	W. S. Broyles.....	159, 789	Feb. 16, 1875	534	178	7	271
Corn-sheller.....	J. Burke.....	158, 357	Jan. 5, 1875	7	2	7	9
Corn-sheller.....	H. C. Creekmore and J. W. Mc-Millin.....	166, 751	Aug. 17, 1875	556	171	8	295
Corn-sheller.....	J. S. Fisher.....	167, 326	Aug. 31, 1875	1120	352	8	390
Corn-sheller.....	W. H. Hall and C. S. Yingst.....	166, 771	Aug. 17, 1875	574	176	8	297
Corn-sheller.....	L. B. Hoit.....	158, 711	Jan. 12, 1875	334	114	7	71
Corn-sheller.....	T. J. Hoover.....	160, 193	Feb. 23, 1875	912	300	7	330
Corn-sheller.....	F. H. Hunter.....	163, 377	May 18, 1875	630	202	7	853
Corn-sheller.....	S. H. Moore.....	160, 342	Mar. 2, 1875	77	27	7	359
Corn-sheller.....	E. C. Morgan.....	165, 750	July 20, 1875	606	186	8	117
Corn-sheller.....	C. D. and E. D. Read.....	166, 142	July 27, 1875	1003	309	8	183
Corn-sheller.....	W. Stover.....	162, 429	Apr. 20, 1875	783	254	7	690
Corn-sheller.....	S. Williams.....	166, 832	Aug. 17, 1875	626	194	8	305
Corn-sheller.....	J. N. Wolfe.....	158, 816	Jan. 19, 1875	449	149	7	102
Corn-shellers, Feeding-belt and partition for.....	W. B. Quarton.....	170, 897	Dec. 7, 1875	212	74	8	979
Corn-shelling implement.....	J. M. Wilson.....	167, 597	Sept. 7, 1875	194	61	8	433
Corn-shield.....	M. Kelly.....	170, 478	Nov. 30, 1875	1152	363	8	919
Corn-stalk cutter.....	S. Bean.....	169, 134	Oct. 26, 1875	803	261	8	701
Corn-stalk cutter.....	J. N. Hill.....	166, 006	July 27, 1875	872	268	8	164
Corn-stalk cutter.....	C. B. Sights.....	161, 830	Apr. 6, 1875	211	71	7	599
Corn-stalk cutter.....	A. C. Smith.....	165, 128	June 29, 1875	1224	394	7	1129
Corn-stalk-cutting machine.....	T. O'Bryan.....	165, 496	July 13, 1875	364	{ 107 } 108	8	66
Corn-stalk knife.....	P. C. Moore.....	171, 303	Dec. 21, 1875	640	210	8	1050
Corn-uncoverer.....	H. H. Gilchrist.....	170, 726	Dec. 7, 1875	66	21	8	957
Cornice-tool.....	W. P. Walter.....	166, 666	Aug. 10, 1875	457	140	8	272
Cornice, Window.....	T. H. Dibble.....	161, 869	Apr. 13, 1875	259	86	7	617
Cornice, Window-curtain.....	J. Sowle.....	159, 774	Feb. 16, 1875	521	173	7	269
Cornices, Manufacture of.....	S. O. Brock.....	159, 494	Feb. 9, 1875	252	82	7	227
Corpse-cooler.....	C. Hoff.....	160, 910	Mar. 16, 1875	614	200	7	450
Corpse-cooler.....	C. O. Peck.....	160, 948	Mar. 16, 1875	651	212	7	455
Corpse head-rest.....	C. D. Blachford.....	170, 224	Nov. 23, 1875	908	283	8	876
Corpse-lifter.....	J. J. Flannery.....	168, 471	Oct. 5, 1875	134	45	8	584
Corpse-preserving casket.....	B. Hartwell.....	160, 186	Feb. 23, 1875	906	298	7	329
Corpses and other organic matter from decomposition, Apparatus for preserving.....	J. Whelan.....	171, 332	Dec. 21, 1875	662	{ 218 } 219	8	1053
Corrugating sheet-metal, Machine for.....	W. B. and O. P. Scaife.....	164, 399	June 15, 1875	544	178	7	1023
Corrugating sheet-metal, Machine for.....	W. B. and O. P. Scaife.....	167, 412	Sept. 7, 1875	30	9	8	410
Corset.....	J. N. Ames.....	163, 433	May 18, 1875	677	216	7	859
Corset.....	J. W. Askie.....	169, 131	Oct. 26, 1875	801	260	8	700
Corset.....	M. K. Bortree.....	165, 534	July 13, 1875	398	119	8	71
Corset.....	S. E. Burns.....	159, 539	Feb. 9, 1875	300	97	7	233
Corset.....	H. G. Emery.....	163, 983	June 1, 1875	119	40	7	947
Corset.....	D. H. Fanning.....	159, 753	Feb. 16, 1875	502	167	7	267
Corset.....	S. B. Ferris.....	169, 159	Oct. 26, 1875	825	268	8	704
Corset.....	D. H. Horne.....	167, 898	Sept. 21, 1875	490	155	8	491
Corset.....	C. L. Olmstead.....	163, 685	May 25, 1875	920	293	7	898
Corset.....	H. A. Schandvyl.....	162, 580	Apr. 27, 1875	937	301	7	718
Corset.....	I. Ulman.....	161, 841	Apr. 6, 1875	223	75	7	601
Corset.....	I. D. Warner.....	168, 304	Sept. 28, 1875	878	281	8	554
Corset.....	J. Waterman.....	164, 249	June 8, 1875	376	128	7	933
Corset, Abdominal.....	H. G. Emery.....	161, 018	Mar. 23, 1875	718	237	7	474
Corset, Abdominal.....	C. A. Griswold.....	171, 012	Dec. 14, 1875	340	113	8	1003
Corset-box.....	M. K. Bortree.....	161, 741	Apr. 6, 1875	132	45	7	588

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Corset-clasp	W. C. Goodwin	163, 479	May 18, 1875	724	230	7	865
Corset-fastening	F. E. Vandercook	167, 958	Sept. 21, 1875	534	171	8	498
Corset-steel	G. W. McGill	159, 595	Feb. 9, 1875	340	113	7	239
Corsets, Manufacture of	C. Gabren	162, 050	Apr. 13, 1875	410	137	7	637
Corsets, Manufacturing	H. G. Emery	161, 019	Mar. 23, 1875	720	237	7	474
Cot, Folding	O. E. Lord	165, 939	July 27, 1875	809	248	8	156
Cotton and hay press	W. H. Burgess	167, 741	Sept. 14, 1875	329	105	8	460
Cotton and hay press	W. H. Tappey, A. Steel, and C. J. Beasley.	164, 608	June 15, 1875	725	236	7	1048
Cotton and hay press	B. J. Wilson	161, 847	Apr. 6, 1875	228	76	7	601
Cotton-auger	A. O. Schultz	158, 985	Jan. 19, 1875	612	203	7	123
Cotton-bales, Applying sample patches to	S. Sullivan	166, 158	July 27, 1875	1017	313	8	185
Cotton-chopper	T. C. Burnham	160, 811	Mar. 16, 1875	536	174	7	439
Cotton-chopper	W. D. Evans	166, 597	Aug. 10, 1875	397	122	8	263
Cotton-chopper	T. G. W. McMeekin and W. W. Hunt.	169, 185	Oct. 26, 1875	845	275	8	707
Cotton-chopper	J. G. Micklé and F. F. Dearing ..	160, 937	Mar. 16, 1875	640	209	7	454
Cotton-chopper	J. D. Mitchell	159, 436	Feb. 2, 1875	176	60	7	209
Cotton chopper and scraper combined	R. McRae	161, 256	Mar. 23, 1875	947	309	7	503
Cotton-cleaner	G. W. McCauley and W. L. Crowson.	162, 086	Apr. 13, 1875	440	146	7	641
Cotton-cleaner	A. C. Pearce	168, 282	Sept. 28, 1875	860	274	8	551
Cotton-cleaner	J. Wright	166, 054	July 27, 1875	914	282	8	170
Cotton-cleaning machine	S. D. Keene	162, 479	Apr. 27, 1875	852	274	7	707
Cotton-compressor	J. J. Cahoon	164, 903	June 29, 1875	1030	332	7	1103
Cotton for spinning, Preparing	R. Handy	166, 001	July 27, 1875	867	.....	8	163
Cotton-gin	E. Burkin, jr., and H. A. Stearns	160, 302	Mar. 2, 1875	38	15	7	354
Cotton-gin	O. C. Dewey	163, 465	May 18, 1875	705	225	7	863
Cotton-gin	W. Koehl	164, 844	June 22, 1875	954	309	7	1086
Cotton-gin	O. W. Massey	164, 316	June 8, 1875	452	149	7	1002
Cotton-gin	O. W. Massey	167, 679	Sept. 14, 1875	277	87	8	452
Cotton-gin	W. S. Reeder	169, 584	Nov. 2, 1875	245	80	8	767
Cotton-gin condenser	E. Van Winkle	159, 532	Feb. 9, 1875	294	95	7	232
Cotton-gin feeder	F. W. Flynn	162, 371	Apr. 20, 1875	727	237	7	683
Cotton-gin power	L. B. Stith	170, 782	Dec. 7, 1875	117	37	8	966
Cotton-gin rib	E. R. Trammell	162, 125	Apr. 13, 1875	481	158	7	645
Cotton-ginning, &c., machine, Portable	J. L. Toole	169, 206	Oct. 26, 1875	859	280	8	710
Cotton-opener	J. E. Crane	168, 324	Oct. 5, 1875	9	3	8	566
Cotton opener and lapper	W. E. Whitehead and A. T. Atherton.	160, 558	Mar. 9, 1875	284	96	7	398
Cotton-openers, Beater for	J. E. Crane	161, 868	Apr. 13, 1875	258	86	7	617
Cotton-openers, Beater for	J. E. Crane	165, 066	June 29, 1875	1170	{ 376 } { 377 }	7	1122
Cotton-openers, Beater for	R. Kitson	170, 675	Dec. 7, 1875	19	6	8	953
Cotton-openers, &c., Beater for	W. E. Whitehead and A. T. Atherton.	159, 487	Feb. 2, 1875	232	75	7	216
Cotton-picker beater	G. E. Taft	164, 948	June 29, 1875	1071	345	7	1108
Cotton-press	L. S. Bearce	169, 763	Nov. 9, 1875	451	142	8	801
Cotton-press	R. M. and J. M. Brooks and J. S. Lavender.	159, 637	Feb. 9, 1875	371	123	7	244
Cotton, &c., press	H. K. Burnett	171, 349	Dec. 21, 1875	680	224	8	1056
Cotton-press	W. T. Crenshaw and R. J. Carothers.	158, 403	Jan. 5, 1875	45	16	7	15
Cotton-press	S. Dike	164, 980	June 29, 1875	1097	354	7	1112
Cotton-press	W. L. Frost	170, 075	Nov. 16, 1875	748	236	8	847
Cotton-press	T. J. M. Jewell	158, 417	Jan. 5, 1875	57	20	7	17
Cotton-press	T. J. M. Jewell	158, 845	Jan. 19, 1875	474	159	7	106
Cotton-press	W. W. Knowles	161, 795	Apr. 6, 1875	175	60	7	594
Cotton-press	W. W. Louis	161, 802	Apr. 6, 1875	180	61, 62	7	595
Cotton-press	R. Mackey and M. Green	166, 119	July 27, 1875	978	302	8	180
Cotton-press	D. S. McBryde	169, 183	Oct. 26, 1875	843	275	8	707
Cotton-press	T. G. W. McMeekin and W. W. Hunt.	169, 184	Oct. 26, 1875	844	275	8	707
Cotton-press	B. F. Platt	168, 668	Oct. 11, 1875	346	113	8	621
Cotton-press	T. D. Powers	163, 805	May 25, 1875	1025	324	7	912
Cotton-press	E. Van Winkle	163, 900	June 1, 1875	53	18	7	938
Cotton-press	W. W. Wallace	170, 610	Nov. 30, 1875	1278	403	8	935
Cotton-press, Combination	J. F. Taylor	167, 363	Aug. 31, 1875	1152	362	8	394
Cotton-press steam-cylinder	J. F. Taylor	166, 653	Aug. 10, 1875	444	137	8	270
Cotton-scraper	G. W. Beard	158, 457	Jan. 5, 1875	93	32	7	22
Cotton scraper and chopper	W. H. McClaugherty	160, 111	Feb. 23, 1875	843	278	7	320
Cotton scraper, chopper, and cultivator	R. L. McClung	169, 462	Nov. 2, 1875	128	40	8	752
Cotton-seed cleaner	M. C. Cheek	166, 258	Aug. 3, 1875	67	21	8	208
Cotton-seed huller	F. Streuby	163, 702	May 25, 1875	934	297	7	900
Cotton-seed hullers, Apparatus for separating tufted fiber from	A. Rock	159, 455	Feb. 2, 1875	193	65	7	212
Cotton-sprinkler	C. A. Ramsey	163, 526	May 18, 1875	771	244	7	871
Cotton-stalk puller	H. Lee	167, 105	Aug. 24, 1875	904	282	8	352
Cotton-sweep	M. Call	167, 494	Sept. 7, 1875	98	31	8	420
Cotton-worms, Machine for distributing compounds for destroying	W. T. Willie	160, 986	Mar. 16, 1875	684	224	7	460
Counter and heel stiffener blanks, Machine for dividing	S. Moore	163, 231	May 11, 1875	476	154	7	816
Counter-press	L. Frechette	161, 774	Apr. 6, 1875	157	55	7	592
Countersink	T. P. Farmer	167, 884	Sept. 21, 1875	478	151	8	489
Countersink	R. J. Welles	170, 653	Nov. 30, 1875	1315	415	8	940
Coupling:							
See Belt-coupling.	Telegraph-coupling.						
Brake-pipe coupling.	Telegraph-wire coupling.						
Car-coupling.	Thill-coupling.						
Car-pole coupling.	Thrashing-machine coupling.						
Hose-coupling.	Trace-coupling.						
Hose and pipe coupling.	Tumbling-shaft coupling.						
Pipe-coupling.	Wagon-coupling.						
Pipe or hose coupling.	Whiffletree-coupling.						
Roll-coupling.	Yoke-coupling.						
Socket-coupling.							
Stove-pipe coupling.							

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Coupling.....	G. W. Rowell.....	170, 019	Nov. 16, 1875	691	217	8	840
Coupon tag and check.....	G. R. G. Jones.....	163, 496	May 18, 1875	741	235	7	867
Covering, Non-conducting.....	C. L. Riker.....	159, 452	Feb. 2, 1875	191	64	7	211
Coverlet-fabric.....	H. Schadeewald.....	166, 896	Aug. 17, 1875	691	214	8	314
Cow-milker.....	W. H. Pearson.....	170, 187	Nov. 23, 1875	874	273	8	872
Cow-tail holder.....	G. Stickney.....	170, 127	Nov. 16, 1875	793	251	8	854
Cow-tail holder.....	J. M. Worden.....	159, 490	Feb. 2, 1875	235	77	7	217
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Cracker cutting and sugaring mechanism.....	J. W. Ruger and G. J. Hill.....	163, 332	May 18, 1875	591	189	7	848
Cracker-glazing device.....	D. Foerster.....	165, 813	July 20, 1875	672	206	8	125
Cracker-machine.....	G. W. Baker.....	165, 527	July 13, 1875	391	117	8	70
Cracker-machine.....	A. and J. Exton.....	164, 157	June 8, 1875	301	103	7	983
Cracker-machine.....	A. and J. Exton.....	164, 282	June 8, 1875	419	140	7	998
Cracker-machine.....	A. and J. Exton.....	164, 283	June 8, 1875	420	140	7	998
Cracker-machine.....	C. S. Fowler.....	170, 250	Nov. 23, 1875	931	290	8	879
Cracker-machine.....	J. Parr.....	169, 834	Nov. 9, 1875	517	162	8	809
Cracker-machine.....	J. W. Ruger.....	168, 531	Oct. 5, 1875	192	63	8	591
Cracker-machine.....	J. W. and A. Ruger.....	165, 875	July 20, 1875	732	224	8	133
Cracker show-case.....	C. and W. Kroeger.....	168, 905	Oct. 19, 1875	572	188	8	661
Cradle.....	M. V. Borgman and W. F. Lamson.....	169, 767	Nov. 9, 1875	454	143	8	802
Cradle.....	E. F. Gazzam.....	169, 253	Oct. 26, 1875	907	295	8	715
Cradle.....	J. B. Nelbach.....	168, 173	Sept. 28, 1875	765	242	8	538
Cradle.....	J. Sprengard.....	169, 123	Oct. 26, 1875	795	257	8	699
Cradle.....	W. V. and N. W. Van Dervort.....	170, 418	Nov. 23, 1875	1080	340	8	900
Cradle.....	F. Voit.....	168, 945	Oct. 19, 1875	602	199	8	666
Cradle.....	F. C. Wireman.....	163, 288	May 11, 1875	532	172	7	824
Cradle and bedstead, Combined.....	C. W. Chamberlain.....	164, 639	June 22, 1875	766	251 252	7	1062
Cradle, Automatic.....	W. Kindermann.....	161, 417	Mar. 30, 1875	1116	361	7	532
Cradle fingers, Manufacture of grain.....	C. P. Kelsey.....	171, 025	Dec. 14, 1875	349	116	8	1004
Cradle, Folding.....	E. D. Reichard and J. R. Fisher.....	161, 277	Mar. 23, 1875	967	315	7	505
Cradle, Folding.....	J. Weich and J. Jefferys.....	168, 691	Oct. 11, 1875	362	119	8	624
Cradle-rocking device.....	L. L. King.....	168, 028	Sept. 21, 1875	599	191	8	508
Cradle-treadle.....	J. A. Kirchner.....	171, 388	Dec. 21, 1875	719	236	8	1061
Cranberry-separator.....	D. T. Staniford.....	159, 853	Feb. 16, 1875	592	196	7	278
Crane.....	J. M. Caswell and A. R. Worth.....	168, 372	Oct. 5, 1875	49	17	8	571
Crane.....	J. Dorman.....	160, 513	Mar. 9, 1875	245	84	7	392
Crane.....	I. Hahn.....	166, 985	Aug. 24, 1875	787	243	8	336
Crane.....	F. A. Pratt.....	168, 412	Oct. 5, 1875	84	29	8	577
Crane.....	R. B. Robinson.....	170, 301	Nov. 23, 1875	975	305	8	886
Crane, Water-pressure.....	C. H. Morgan.....	163, 511	May 18, 1875	755	240	7	869
Crank and lever.....	A. R. Cribfield.....	163, 001	May 11, 1875	265	86	7	790
Crank-motion.....	C. E. Whipple.....	166, 047	July 27, 1875	908	280	8	170
Crank-stop.....	W. H. Phillips.....	170, 013	Nov. 16, 1875	687	215	8	839
Crank-wheel.....	L. Miller.....	163, 390	May 18, 1875	642	205	7	854
Cream of tarter, Machine for purifying.....	A. Reisert.....	162, 287	Sept. 28, 1875	864	276	8	551
Crib.....	H. Bittenberg and W. R. Hodges.....	163, 357	May 18, 1875	612	196	7	851
Crib, Automatic clock-operated horse.....	W. R. Gribbin and A. McMillan.....	160, 092	Feb. 23, 1875	829	272	7	318
Cribs and cradles, Screen-supporter for.....	H. B. Fairbanks.....	165, 665	July 20, 1875	535	163	8	106
Crimping-machine.....	T. J. Greenwood.....	167, 661	Sept. 14, 1875	261	81	8	450
Crimping-machine.....	A. Hecht.....	162, 472	Apr. 27, 1875	846	272	8	707
Crimping-machine.....	O. Noack.....	163, 602	May 25, 1875	854	269	7	889
Crochet-machine.....	S. L. Otis.....	164, 586	June 15, 1875	707	230	7	1045
Crop-thinning machine.....	M. Eustace.....	159, 169	Jan. 26, 1875	797	261	7	156
Crop thinning or spacing machine.....	M. Eustace and J. and T. Kennan.....	159, 658	Feb. 9, 1875	393	131	7	247
Croquet apparatus.....	J. A. Crandall.....	168, 323	Oct. 5, 1875	8	3	8	565
Croquet apparatus.....	P. West.....	161, 080	Mar. 23, 1875	775	255	7	481
Croquet-mallet.....	T. H. Logan.....	159, 193	Jan. 26, 1875	822	270	7	159
Cross-head.....	J. W. Hill.....	170, 370	Nov. 23, 1875	1031	324	8	894
Crozing and leveling tool.....	S. S. Steel and G. W. Reel.....	167, 704	Sept. 14, 1875	297	94	8	455
Crucible.....	J. Feix.....	165, 811	July 20, 1875	670	205	8	125
Crucible-mold.....	J. C. Wallace.....	162, 325	Apr. 20, 1875	679	221	7	678
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Ore-crusher. Stone-crusher.							
Cryolite, Process of decomposing.....	H. Burgess.....	167, 986	Sept. 21, 1875	554		8	501
Cryptography.....	A. L. F. Flamm.....	166, 761	Aug. 17, 1875	563	173	8	296
Cuff.....	J. W. A. Cluett.....	158, 627	Jan. 12, 1875	258	88	7	60
Cuff-holder.....	H. B. Adams.....	160, 636	Mar. 9, 1875	351	118	7	408
Culinary apparatus.....	M. C. Bogia.....	164, 255	June 8, 1875	393	133	7	995
Culinary implement.....	J. Ebbert.....	167, 081	Aug. 24, 1875	879	275	8	349
Culinary utensil.....	J. H. and N. Weare.....	164, 354	June 8, 1875	491	162	7	1007
Culinary vessel.....	J. Demoss.....	165, 483	July 13, 1875	354	104	8	64
Culinary vessel.....	C. O. Line.....	167, 106	Aug. 24, 1875	905	282	8	352
Culinary vessel.....	G. R. Moore.....	158, 598	Jan. 12, 1875	235	79	7	57
Culinary vessel, Steam.....	S. T. Goodwyn.....	159, 755	Feb. 16, 1875	503	168	7	267
Cultivator.....	J. N. Bashaw.....	161, 855	Apr. 13, 1875	241	80	7	615
Cultivator.....	J. Behel.....	170, 142	Feb. 23, 1875	869	287	7	324
Cultivator.....	J. W. Chase.....	171, 503	Dec. 28, 1875	843	276	8	1086
Cultivator.....	E. Children.....	159, 500	Feb. 9, 1875	257	83	7	228
Cultivator.....	W. O. Clark.....	162, 900	May 4, 1875	150	49	7	767
Cultivator.....	A. B. Colver.....	162, 273	Apr. 20, 1875	633	206	7	672
Cultivator.....	A. Dart.....	163, 921	June 1, 1875	69	23	7	940
Cultivator.....	J. U. Dunnavant and W. A. Hampson.....	165, 552	July 13, 1875	414	125	8	74
Cultivator.....	E. D. Gorham.....	163, 372	May 18, 1875	626	200	7	852
Cultivator.....	M. L. Gorham.....	159, 507	Feb. 9, 1875	271	88	7	229
Cultivator.....	H. D. Green.....	170, 549	Nov. 30, 1875	1218	383	8	928
Cultivator.....	J. F. Henderson.....	161, 882	Apr. 13, 1875	270	90, 91	7	619
Cultivator.....	R. S. Higgins.....	158, 709	Jan. 12, 1875	331	113	7	71
Cultivator.....	W. L. Hopper.....	164, 372	June 15, 1875	518	170	7	1020
Cultivator.....	J. C. Jenkins.....	166, 278	Aug. 3, 1875	84	26	8	211
Cultivator.....	M. Johnson.....	159, 331	Feb. 2, 1875	86	29	7	195
Cultivator.....	P. F. Landphere.....	160, 602	Mar. 9, 1875	323	109	7	404
Cultivator.....	L. L. Lawrence and G. S. Thomas.....	160, 210	Feb. 23, 1875	928	305	7	332

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Cultivator.....	T. G. Lee.....	170, 632	Nov. 30, 1875	1301	410	8	938
Cultivator.....	M. McNitt.....	167, 458	Sept. 7, 1875	69	21	8	416
Cultivator.....	J. O. Milne.....	159, 523	Feb. 9, 1875	287	93	7	231
Cultivator.....	E. B. Moore.....	170, 882	Dec. 7, 1875	198	68	8	977
Cultivator.....	E. Nauman.....	166, 290	Aug. 3, 1875	98	30	8	213
Cultivator.....	J. Pierpont.....	171, 420	Dec. 21, 1875	745	245	8	1064
Cultivator.....	T. J. Price and A. Hunt.....	170, 395	Nov. 23, 1875	1060	333	8	898
Cultivator.....	J. H. Rice.....	159, 842	Feb. 16, 1875	581	193	7	277
Cultivator.....	L. C. Roberts.....	161, 157	Mar. 23, 1875	851	278	7	490
Cultivator.....	W. H. Robertson.....	162, 577	Apr. 27, 1875	936	300	7	718
Cultivator.....	P. D. Roquemore.....	160, 353	Mar. 2, 1875	86	31	7	361
Cultivator.....	A. Schrader.....	166, 636	Aug. 10, 1875	432	133	8	265
Cultivator.....	E. Shupe.....	162, 700	Apr. 27, 1875	1055	336	7	733
Cultivator.....	J. A. Thompson.....	168, 296	Sept. 28, 1875	872	279	8	553
Cultivator.....	F. W. Tolley.....	161, 455	Mar. 30, 1875	1149	371	7	537
Cultivator.....	T. F. and W. Vandegrift.....	165, 136	June 29, 1875	1232	396	7	1130
Cultivator.....	W. Weaver.....	166, 044	July 27, 1875	905	279	8	169
Cultivator.....	G. Wilkinson.....	166, 050	July 27, 1875	911	281	8	170
Cultivator.....	H. Winfield and W. P. Flynn.....	168, 074	Sept. 21, 1875	656	202	8	515
Cultivator and chopper, Rotary.....	G. W. Fenley.....	163, 061	May 11, 1875	323	104	7	796
Cultivator and harrow, Combined.....	G. Croll.....	169, 677	Nov. 9, 1875	354	112	8	789
Cultivator and harrow, Combined.....	I. P. Pickering.....	168, 181	Sept. 28, 1875	772	245	8	538
Cultivator and harrow, Combined.....	E. M. Potter.....	163, 523	May 18, 1875	769	243	7	870
Cultivator, Corn.....	A. F. Batcheller.....	164, 960	June 29, 1875	1082	348	7	1110
Cultivator, Disk harrow.....	S. G. Randall.....	161, 060	Mar. 23, 1875	754	249	7	479
Cultivator-frame.....	W. M. Coston.....	167, 226	Aug. 31, 1875	1035	321	8	377
Cultivator-plow harrow attachment.....	F. D. Ladenberger.....	171, 391	Dec. 21, 1875	722	237	8	1061
Cultivator, Revolving.....	E. C. Winters.....	163, 346	May 18, 1875	604	193	7	849
Cultivator, Revolving.....	N. S. Wood.....	158, 663	Jan. 12, 1875	294	99	7	65
Cultivator, Rotary.....	J. H. Coon.....	164, 428	June 15, 1875	576	186	7	1027
Cultivator, Rotary spade.....	D. W. Brodnax, sr.....	170, 661	Dec. 7, 1875	7	2	8	952
Cultivator-shovel.....	T. J. Houston.....	158, 375	Jan. 5, 1875	21	7	7	11
Cultivator, Strawberry.....	J. Orlando.....	162, 761	May 4, 1875	23	8	7	750
Cultivator, Sulky.....	B. C. Cox.....	164, 148	June 8, 1875	292	100	7	982
Cultivator, Sulky.....	J. Spain.....	168, 537	Oct. 5, 1875	201	66	8	592
Cultivator-teeth.....	J. Flynn.....	166, 979	Aug. 24, 1875	783	241	8	335
Cultivator-teeth, Coupling-joint for.....	R. P. Odell, jr.....	158, 512	Jan. 5, 1875	143	48	7	29
Cultivator-teeth, Grass.....	E. Children.....	158, 906	Jan. 19, 1875	536	179	7	113
Cultivator-teeth, Self-locking.....	E. Leonard.....	160, 444	Mar. 2, 1875	167	58	7	372
Cultivator, Wheel.....	J. Harris.....	170, 627	Nov. 30, 1875	1295	408	8	937
Cultivator, Wheel.....	G. S., G. W., and E. A. Brower.....	159, 560	Feb. 9, 1875	314	102	7	285
Cultivator, Wheel.....	W. P. Dale.....	161, 102	Mar. 23, 1875	800	263	7	484
Cultivator, Wheel.....	E. E. Leach.....	159, 689	Feb. 9, 1875	423	141	7	251
Cultivator, Wheel.....	G. W. Schenck.....	166, 417	Aug. 3, 1875	220	66	8	230
Cultivator, Wheel.....	J. Stoford.....	158, 752	Jan. 12, 1875	365	125	7	75
Cup:							
See Berry-cup. Oil-cup.							
Breast-cup. Seasoning-cup.							
Draftsman's mixing-cup. Shaving-cup.							
cup. Sponge-cup.							
Drinking-cup. Toy-cup.							
Glue-cup. Umbrella-tip cup.							
Jelly-cup.							
Cupboard and sink combined.....	H. Cull.....	161, 389	Mar. 30, 1875	1090	353	7	529
Cupboard, &c., catch.....	C. G. Schneider.....	164, 941	June 29, 1875	1066	343	7	1108
Cupola-furnace.....	J. Blakeney.....	165, 980	July 27, 1875	849	261	8	161
Curb for streets, Iron.....	R. Harrington.....	164, 168	June 8, 1875	314	106	7	984
Curd-cutter.....	A. and E. H. Sedgwick.....	170, 405	Nov. 23, 1875	1069	337	8	899
Curling-iron.....	J. M. Baxter.....	160, 637	Mar. 9, 1875	351	118	7	408
Curling-iron.....	S. Feder and L. Losenstein.....	158, 479	Jan. 5, 1875	113	38	7	25
Curling-iron.....	L. Wilkinson.....	161, 313	Mar. 23, 1875	998	326	7	510
Currency-holder, Spring-clasp.....	B. W. James.....	166, 613	Aug. 10, 1875	409	126	8	265
Curry-comb.....	J. H. Barringer.....	162, 455	Apr. 27, 1875	830	267	7	705
Curry-comb.....	J. O. Berry.....	161, 654	Apr. 6, 1875	57	21	7	577
Curry-comb.....	G. Havell.....	161, 787	Apr. 6, 1875	169	58	7	593
Curry-comb.....	C. E. L. Holmes.....	170, 265	Nov. 23, 1875	944	295	8	881
Curry-comb.....	C. A. Hotchkiss.....	168, 745	Oct. 11, 1875	413	134	8	631
Curry-comb.....	C. A. Hotchkiss.....	170, 733	Dec. 7, 1875	73	23	8	960
Curry-comb.....	C. A. Hotchkiss.....	170, 734	Dec. 7, 1875	74	23	8	960
Curry-comb.....	C. A. Hotchkiss.....	170, 735	Dec. 7, 1875	75	23	8	960
Curry-comb.....	C. A. Hotchkiss.....	170, 736	Dec. 7, 1875	75	24	8	960
Curry-comb.....	C. A. Hotchkiss.....	170, 857	Dec. 7, 1875	179	61	8	974
Curry-comb.....	W. T. Kellogg.....	162, 753	May 4, 1875	16	6	7	749
Curry-comb.....	W. P. Kellogg.....	162, 754	May 4, 1875	17	6	7	749
Curry-comb.....	W. P. Kellogg and J. W. Trussell.....	171, 386	Dec. 21, 1875	712	235	8	1061
Curry-comb.....	A. F. Migeon.....	162, 299	Apr. 20, 1875	656	214	7	675
Curry-comb.....	M. L. Simonson.....	170, 455	Nov. 30, 1875	1129	356	8	916
Curry-comb.....	T. Steers, jr.....	162, 868	May 4, 1875	121	39	7	763
Curry-comb.....	R. P. Van Horn.....	166, 234	Aug. 3, 1875	45	14	8	205
Curry-comb.....	R. F. Walsh.....	168, 815	Oct. 11, 1875	474	155	8	639
Curtain-cord fastener.....	L. Knudson.....	166, 115	July 27, 1875	975	300	8	179
Curtain-cord holder.....	F. E. Wagner.....	164, 238	June 8, 1875	376	128	7	993
Curtain-fastener.....	T. E. King.....	170, 674	Dec. 7, 1875	19	6	8	953
Curtain-fastening.....	J. B. Weller and F. G. Hopkins.....	158, 658	Jan. 12, 1875	291	97	7	64
Curtain-fixture.....	F. Backofen.....	169, 400	Nov. 2, 1875	75	23	8	45
Curtain-fixture.....	J. S. Brown.....	165, 299	July 6, 1875	140	43	8	28
Curtain-fixture.....	C. Buckley and L. L. Sawyer.....	161, 477	Mar. 30, 1875	1170	376	7	539
Curtain-fixture.....	H. E. Busch.....	160, 872	Mar. 16, 1875	583	190	7	446
Curtain-fixture.....	H. M. Converse.....	164, 524	June 15, 1875	655	212	7	1038
Curtain-fixture.....	G. W. Corey.....	168, 456	Oct. 5, 1875	120	42	8	582
Curtain-fixture.....	H. L. De Zeng.....	169, 090	Oct. 26, 1875	765	248	8	695
Curtain-fixture.....	O. Ellsworth.....	161, 496	Mar. 30, 1875	1196	384	7	543
Curtain-fixture.....	L. H. Gano.....	167, 758	Sept. 14, 1875	350	111	8	463

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Curtain-fixture.....	W. Gates.....	149,801	Nov. 9, 1875	487	153	8	806
Curtain-fixture.....	H. L. Hall.....	161,407	Mar. 30, 1875	1107	358	7	531
Curtain-fixture.....	E. M. Judd.....	162,564	Apr. 27, 1875	924	297	7	717
Curtain-fixture.....	E. M. Judd.....	171,385	Dec. 21, 1875	712	235	8	1061
Curtain-fixture.....	A. H. Knapp.....	161,243	Mar. 23, 1875	931	303	7	501
Curtain-fixture.....	E. B. Lake.....	159,424	Feb. 2, 1875	165	56	7	207
Curtain-fixture.....	E. B. Lake.....	162,666	Apr. 27, 1875	1016	325	7	728
Curtain-fixture.....	E. B. Lake.....	169,450	Nov. 2, 1875	115	37	8	751
Curtain-fixture.....	E. B. Lake.....	170,277	Nov. 23, 1875	953	298	8	883
Curtain-fixture.....	W. H. Maine.....	170,006	Nov. 16, 1875	680	213	8	839
Curtain-fixture.....	G. C. Mathers.....	159,944	Feb. 16, 1875	676	224	7	290
Curtain-fixture.....	G. C. Mathers.....	169,822	Nov. 9, 1875	507	159	8	808
Curtain-fixture.....	H. McGahey and J. King.....	162,488	Apr. 27, 1875	861	276	7	709
Curtain-fixture.....	C. H. Miller.....	171,034	Dec. 14, 1875	356	119	8	1005
Curtain-fixture.....	G. W. Peirce.....	170,298	Nov. 23, 1875	972	304	8	885
Curtain-fixture.....	S. H. Phinney.....	160,278	Mar. 2, 1875	20	8	7	352
Curtain-fixture.....	R. J. Pospisil.....	168,921	Oct. 19, 1875	586	193	8	663
Curtain-fixture.....	C. P. Rose.....	160,718	Mar. 9, 1875	425	141	7	418
Curtain-fixture.....	H. Seehausen.....	166,561	Aug. 10, 1875	365	112	8	259
Curtain-fixture.....	W. H. Sparks.....	164,882	June 22, 1875	993	320	7	1091
Curtain-fixture.....	W. H. Sparks.....	169,309	Oct. 26, 1875	962	312	8	723
Curtain-fixture bracket.....	J. Chase.....	164,073	June 8, 1875	229	80	7	973
Curtain-roller.....	R. J. Fisher and J. Lichtenberger.....	169,979	Nov. 16, 1875	657	206	8	835
Curtain-roller.....	P. W. Phillips.....	165,861	July 20, 1875	723	220	8	132
Curtain-roller and bracket.....	G. W. Beers.....	167,056	Aug. 24, 1875	854	266	8	345
Curtain-roller and bracket.....	O. Ellsworth.....	170,072	Nov. 16, 1875	745	236	8	847
Curtain-roller and bracket.....	W. H. Taylor and T. Donahue.....	170,205	Nov. 23, 1875	890	278	8	874
Curtain-roller and bracket.....	H. L. Judd.....	170,740	Dec. 7, 1875	78	25	8	961
Curtain-roller, Extension.....	O. P. Furnan.....	164,440	June 15, 1875	584	190	7	1029
Curtain-rollers, Device for operating.....	F. H. Bettys.....	164,361	June 15, 1875	509	167	7	1019
Cushion:							
See Billiard-cushion. Billiard-table cushion.							
Cushion-cleaning machine.....	J. R. Barry.....	166,841	Aug. 17, 1875	633	197	8	307
Cuspadore.....	G. Booth.....	167,725	Sept. 14, 1875	325	103	8	459
Cuspadore.....	J. B. Connolly.....	170,819	Dec. 7, 1875	149	49	8	970
Cuspadore.....	C. M. Moore.....	170,883	Dec. 7, 1875	199	69	8	977
Cuspadore, &c., Machine for ornamenting.....	C. M. Lyon.....	169,278	Oct. 26, 1875	930	302	8	718
Cut-off, Automatic cistern.....	H. L. Wells.....	168,361	Oct. 5, 1875	39	14	8	570
Cut-off, Automatic rain-water.....	T. C. Fawcett.....	162,366	Apr. 20, 1875	720	235	7	683
Cut-off, Cistern.....	T. B. Harrison.....	167,526	Sept. 7, 1875	131	39	8	424
Cut-off for shot-boxes.....	H. C. Wey.....	162,326	Apr. 20, 1875	680	222	7	678
Cut-off, Rain-water.....	M. Gmeiner.....	162,053	Apr. 13, 1875	413	138	7	637
Cut-off, Rain-water.....	J. F. Hess.....	162,382	Apr. 20, 1875	738	240	7	685
Cut-off, Rain-water.....	H. Wilkins.....	169,609	Nov. 2, 1875	272	88	8	771
Cut-off valve.....	W. F. Martin.....	170,483	Nov. 30, 1875	1157	364	8	919
Cut-off-valve-adjusting apparatus.....	H. C. Bull.....	159,071	Jan. 26, 1875	711	234	7	144
Cut-off valve gear.....	H. Bilgram.....	158,669	Jan. 12, 1875	298	101	7	66
Cut-off valve gear.....	H. Bilgram.....	164,132	June 8, 1875	280	96	7	980
Cut-off, Steam-engine.....	D. H. Smith.....	161,451	Mar. 30, 1875	1144	369	7	536
Cut-off, Steam-engine adjustable.....	H. Webster.....	159,130	Jan. 26, 1875	764	251	7	151
Cutlery, Attaching hollow handles to.....	O. W. Taft.....	161,295	Mar. 23, 1875	982	321	7	507
Cutlery-handle.....	O. W. Taft.....	160,969	Mar. 16, 1875	669	218	7	458
Cutlery-handles, Die for making pocket.....	W. H. Miller.....	160,059	Feb. 23, 1875	803	264	7	314
Cutlery-handles, Securing.....	E. C. Carleton.....	161,752	Apr. 6, 1875	140	48	7	589
Cutter:							
See Biscuit-cutter. Peat-cutter.							
Bolt and rivet cutter. Peg-cutter.							
Bread-cutter. Pipe-cutter.							
Button-hole cutter. Planer-cutter.							
Cake-cutter. Planing-machine cutter.							
Cheese-cutter. Screw-thread cutter.							
Cigar-tip cutter. Sod-cutter.							
Corn-cutter. Stalk-cutter.							
Corn-stalk cutter. Stencil-cutter.							
Curd-cutter. Straw-cutter.							
Feed-cutter. Thrashing-machine band-cutter.							
Fodder-cutter. Tobacco-cutter.							
Glass-cutter. Twine-cutter.							
Harvester-cutter. Vegetable-cutter.							
Matching-cutter. Washer-cutter.							
Meat-cutter. Weed-cutter.							
Mortise-cutter.							
Paper-cutter.							
Cutter and cutter-holder.....	T. T. Nash.....	168,576	Oct. 11, 1875	261	85	8	608
Cutter-bit.....	A. Streit.....	169,204	Oct. 26, 1875	859	280	8	709
Cutter-head.....	M. Buck.....	162,526	Apr. 27, 1875	892	285	7	713
Cutter-head.....	S. P. Randolph.....	165,868	July 20, 1875	728	222	8	133
Cutter-head.....	F. Schwamb.....	161,447	Mar. 30, 1875	1140	368	7	536
Cutter-head.....	G. J. Shimer.....	159,226	Jan. 26, 1875	854	279	7	164
Cutter-head.....	A. W. Slayton.....	161,287	Mar. 23, 1875	975	319	7	507
Cutter-stock, Manufacture of.....	L. Hardy.....	171,127	Dec. 14, 1875	450	148	8	1018
Cutters, Adjustable draft-bar for.....	J. P. Thompson.....	171,064	Dec. 14, 1875	387	128	8	1009
Cutting and polishing machine.....	A. B. Walters and C. Saunders.....	159,484	Feb. 2, 1875	230	75	7	216
Cutting and punching press.....	M. Von Culin.....	171,452	Dec. 21, 1875	771	254	8	1068
Cutting-instrument.....	J. G. Baker.....	162,007	Apr. 13, 1875	373	125	7	632
Cutting irregular forms, Machine for.....	G. A. Haley.....	158,793	Jan. 19, 1875	428	143	7	99
Cyclophore.....	R. C. Gwathmey.....	165,818	July 20, 1875	676	207	8	126
Cylinder, Drying.....	J. Butterworth.....	163,150	May 11, 1875	401	129	7	807
Cylinders, Lining for.....	E. Hill, jr.....	158,587	Jan. 12, 1875	226	76	7	55
D.							
Dairies, Cooling.....	J. Wilkinson.....	159,055	Jan. 26, 1875	699	230	7	142
Dam, Adjustable.....	W. Smith.....	167,946	Sept. 21, 1875	524	167 168	8	497

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Dams, Construction of.....	W. Schmolz.....	165,371	July 6, 1875	211	63	8	37
Damper.....	S. Stewart.....	161,714	Apr. 6, 1875	104	37	7	584
Damper.....	H. A. White.....	158,875	Jan. 19, 1875	501	168	7	109
Damper, Automatic.....	S. F. Gold.....	168,737	Oct. 11, 1875	408	132	8	630
Damper, Furnace.....	J. Woodruff.....	160,496	Mar. 2, 1875	217	75	7	380
Damper, Furnace.....	J. Woodruff.....	160,497	Mar. 2, 1875	219	75	7	380
Damper-regulator, Automatic.....	R. Tomlinson and J. Smith.....	159,477	Feb. 2, 1875	224	73	7	215
Damper, Stove-pipe.....	R. M. Breckenridge.....	160,386	Mar. 2, 1875	113	41	7	365
Damper, Stove-pipe.....	G. W. Leading.....	162,757	May 4, 1875	19	7	7	749
Damper, Stove-pipe.....	S. Selden and M. Griswold, jr.....	161,064	Mar. 23, 1875	757	250	7	479
Damper, Stove-pipe.....	H. H. Wilson and W. H. Rolfe.....	162,511	Apr. 27, 1875	881	282	7	711
Damper, Ventilating.....	A. A. Schroder.....	163,109	May 11, 1875	364	118	7	802
Darning-machine.....	O. S. Hosmer.....	162,656	Apr. 27, 1875	1002	322	7	727
Dash-board.....	C. C. Schwaner.....	159,848	Feb. 16, 1875	587	194	7	278
Dash-boards, Attaching.....	G. Schaffner.....	159,283	Feb. 2, 1875	37	13	7	190
Dasher-flap fastener.....	J. A. Kincaid.....	160,020	Feb. 23, 1875	768	253	7	309
Demijohn.....	C. Newman.....	159,038	Jan. 26, 1875	684	225	7	140
Demijohn-case.....	C. Newman.....	161,264	Mar. 23, 1875	955	311	7	504
Demijohn for malt liquors.....	D. H. Shourds.....	170,906	Dec. 7, 1875	221	76	8	980
Dental and barber's chair.....	S. C. Megill.....	169,825	Nov. 9, 1875	509	159 160	8	808
Dental articulator.....	C. D. Cheney.....	161,931	Apr. 13, 1875	314	105	7	624
Dental bib.....	R. Horton.....	162,170	Apr. 20, 1875	539	177	7	660
Dental cement.....	M. T. Labbé.....	166,878	Aug. 17, 1875	675	.....	8	312
Dental chair.....	E. T. Starr.....	171,443	Dec. 21, 1875	765	252	8	1067
Dental-chair head-rest.....	E. T. Starr.....	171,539	Dec. 28, 1875	873	285	8	1090
Dental drill.....	S. S. White.....	167,208	Aug. 31, 1875	1020	317	8	375
Dental-drill hand-piece.....	J. W. Gilbert.....	171,009	Dec. 14, 1875	337	112	8	1002
Dental engine.....	H. M. Edson and R. S. Evans.....	160,406	Mar. 2, 1875	131	46, 47	7	367
Dental engine.....	S. D. Engle.....	169,345	Nov. 2, 1875	20	6	8	737
Dental engine.....	W. W. Evans.....	169,346	Nov. 2, 1875	22	7	8	738
Dental engine.....	W. W. Evans.....	169,347	Nov. 2, 1875	23	7	8	738
Dental engine.....	E. P. Ryder.....	169,375	Nov. 2, 1875	74	16	8	742
Dental-engine attachment.....	T. L. Buckingham, E. T. Starr, and S. S. White.....	170,342	Nov. 23, 1875	1010	317	8	891
Dental engine, Electro-magnetic.....	J. Bishop.....	166,843	Aug. 17, 1875	635	198	8	307
Dental-engine fan.....	E. E. Hopkins and G. A. Reidler.....	168,023	Sept. 21, 1875	593	190	8	507
Dental-engine hand-piece.....	G. H. Cushing.....	169,342	Nov. 2, 1875	17	6	8	737
Dental-engine hand-piece.....	J. W. Gilbert.....	158,932	Jan. 19, 1875	561	186	7	116
Dental-engine hand-piece.....	W. A. Johnston.....	169,003	Oct. 19, 1875	655	216	8	673
Dental-engine hand-piece.....	E. T. Starr.....	170,125	Nov. 16, 1875	791	251	8	853
Dental-engine tool-carrier.....	T. Cogswell.....	170,057	Nov. 16, 1875	724	230	8	845
Dental engines, Apparatus for protecting and moisten- ing the disks of.....	E. T. Starr.....	159,048	Jan. 26, 1875	692	228	7	141
Dental engines, Burring and finishing tool for.....	F. Hickman.....	158,377	Jan. 4, 1875	22	8	7	12
Dental engines, Tooth-polishing attachment for.....	C. B. Ansart.....	159,626	Feb. 9, 1875	361	120	7	243
Dental filling.....	L. W. Sutton, jr.....	168,680	Oct. 11, 1875	354	.....	8	623
Dental fillings, Preparing.....	R. S. Williams.....	167,813	Sept. 14, 1875	402	129	8	471
Dental flask.....	W. C. Tracy.....	163,615	May 25, 1875	865	272	7	891
Dental flask.....	C. A. White.....	162,129	Apr. 13, 1875	484	160	7	646
Dental flask for rubber.....	S. D. Palmer.....	159,442	Feb. 2, 1875	182	62	7	210
Dental forceps.....	N. A. Durham.....	165,808	July 20, 1875	666	201	8	124
Dental forceps.....	A. Engel.....	164,820	June 22, 1875	933	302	7	1083
Dental forceps.....	L. J. P. E. Gaillard.....	168,012	Sept. 21, 1875	581	187	8	505
Dental instruments, Hand-piece for.....	J. W. Gilbert.....	158,635	Jan. 12, 1875	265	90	7	61
Dental mallet.....	J. T. Codman.....	162,154	Apr. 20, 1875	522	172	7	658
Dental mallet, Automatic.....	I. A. Salmon.....	166,228	Aug. 3, 1875	39	13	8	204
Dental mirror.....	T. Cogswell.....	163,578	May 25, 1875	828	262	7	886
Dental plate.....	J. N. Clark.....	160,573	Mar. 9, 1875	297	100	7	400
Dental plate.....	D. M. Lamb.....	159,687	Feb. 9, 1875	422	140	7	251
Dental plate.....	G. V. Pelyea.....	160,714	Mar. 9, 1875	421	140	7	418
Dental plates, Apparatus for forming.....	F. L. Hearson and J. H. Moseley.....	161,033	Mar. 23, 1875	732	241	7	476
Dental plates, Attaching disks to.....	Q. A. Scott.....	170,776	Dec. 7, 1875	112	35	8	965
Dental plates, Manufacture of.....	F. and G. G. Hickman.....	167,336	Aug. 31, 1875	1129	355	8	391
Dental plugger.....	J. W. Baxter.....	158,828	Jan. 19, 1875	515	172	7	110
Dental plugger.....	C. Bilharz.....	165,701	July 20, 1875	565	172	8	110
Dental plugger.....	T. Crossett.....	166,752	Aug. 17, 1875	557	171	8	295
Dental plugger.....	R. B. Donaldson.....	161,393	Mar. 30, 1875	1093	355	7	530
Dental plugger.....	L. J. P. E. Gaillard.....	159,173	Jan. 26, 1875	802	262	7	156
Dental plugger.....	A. J. Polk.....	166,139	July 27, 1875	1001	308	8	183
Dental plugger.....	G. Rehfus.....	167,197	Aug. 31, 1875	1010	314	8	374
Dental plugger.....	E. S. Rider.....	163,412	May 18, 1875	660	211	7	857
Dental plugger.....	E. S. Rider.....	171,170	Dec. 14, 1875	489	162	8	1023
Dental plugger.....	E. T. Starr.....	167,203	Aug. 31, 1875	1015	316	8	375
Dental plugger.....	S. D. Strohman.....	170,129	Nov. 16, 1875	795	252	8	854
Dental plugger.....	A. Williams.....	164,244	June 8, 1875	380	129	7	993
Dental plugger, Automatic.....	G. W. Levin.....	166,709	Aug. 17, 1875	517	158	8	229
Dental plugger, Automatic.....	G. W. Levin.....	166,710	Aug. 17, 1875	518	159	8	229
Dental plugger, Electro-magnetic.....	W. G. A. Bonwill.....	170,045	Nov. 16, 1875	713	226	8	843
Dental plugger, Electro-magnetic.....	G. F. Green.....	171,119	Dec. 14, 1875	441	146	8	1017
Dental plugger, Electro-magnetic.....	G. F. Green.....	171,120	Dec. 14, 1875	443	146	8	1017
Dental plugger, Electro-magnetic.....	G. F. Green.....	171,121	Dec. 14, 1875	444	146	8	1017
Dental plugger, Electro-magnetic.....	G. F. Green.....	171,123	Dec. 14, 1875	447	147	8	1017
Dental plugger, Pneumatic.....	G. W. Nichols.....	158,863	Jan. 19, 1875	491	165	7	107
Dental pluggers, Attachment to automatic.....	L. Duvinage.....	163,306	May 18, 1875	567	181	7	844
Dental polishing-tool.....	L. F. Locke.....	170,178	Nov. 23, 1875	867	271	8	871
Dental polishing-tool.....	S. S. White.....	169,753	Nov. 9, 1875	436	138	8	799
Dental pot.....	C. A. White.....	162,128	Apr. 13, 1875	483	159 160	7	646
Dental reflector.....	F. M. Osborn.....	159,836	Feb. 16, 1875	576	191	7	276
Dental rubber dams, Clamp for.....	D. Palmer.....	164,870	June 22, 1875	981	317	7	1029
Dental tool, Electro-magnetic.....	G. F. Green.....	159,028	Jan. 26, 1875	676	221	7	138
Dental tools, &c., Vulcanized-rubber handles for.....	R. B. Donaldson.....	171,106	Dec. 14, 1875	424	141	8	1014
Dental vulcanizing apparatus.....	H. M. Edson.....	163,755	May 25, 1875	982	311	7	906
Dental vulcanizing apparatus.....	F. Heindsmann.....	165,328	July 6, 1875	169	51	8	32

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Dentifrice composition	A. C. Dung	164,433	June 15, 1875	579		7	1028
Dentist's cabinet	T. Cogswell	159,501	Feb. 9, 1875	258	84	7	228
Dentist's chair	G. W. Archer	158,880	Jan. 19, 1875	505	169	7	109
Dentist's chair	J. B. Newbrough	170,012	Nov. 16, 1875	685	215	8	839
Deodorizer for bed-vessels	H. M. Small	159,773	Feb. 16, 1875	520	173	7	269
Derrick	C. L. Duroy	159,024	Jan. 26, 1875	673	219	7	138
Derrick	B. Freeman	167,398	Sept. 7, 1875	18	5	8	409
Derrick	M. Gray	166,202	Aug. 3, 1875	18	6	8	201
Derrick	W. C. Wetherill	167,863	Sept. 21, 1875	462	146	8	487
Derricks, Machine for operating	A. Jackson	169,996	Nov. 16, 1875	670	210	8	837
Desk	J. McClurg	169,651	Nov. 9, 1875	330	104	8	786
Desk and baggage-check box, Combined	G. E. Nichols	169,028	Oct. 19, 1875	682	224	8	676
Desk and seat, School	H. L. Andrews	164,248	June 8, 1875	386	131	7	994
Desk and wash-stand, Combined	E. E. Everitt	168,732	Oct. 11, 1875	402	131	8	629
Desk, Combined reading and writing	L. G. Fairbank	166,516	Aug. 10, 1875	327	99	8	253
Desk, Folding school	D. I. Stagg	167,033	Aug. 24, 1875	832	260	8	342
Desk, Office	F. H. Cutler	168,459	Oct. 5, 1875	123	43	8	583
Desk, Reading and writing	E. W. Stiles	167,586	Sept. 7, 1875	184	57	8	432
Desk, School	J. A. Dole	171,272	Dec. 21, 1875	615	201	8	1047
Desk, School	H. R. Fry	164,160	June 8, 1875	303	104	7	983
Desk, School	T. Redmayne	169,478	Nov. 2, 1875	141	46	8	754
Desks, Folding seat for school	U. Smith	163,611	May 25, 1875	863	271	7	890
Desks, Hinge-joint for school	C. H. Presbrey	162,099	Apr. 13, 1875	451	150	7	642
Detergent composition	J. W. Munger	170,183	Nov. 23, 1875	871	.....	8	871
Devaporizing apparatus	L. K. Fuller	170,844	Dec. 7, 1875	169	58	8	973
Dial, Gage	G. H. Crosby and A. C. Meady	164,908	June 29, 1875	1035	334	7	1104
Dial, Sun	W. H. McCoy	165,746	July 20, 1875	603	185	8	116
Diamonds in drills, Method of setting	C. A. Terrey	160,484	Mar. 2, 1875	205	70	7	378
Diamonds in metallic holders, Fitting	J. W. Branch	167,216	Aug. 31, 1875	1027	319	8	376
Diaper-pin	E. H. Gaylord	167,328	Aug. 31, 1875	1122	352	8	390
Die:							
See Bolt-heading die. Screw-cutting die.							
Horseshoe or easing Screw-heading die.							
Die-stock	J. J. Grant	167,165	Aug. 31, 1875	985	306	8	370
Die-stock	V. J. Reece	167,472	Sept. 7, 1875	79	25	8	417
Die-stocks, Threading	A. Saunders	170,119	Nov. 16, 1875	786	249	8	853
Digger:							
See Post-hole digger. Potato-digger.							
Dinner-box	J. S. Davis	167,648	Sept. 14, 1875	250	78	8	448
Dip-pipe of gas-works	A. Thomson	161,298	Mar. 23, 1875	984	322	7	508
Dip-pipe of hydraulic gas-mains	P. Munzinger	167,555	Sept. 7, 1875	154	48	8	428
Dip-pipe used in gas-making apparatus, Movable	W. Farmer	167,605	Sept. 14, 1875	214	66	8	443
Direct-acting engine	J. R. Paddock	167,408	Sept. 7, 1875	26	8	8	410
Dish, Air-tight	P. Shaw	160,236	Mar. 2, 1875	27	11	7	352
Dish-cloth holder	J. M. Brown	170,519	Nov. 30, 1875	1189	375	8	924
Dish, Covered	W. E. Hawkins	165,926	July 27, 1875	797	244	8	154
Dish-drainer	J. A. Fox	160,176	Feb. 23, 1875	898	296	7	328
Dish-stand, Wire	W. F. Collier	166,346	Aug. 3, 1875	146	45	8	220
Dish, Vegetable	E. Portington	164,208	June 8, 1875	346	118	7	989
Dish-washer	W. N. Cosgrove	158,684	Jan. 12, 1875	311	106	7	68
Dish-washer	M. E. Whiteside	170,923	Dec. 7, 1875	235	81	8	982
Dish-washing machine	H. H. Hall	166,098	July 27, 1875	960	296	8	177
Disinfecter and inhaler, Pocket	H. G. Dayton	168,972	Oct. 19, 1875	628	208	8	670
Disinfecting, deodorizing, and antiseptic composition	C. H. Bowen	168,219	Sept. 28, 1875	804	.....	8	543
Disinfecting sick-room slop-jars	C. F. Parker	166,135	July 27, 1875	995	307	8	182
Disintegrating-mill	G. B. Davids	160,884	Mar. 16, 1875	594	193	7	448
Disintegrating-mill	J. M. Hendricks	160,771	Mar. 16, 1875	499	162	7	435
Disintegrating-mill	J. M. Hendricks	168,642	Oct. 11, 1875	325	105	8	618
Dissolving and crystallizing apparatus	J. B. Root	163,260	May 11, 1875	503	164	7	820
Distillation of hydrocarbon oils	T. McGowan	166,285	Aug. 3, 1875	94	29	8	212
Distilling and rectifying liquors, Apparatus for	J. W. Reford	171,426	Dec. 21, 1875	749	{ 246 247 }	8	1065
Distilling oils	C. Van Devort and C. Van Vleet	168,542	Oct. 5, 1875	206	67	8	593
Ditching-machine	M. E. Burtless	168,967	Oct. 19, 1875	623	{ 206 207 }	8	669
Ditching-machine	H. H. Gray	158,701	Jan. 12, 1875	325	110	7	70
Ditching-machine	J. E. Landrum	170,631	Nov. 30, 1875	1299	410	8	938
Ditching-machine	H. and K. Olsen	166,626	Aug. 10, 1875	421	130	8	267
Ditching-machine	T. F. Randolph	159,118	Jan. 26, 1875	754	248	7	150
Ditching-machine	F. Taylor	167,805	Sept. 14, 1875	393	126	8	469
Ditching-machine	J. F. Williamson and J. H. Sorey	159,371	Feb. 2, 1875	116	40, 41	7	200
Dividers, compasses, and calipers, Adjustable mechanism of	J. H. Potts	164,209	June 8, 1875	347	118	7	989
Dividers, Lead-holder for	S. L. Fox	162,048	Apr. 13, 1875	409	137	7	637
Dock and ponton, Floating	J. L. Clark and J. Standfield	162,531	Apr. 27, 1875	897	{ 286 287 }	7	713
Dock, Floating	J. L. Clark and J. Standfield	169,010	Oct. 19, 1875	663	218	8	674
Docks, &c., Vessel for removing foul water from	H. H. Vogeding	165,894	July 20, 1875	751	230	8	136
Doffer-combs, Mechanism for operating	J. K. Proctor	166,408	Aug. 3, 1875	210	63	8	228
Doll	W. Miller	164,582	June 15, 1875	703	229	7	1045
Doll	A. W. Monroe	159,437	Feb. 2, 1875	178	60	7	209
Doll-heads, &c., Manufacture of	E. S. Judge	166,111	July 27, 1875	971	.....	8	179
Doll, Walking	A. E. Hotchkiss	167,899	Sept. 21, 1875	490	155	8	491
Domino	C. M. Hyatt	162,072	Apr. 13, 1875	428	143	7	639
Domino-spotting machine	I. S. J. W., and C. M. Hyatt	164,840	June 22, 1875	951	308	7	1086
Door	W. C. Hurd	161,965	Apr. 13, 1875	341	114	7	628
Door-alarm	D. E. Spoor and E. P. Searle	170,108	Nov. 23, 1875	1072	338	8	899
Door and shutter fastener	D. W. Barr	162,011	Apr. 13, 1875	376	126	7	632
Door-bolt	W. H. Birge	162,617	Apr. 13, 1875	381	128	7	633
Door-bolt	W. C. Hurd	161,684	Apr. 6, 1875	82	29	7	581
Door-bolt	H. J. Iles	167,338	Aug. 31, 1875	1130	355	8	391
Door-check	C. W. Breidenbach and E. E. Euchenhofer	169,407	Nov. 2, 1875	80	25	8	745
Door-check	G. Burt	162,217	Apr. 20, 1875	580	190	7	608

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Door-check	H. B. Church	166,259	Aug. 3, 1875	69	21	8	208
Door-check	E. S. Granel	168,151	Sept. 28, 1875	747	236	8	535
Door-check	D. Gundelfinger	161,505	Mar. 30, 1875	1204	386	7	544
Door-check	M. H. Matsinger	162,934	May 4, 1875	182	60	7	771
Door-check	J. H. McClymonds	165,847	July 20, 1875	709	216	8	130
Door-check	J. Naughten	165,607	July 13, 1875	462	141	8	81
Door-check	G. Royle	160,285	Mar. 2, 1875	26	10	7	352
Door-check	W. Vandeventer	167,590	Sept. 7, 1875	187	58	8	432
Door-check	W. H. Willis	164,701	June 22, 1875	826	269	7	1070
Door-checks, Attaching rubber cushions to	J. Shepard	160,476	Mar. 2, 1875	196	67	7	377
Door-hanger	T. Harris	169,695	Nov. 9, 1875	378	118	8	792
Door-hanger	J. Herald and E. S. Rumsey	158,796	Jan. 19, 1875	431	144	7	100
Door-hanger	W. Johnston	160,598	Mar. 9, 1875	319	108	7	403
Door-hanger	J. Lambert	161,619	Apr. 6, 1875	26	11	7	572
Door-hanger, Sliding	L. A. Cook	168,618	Oct. 11, 1875	299	97	8	614
Door-key, Folding	B. Erbe	160,660	Mar. 9, 1875	372	125	7	411
Door-knob	A. Rankin	169,036	Oct. 19, 1875	688	227	8	677
Door-lock	D. F. Austin	169,611	Nov. 9, 1875	288	93	8	781
Door-lock	C. L. Bates	169,401	Nov. 2, 1875	76	23	8	745
Door-lock	A. Goldfinger	165,995	July 27, 1875	863	265	8	163
Door, &c., lock	J. G. L. Martin	166,619	Aug. 10, 1875	415	128	8	266
Door-lock	J. G. L. Martin	166,620	Aug. 10, 1875	417	128	8	266
Door-lock	W. Unverzagt	165,041	June 29, 1875	1147	370	7	1119
Door, &c., lock	P. Werni	162,984	May 4, 1875	233	75	7	778
Door, &c., lock	H. Winn	160,859	Mar. 16, 1875	572	186	7	445
Door, &c., lock	H. Winn	161,315	Mar. 23, 1875	1000	327	7	510
Door, &c., lock	H. Winn	161,371	Mar. 30, 1875	1069	348	7	527
Door lock, Sliding	F. Corbin	166,505	Aug. 10, 1875	319	96	8	252
Door lock, Sliding	T. Lyon and E. Parker	166,470	Aug. 10, 1875	291	87	8	248
Door-mat	O. Rice	158,441	Jan. 5, 1875	74	27	7	20
Door-mat	O. Rice	163,411	May 18, 1875	659	211	7	857
Door-plate	B. D. Stevens	160,482	Mar. 2, 1875	202	69	7	377
Door-plate-casting mold	F. L. Dodge and C. E. Smith	169,154	Oct. 26, 1875	820	266	8	703
Door pull, Sliding	H. H. Elwell	170,357	Nov. 23, 1875	1022	320	8	893
Door-screen	A. A. Carter	171,501	Dec. 28, 1875	841	27	8	1086
Door-securer	G. Burt	168,556	Oct. 11, 1875	238	78	8	605
Door-securer	L. Marks	164,688	June 22, 1875	811	265	7	1068
Door-sill	T. F. McEy	163,224	May 11, 1875	468	151	7	816
Door-spring	A. T. Ballantine	159,785	Feb. 16, 1875	530	177	7	270
Door-spring	J. M. Blood	169,405	Nov. 2, 1875	78	24	8	745
Door-spring	A. B. Chatfield	171,549	Dec. 28, 1875	882	288	8	1092
Door-spring	O. F. Comfort	167,989	Sept. 21, 1875	556	176	8	502
Door-spring	J. B. Cottom	158,833	Jan. 19, 1875	465	156	7	104
Door-spring	D. R. Lewis	169,110	Oct. 26, 1875	783	254	8	698
Door-spring	W. H. Myers	170,887	Dec. 7, 1875	203	70	8	978
Door-spring	J. A. Robbins	171,171	Dec. 14, 1875	491	162	8	1023
Door-spring	J. B. Starkweather	165,626	July 13, 1875	485	147	8	84
Door-spring	L. A. Warner	167,284	Aug. 31, 1875	1084	340	8	385
Door-spring attachment	W. M. Gray	169,351	Nov. 2, 1875	26	8	8	738
Dose-register	D. L. Hawkins	163,488	May 18, 1875	729	232	7	866
Double-tree clip	W. Beckert	169,135	Oct. 26, 1875	804	261	8	701
Doubling and twisting machine	J. F. Wicks	168,309	Sept. 28, 1875	881	282	8	554
Doubling-machine	T. Unsworth	169,315	Oct. 26, 1875	969	313	8	724
Dough-kneading board	L. L. Black	160,254	Mar. 2, 1875	2	1	7	349
Dough-mixer	E. G. Morrison	162,187	Apr. 20, 1875	553	182	7	662
Dovetailing-machine	L. Atwood	169,132	Oct. 26, 1875	802	260	8	701
Dovetailing-machine	C. P. Baile	167,727	Sept. 14, 1875	318	102	8	458
Draft-equalizer	E. A. Beers	159,558	Feb. 9, 1875	313	102	7	235
Draft-equalizer	W. H. Brown	161,476	Mar. 30, 1875	1170	376	7	539
Draft-equalizer	J. M. Buckner	168,370	Oct. 5, 1875	48	17	8	571
Draft-equalizer	H. Cartwright	170,232	Nov. 23, 1875	915	285	8	877
Draft-equalizer	E. Graham	168,248	Sept. 28, 1875	829	264	8	547
Draft-equalizer	A. Hunt and B. M. Butterfield	167,337	Aug. 31, 1875	1130	355	8	391
Draft-equalizer	W. McClelland, sr.	161,623	Apr. 6, 1875	30	12	7	573
Draft-equalizer	L. J. Seely	160,355	Mar. 2, 1875	87	32	7	361
Draft-equalizer	H. Sensenbaugh	166,630	Aug. 10, 1875	434	134	8	268
Draft-equalizer	L. F. Smith	170,690	Dec. 7, 1875	35	10	8	955
Draft-equalizer	W. Snow	162,584	Apr. 27, 1875	943	303	7	719
Draft-equalizer	S. E. Winsor	168,699	Oct. 11, 1875	371	121	8	625
Draft-equalizer	A. Whittemore	165,395	July 6, 1875	242	73	8	41
Draft-regulator	J. Woodruff	160,498	Mar. 2, 1875	219	76	7	380
Draftsman's mixing-cup	H. King	164,308	June 8, 1875	445	147	7	1001
Drag	W. Gardner	159,811	Feb. 16, 1875	556	185	7	273
Drag	D. Miller	168,516	Oct. 5, 1875	179	58	8	590
Drag-rake handle	H. Smith and W. Galbraith	171,325	Dec. 21, 1875	658	216	8	1053
Drain and sewer pipe	D. C. Sage	171,245	Dec. 21, 1875	588	193	8	1044
Drain-pipe composition	W. H. Haight and T. S. Gladding	161,84	June 8, 1875	240	.....	7	975
Draw-bars, Spring-case for	J. Turner	161,301	Mar. 23, 1875	988	323	7	508
Draw-head	J. H. Cartside	161,335	Mar. 30, 1875	1036	337	7	522
Drawer	J. A. Knight	158,423	Jan. 5, 1875	61	21, 22	7	18
Drawer and folding desk, Combined	J. A. Knight	158,421	Jan. 5, 1875	60	21	7	17
Drawer-lock	R. W. Whitney	158,876	Jan. 19, 1875	502	169	7	109
Drawer-locking device, Desk	J. H. Williams	170,145	Nov. 16, 1875	812	256	8	856
Drawer-pull	W. N. Weeden	163,557	May 18, 1875	796	252	7	874
Drawer, Tilting	W. S. Moses	171,036	Dec. 14, 1875	357	119	8	1005
Drawers	J. J. Fitzpatrick	161,773	Apr. 6, 1875	157	54	7	591
Drawers for invalids, Rubber	M. Bradley	167,215	Aug. 31, 1875	1026	319	8	376
Drawing and spinning frames, Top-roll covering for	E. Atkinson and E. Edwards	165,197	July 6, 1875	55	16	8	16
Drawing and spinning machine regulator, Hemp	J. Good	164,546	June 15, 1875	672	218	7	1040
Drawing-board	W. B. O. Peabody	161,982	Apr. 13, 1875	354	119	7	629
Drawing-board	J. B. Webb	159,870	Feb. 16, 1875	609	201	7	281
Drawing-board attachment	J. C. Hintz	169,543	Nov. 2, 1875	213	67, 68	8	762
Drawing-boards, Attaching T-squares to	W. B. Stevenson	165,888	July 20, 1875	746	228	8	135

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Drawing-frame stopping mechanism	D. W. Hayden	166, 276	Aug. 3, 1875	82	26	8	211
Drawing-rolls, Clearer for	B. F. Gambrell and J. L. Sheridan	158, 698	Jan. 12, 1875	322	109	7	69
Dray, Three-wheeled	J. W. Minor	167, 776	Sept. 14, 1875	368	117	8	465
Dredge	G. Kuhn	158, 717	Jan. 12, 1875	339	116	7	72
Dredge-box	E. Mather	161, 891	Apr. 13, 1875	277	93	7	620
Dredger, Pneumatic	W. Smith	165, 035	June 29, 1875	1141	368	7	1118
Dredger, Rotary	A. Hawley	171, 380	Dec. 21, 1875	707	233	8	1060
Dredgers, Diking attachment for	G. W. Parsons	168, 409	Oct. 5, 1875	82	28	8	576
Dredging apparatus	W. H. Newton	168, 278	Sept. 28, 1875	857	273	8	550
Dredging-box	J. S. Field	160, 663	Mar. 9, 1875	375	126	7	411
Dredging-box	F. T. Goodwin and A. Ives	165, 670	July 20, 1875	539	164	8	107
Dredging-bucket	C. J. Sands	159, 223	Jan. 26, 1875	850	278	7	163
Dredging-bucket	C. J. Sands	169, 299	Oct. 26, 1875	951	308	8	721
Dredging-machine	R. R. Osgood	162, 849	May 4, 1875	103	33	7	760
Dredging-machine	R. R. Osgood	165, 608	July 13, 1875	463	142	8	81
Dredging-machine	R. R. Osgood and T. Brotherhood	162, 763	May 4, 1875	24	9	7	750
Dredging-machine spud	E. F. Kittoe	159, 685	Feb. 9, 1875	420	140	7	250
Dress-supporter clasp, Lady's	E. A. Bliss	167, 428	Sept. 7, 1875	46	13	8	412
Dressing-case or combined bureau and wardrobe	J. H. Horsfall	164, 087	June 8, 1875	242	83	7	975
Drier:							
See Brick-drier. Lumber-drier.							
Clothes-drier. Paint-drier.							
Fertilizer-drier. Sand and gravel drier.							
Fruit-drier. Sugar-drier.							
Glue-drier. Tobacco-drier.							
Grain-drier. Wood-drier.							
Lard-drier.							
Drier	I. B. Cottrell	171, 355	Dec. 21, 1875	686	226	8	1057
Drier	J. F. Gent	165, 228	July 6, 1875	80	24	8	20
Drier	J. E. Register	161, 156	Mar. 23, 1875	850	277	7	490
Drier and bake-oven, Combined	J. Zimmerman	163, 564	May 18, 1875	802	254	7	875
Drier and baker	W. P. Corsa	164, 974	June 29, 1875	1091	352	7	1111
Drill:							
See Coal-shelling drill. Mining-drill.							
Corn-drill. Ratchet-drill.							
Dental drill. Rock-drill.							
Expansion-drill. Seed-drill.							
Grain-drill. Twist-drill.							
Metal drill. Well-boring drill.							
Metal-drilling drill.							
Drill and fertilizer distributor	A. S. Wishart	171, 461	Dec. 21, 1875	779	258	8	1069
Drill-bit	T. P. Farmer	161, 106	Mar. 23, 1875	804	264	7	485
Drill, countersink, and planer, Combined	W. McCrosson	158, 958	Jan. 19, 1875	586	194	7	119
Drill hand-protecting attachment	W. M. Hance	163, 067	May 11, 1875	328	106	7	797
Drill-holes, Apparatus for charging	R. G. Baldwin	166, 840	Aug. 17, 1875	633	197	8	306
Drill, planter, and roller, Combined	S. Brown	168, 714	Oct. 11, 1875	384	125	8	627
Drill-sharpening machine	W. H. Eddy	166, 515	Aug. 10, 1875	326	99	8	253
Drill-stock	J. Hammond	168, 741	Oct. 11, 1875	411	133	8	630
Drills from holes, Machine for removing broken	J. W. Platt	163, 406	May 18, 1875	655	209	7	856
Drilling apparatus	J. M. Kay	163, 503	May 18, 1875	747	237	7	868
Drilling machine, Metal	S. W. Putnam	170, 591	Nov. 30, 1875	1261	396	8	933
Drilling-machine, Portable	M. Stephenson	160, 361	Mar. 2, 1875	92	34	7	362
Drinking-cup, Invalid	W. W. Fowler	162, 640	Apr. 27, 1875	985	317	7	724
Drinks, Cup for effervescing	W. C. Dodge	166, 350	Aug. 3, 1875	149	46	8	221
Drip-pan, Barrel	J. A. Clark	163, 360	May 18, 1875	615	196	7	851
Dripping stand for vessels	H. C. Collison	162, 998	May 11, 1875	262	85	7	889
Driving-bit	C. Henie and A. S. Jenks	164, 375	June 15, 1875	521	171	7	1021
Drop-light	J. C. Love	159, 941	Feb. 16, 1875	674	223	7	289
Drop-light	R. M. Shouls	170, 779	Dec. 7, 1875	114	36	8	965
Drop-light, Friction-slide	J. T. Bruen	164, 802	June 22, 1875	916	297	7	1081
Drop-press, Steam	W. H. H. Sisum	162, 200	Apr. 20, 1875	564	185	7	664
Dropper:							
See Corn-dropper. Potato-dropper.							
Harvester-dropper. Seed-dropper.							
Harvester sheaf-dropper.							
Drum and water-heater, Smoke	N. A. Moore	170, 854	Dec. 7, 1875	200	69	8	977
Drum-heater	C. Skinner	167, 129	Aug. 23, 1875	925	288	8	375
Drum, Heating	T. B. Field	170, 247	Nov. 23, 1875	928	289	8	879
Drum, Heating	J. J. Hardenbrooke	171, 378	Dec. 21, 1875	706	232	8	1060
Drum, Heating	J. N. Kneeland	158, 380	Jan. 5, 1875	25	9	7	12
Drum, Heating	J. S. Lewis	170, 482	Nov. 30, 1875	1156	364	8	919
Drum, Heating	F. Munson and L. E. Dick	167, 777	Sept. 14, 1875	369	117	8	465
Drum, Heating	F. Proudfoot	159, 966	Feb. 16, 1875	696	231	7	292
Drum, Smoke	J. Bowman	164, 712	June 22, 1875	835	272	7	1071
Drum stove	W. Boehmer	159, 888	Feb. 16, 1875	628	208	7	283
Drum, Stove-pipe	E. W. Prior	162, 496	Apr. 27, 1875	869	278	7	710
Drum, Stove-pipe	B. F. Stockford	165, 517	July 13, 1875	983	114	8	69
Drum, Ventilating and warming	P. H. Carman	159, 074	Jan. 26, 1875	715	236	7	144
Dry-goods stand, Revolving	J. J. Bisel	168, 131	Sept. 28, 1875	727	229	8	532
Drying apparatus	L. K. Fuller	165, 088	June 29, 1875	1188	382	7	1124
Drying apparatus	W. J. Johnson	158, 590	Jan. 12, 1875	228	77	7	56
Drying apparatus	J. S. Rogers	169, 194	Oct. 26, 1875	851	278	8	708
Drying apparatus	S. T. Swasey	161, 990	Apr. 13, 1875	360	121	7	630
Drying apparatus	T. Webber	169, 500	Nov. 2, 1875	158	52, 53	8	757
Drying apparatus	A. Wilder	170, 924	Dec. 7, 1875	236	81	8	982
Drying-kiln	D. Bonnell	169, 230	Oct. 26, 1875	885	288	8	713
Drying kiln and furnace	B. F. Cawthorn and A. J. Conner	160, 004	Feb. 23, 1875	755	250	7	308
Drying-rack	J. B. Stratton	158, 540	Jan. 5, 1875	164	56	7	32
Drying wheel, Steam	H. J. Medberg, H. A. Mann, jr., and S. H. Drake	171, 523	Dec. 28, 1875	859	281	8	1088
Dulcimer and similar musical instruments	J. A. McKenzie	171, 031	Dec. 14, 1875	353	118	8	1005

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Dust-pan	F. D. Bliss	162,524	Apr. 27, 1875	891	285	7	712
Dust-pan	E. Kramm	168,839	Oct. 19, 1875	507	166	8	652
Duster, Feather	H. L. Harrison	165,574	July 13, 1875	434	131	8	77
Duster, Furniture	O. Griswold	163,311	May 18, 1875	571	183	7	845
Dwelling-elevator	G. R. Potter	171,167	Dec. 14, 1875	487	161	8	1022
Dye in black silks, thread, &c., Testing	W. H. Seaman	169,377	Nov. 2, 1875	55	.....	8	742
Dyeing and calico-printing	J. Harley	168,991	Oct. 19, 1875	645	.....	8	672
Dyeing and printing	J. S. Sellon and R. Pinkney	167,360	Aug. 31, 1875	1150	.....	8	394
Dyeing and printing textile fabrics	J. Harley	170,626	Nov. 30, 1875	1293	.....	8	937
Dyeing apparatus	S. M. and C. T. Smith	169,859	Nov. 9, 1875	542	169	8	812
Dyeing cloth, Frame for	E. Brierley	166,450	Aug. 10, 1875	275	82	8	245
Dyeing fabrics, Process of	A. Schultz	170,307	Nov. 23, 1875	980	.....	8	886
Dyeing silk fabrics, Process of	J. B. C. H. Petitdidier	163,521	May 18, 1875	768	.....	7	870
Dynamic wrench	S. Plymale	164,100	June 8, 1875	253	87	7	976
E.							
Ear-ring	A. S. Baker	161,853	Apr. 13, 1875	240	80	7	615
Earth-battery	J. C. Bryan	160,152	Feb. 23, 1875	879	290	7	325
Earth-boring apparatus	J. R. Davis and J. R. Mills	170,437	Nov. 30, 1875	1114	351	8	913
Earth-boring apparatus	O. Martin	164,689	June 22, 1875	812	265	7	1068
Earth-boring apparatus	W. M. Ruth and W. Crain	169,590	Nov. 2, 1875	252	82	8	768
Earth-closet	M. H. Synge	192,116	Apr. 13, 1875	472	156	7	644
Earth-closet	C. A. Wakefield	164,348	June 8, 1875	485	160	7	1007
Earthenware and pottery, Manufacture of	W. Galloway	162,911	May 4, 1875	159	52	7	768
Earthenware, Bailed	B. F. Roberts	170,192	Nov. 23, 1875	878	275	8	872
Earthenware-pipes, Machine for forming sockets on	H. B. Camp	165,710	July 20, 1875	571	175	8	111
Earthenware-pipes, Machine for making curved	H. B. Camp	161,202	Mar. 23, 1875	886	291	7	496
Easel, carriage-painters'	A. Hogue	160,324	Mar. 2, 1875	62	22	7	357
Easel, carriage-painters'	A. G. Rykert	160,959	Mar. 16, 1875	661	216	7	457
Easel, Parlor	E. G. Chormann	167,432	Sept. 7, 1875	48	14, 15	8	413
Eave-trough	C. A. Coddington	168,231	Sept. 28, 1875	813	258	8	544
Eave-trough	O. W. Stearns	168,934	Oct. 19, 1875	596	197	8	665
Eave-trough	R. Tyhurst	165,388	July 6, 1875	232	70	8	40
Eave-trough hanger	J. P. Abbott	167,422	Sept. 7, 1875	42	12	8	412
Eave-trough hanger	J. P. Abbott	171,253	Dec. 21, 1875	596	195	8	1045
Eave-trough hanger	J. F. and L. Hess	163,655	May 25, 1875	898	285	7	895
Eave-trough hanger	E. Kirk, jr.	158,419	Jan. 5, 1875	59	20	7	17
Eave-trough hanger	W. E. Manrow	168,572	Oct. 11, 1875	257	84	8	608
Eave-trough hanger	H. K. and T. S. Stohler	166,905	Aug. 17, 1875	698	216	8	315
Eave-trough hanger	W. H. and H. W. Trissler	167,955	Sept. 21, 1875	331	170	8	498
Eave-trough-making machine	W. W. Laing	164,567	June 15, 1875	691	224	7	1043
Egg and fruit box cover fastening	W. Weis	165,044	June 29, 1875	1151	371	7	1119
Egg-batter, Apparatus for desiccating	W. O. Stoddard	167,801	Sept. 14, 1875	389	124	8	469
Egg-batter, Preparation of	W. O. Stoddard	167,587	Sept. 7, 1875	185	.....	8	432
Egg-beater	M. Cline	160,815	Mar. 16, 1875	539	175	7	440
Egg-beater	J. Howes	165,585	July 13, 1875	443	134	8	78
Egg-beater	M. Lozo	168,510	Oct. 5, 1875	172	56	8	589
Egg-beater	W. Redheffer	166,143	July 27, 1875	1005	310	8	183
Egg-beater	J. F. Rote	166,412	Aug. 3, 1875	215	65	8	229
Egg-beater	F. E. Schonmeyer	167,696	Sept. 14, 1875	290	92	8	454
Egg-box	W. H. Holdam	165,233	July 6, 1875	83	25	8	20
Egg-box	O. Sutphen	166,317	Aug. 3, 1875	121	38	8	216
Egg-carrier	E. Barnett and W. H. Garrett	158,824	Jan. 19, 1875	456	152	7	103
Egg-carrier	A. H. Bryant	158,828	Jan. 19, 1875	461	154	7	104
Egg-carrier	J. L. Stevens	163,274	May 11, 1875	516	{ 167 168 }	7	821
Egg-carrier	W. Weis	168,692	Oct. 11, 1875	362	119	8	624
Egg-holder	A. W. Porter	159,213	Jan. 26, 1875	842	275	7	162
Egg-preserving apparatus	F. D. Stone and W. Murray	167,135	Aug. 24, 1875	931	220	8	356
Egg-preserving compound	E. A. Snyder	169,595	Nov. 2, 1875	257	.....	8	769
Egg-tester	W. Henckler and H. A. Troegeler	165,824	July 20, 1875	687	210	8	127
Egg-tester	J. W. Van Arnim	162,870	May 4, 1875	122	40	7	763
Egg-tester	W. W. Wilson	166,671	Aug. 10, 1875	462	142	8	272
Egg-turning device	R. Tyler	168,942	Oct. 19, 1875	601	199	8	666
Eggs, Composition for preserving	J. R. Boone	167,637	Sept. 14, 1875	242	.....	8	447
Eggs, Machinery for desiccating	W. O. Stoddard	169,311	Oct. 26, 1875	964	312	8	723
Eggs, Preserving	F. H. L. C. Sacc	170,494	Nov. 30, 1875	1165	.....	8	921
Eggs, Substitute for	J. A. Griffen	170,670	Dec. 7, 1875	16	.....	8	953
Ejecting water, Apparatus for	I. Dreyfus	166,080	July 27, 1875	940	290	8	174
Ejector	L. B. Fulton and J. Proeger	159,256	Feb. 2, 1875	12	4	7	186
Ejector attachment for vacuum-brakes	G. Westinghouse, jr.	168,119	Sept. 28, 1875	713	225	8	530
Ejector, Fluid	A. A. Atkins	159,739	Feb. 16, 1875	486	163	7	265
Elastic fabric	M. H. Leonard and J. H. Buckley	170,572	Nov. 30, 1875	1237	390	8	930
Elastic fabric	A. Turner	170,606	Nov. 30, 1875	1275	{ 401 402 }	8	935
Electric-alarm circuit	G. C. Maynard	165,602	July 13, 1875	458	139	8	80
Electric light	S. A. Kosloff	166,877	Aug. 17, 1875	673	209	8	311
Electric motor	C. J. B. Gaume	163,924	June 1, 1875	72	24	7	940
Electric motor	D. Williamson	160,495	Mar. 2, 1875	216	74, 75	7	3-0
Electric-signal apparatus, Steam-vessel	C. A. Stearns	165,183	July 6, 1875	39	11, 12	8	14
Electric-signal circuit	T. S. Hall and G. H. Snow	165,570	July 13, 1875	431	130	8	76
Electric track-circuit, Connector for	W. Robinson	166,225	Aug. 3, 1875	37	12	8	204
Electrical-induction apparatus	R. K. Boyle	169,514	Nov. 2, 1875	173	57	8	758
Electrical machine, Frictional	G. M. Mowbray	162,676	Apr. 27, 1875	1024	328	7	729
Electro-magnet	M. A. Rice	160,120	Feb. 23, 1875	852	281	7	321
Electro-magnet for relays, &c., Adjustable	T. A. Edison	160,405	Mar. 2, 1875	131	46	7	367
Electro-magnetic engine	J. Bishop	171,087	Dec. 14, 1875	406	135	8	1012
Electro-magnetic engine	T. Chutaux	165,064	June 29, 1875	1168	376	7	1122
Electro-magnetic engine	C. A. Hussey	166,527	Aug. 10, 1875	335	102	8	254
Electro-magnetic engine	A. Tittman	166,431	Aug. 3, 1875	234	72	8	232
Electro-therapeutic appliances	E. J. French	167,162	Aug. 31, 1875	982	305	8	370
Electro-therapeutic bath	J. Becker and W. D. Hoffman	158,890	Jan. 19, 1875	517	173	7	111
Electro-therapeutic bath	J. W. Moliere	162,091	Apr. 13, 1875	444	148	7	641
Electrode, Caustery	J. Kidder	164,183	June 8, 1875	326	111	7	986

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Electrode, Reservoir	J. Kidder	164, 185	June 8, 1875	327	111	7	986
Electrode, Vesicular	J. Kidder	164, 184	June 8, 1875	327	111	7	986
Electroplated figure, &c	W. E. Worthen and R. S. Gillespie	168, 442	Oct. 5, 1875	107	36	8	580
Electroplating glass, china, &c	E. Hansen	166, 606	Aug. 10, 1875	404	.....	8	265
Electroplating-rack	H. E. Osborn	158, 972	Jan. 19, 1875	597	198	7	121
Electroplating solution	H. G. Coyle	162, 627	Apr. 27, 1875	975	.....	7	723
Electroplating statuettes, &c	W. E. Worthen and R. S. Gillespie	171, 464	Dec. 21, 1875	782	{ 258 259 }	8	1070
Electroplating with nickel	H. P. Dechert	162, 630	Apr. 27, 1875	977	.....	7	724
Electroplating with nickel, Anodes for	A. Hermann and W. H. Taylor	166, 367	Aug. 3, 1875	164	50	8	223
Electrotype seamless mold	M. Joyce	161, 238	Mar. 23, 1875	925	.....	7	500
Electrotype-shells, Backing	J. S. Brooks	163, 449	May 18, 1875	690	220	7	861
Elevator:							
See Coal-elevator. Hydraulic elevator.							
Dwelling-elevator. Saccharine-liquid elevator.							
Fire-escape elevator. Scuttle-elevator.							
Grain-elevator. Skirt-elevator.							
Hay-elevator. Stump-elevator.							
Hay and grain elevator. Vehicle-elevator.							
Hod-elevator. Water-elevator.							
Elevator	B. T. Babbitt	170, 327	Nov. 23, 1875	1000	313	8	889
Elevator	D. S. Bailey	164, 359	June 15, 1875	507	167	7	1019
Elevator	J. H. Bancroft	164, 069	June 8, 1875	225	79	7	973
Elevator	H. H. Blake	163, 354	May 18, 1875	611	195	7	850
Elevator	H. W. Brinckerhoff	165, 472	July 13, 1875	344	101	8	62
Elevator	W. H. Brown	166, 496	Aug. 10, 1875	311	94	8	250
Elevator	C. H. Guiles	160, 183	Feb. 23, 1875	903	298	7	329
Elevator	J. W. Meikle	161, 892	Apr. 13, 1875	277	93	7	620
Elevator	H. Pearce	160, 615	Mar. 9, 1875	333	112	7	405
Elevator	H. J. Reedy	160, 469	Mar. 2, 1875	190	65, 66	7	376
Elevator	J. B. Sweetland	160, 850	Mar. 16, 1875	565	{ 183 184 }	7	444
Elevator	L. L. Whitlock	158, 613	Jan. 12, 1875	246	83	7	59
Elevator-brake, Automatic	H. Pearce	167, 560	Sept. 7, 1875	158	50	8	428
Elevator-brake, Automatic	S. R. Smith and E. Myers	164, 603	June 15, 1875	721	{ 234 235 }	7	1047
Elevator-bucket	J. B. Cline	165, 543	July 13, 1875	408	122	8	72
Elevator-cage, Dumping	J. McCullough	160, 112	Feb. 23, 1875	845	278	7	320
Elevator-gearing, Internal	E. Schlenker	166, 722	Aug. 17, 1875	530	162	8	291
Elevator safety-catch	F. B. Perkins	162, 252	Apr. 20, 1875	614	200	7	670
Ellipsograph	M. Toulmin	165, 385	July 6, 1875	230	69	8	40
Embankments, Mattress for forming	J. B. Eads and J. Andrews	170, 832	Dec. 7, 1875	158	52, 53	8	971
Embossing-machine	S. Rogerson	169, 295	Oct. 26, 1875	947	307	8	721
Embossing or printing stamp	J. A. Smart	162, 201	Apr. 20, 1875	566	186	7	664
Embossing wood, Machine for	U. A. Lantaigne	158, 952	Jan. 19, 1875	578	191	7	118
Embossing wood, Process of	W. Sochefsky	161, 290	Mar. 23, 1875	978	.....	7	507
Embroidering-machine	F. Michalet and P. Bourget	164, 751	June 22, 1875	868	283	7	1076
Embroidering-machine	R. M. Rose	170, 596	Nov. 30, 1875	1266	398	8	933
Embroidery-patterns, Apparatus for stamping	J. McGavin	160, 113	Feb. 23, 1875	846	278	7	321
Emery grinding-machine	E. W. Gunn and G. D. and H. Wells	161, 951	Apr. 13, 1875	329	111	7	626
Emery to metal surfaces, Applying	S. G. Morrison	163, 880	June 1, 1875	38	12	7	935
Emery-wheel	S. G. Morrison	163, 025	May 11, 1875	290	94	7	792
Emery-wheel-turning tool	J. D. Huntington	168, 643	Oct. 11, 1875	326	106	8	618
Emery-wheels, Rest for truing off	E. Thomas	161, 717	Apr. 6, 1875	107	38	7	584
End-gate	E. G. Martin	169, 461	Nov. 2, 1875	127	40	8	752
End-gate fastening	J. W. Collins	159, 563	Feb. 9, 1875	316	103	7	235
Engine:							
See Air-engine. Paper-pulp engine.							
Air and gas engine. Pneumatic engine.							
Air hand-engine. Portable engine.							
Air-vacuum engine. Propeller-engine.							
Carding-engine. Pumping-engine.							
Compound engine. Reciprocating-cylinder							
Compound steam-engine. revolving engine.							
Condensing-engine. Reciprocating steam-en-							
Dental engine. gine.							
Direct-acting engine. Road-engine.							
Electro-magnetic engine. Rock-drilling engine.							
Fire-engine. Rotary engine.							
Gas-engine. Rotary steam-engine.							
Hoisting-engine. Stationary engine.							
Hydraulic engine. Steam-engine.							
Motive-power engine. Traction-engine.							
Oscillating engine.							
Engine dash-pot	F. Steele	167, 950	Sept. 21, 1875	527	169	8	498
Engraving-machining	R. W. Johnson	167, 542	Sept. 7, 1875	143	44	8	426
Engraving-machine	W. S. Wight	159, 488	Feb. 2, 1875	243	76	7	217
Envelope	A. N. Lewis	164, 847	June 22, 1875	957	310	7	1087
Envelope	E. J. Nolin	171, 306	Dec. 21, 1875	644	211	8	1051
Envelope and letter-sheet combined	A. Petersohn	160, 708	Mar. 9, 1875	417	178	7	417
Envelope-cutting machine	J. F. Ellis	161, 604	Apr. 6, 1875	14	6	7	570
Envelope, Document	J. Pritchard	165, 865	July 20, 1875	726	221	8	132
Envelope-machine	W. Liddell	161, 133	Mar. 23, 1875	830	271	7	488
Envelope-opener	J. La Blanc and X. St. Pierre	161, 128	Mar. 23, 1875	825	270	7	457
Envelope-opener	J. La Blanc and X. St. Pierre	170, 276	Nov. 23, 1875	953	298	8	883
Equalizer, Horse-power	A. A. Sheets	164, 224	June 8, 1875	357	123	7	990
Equalizer, Spring	T. L. Guest	159, 572	Feb. 9, 1875	323	106	7	236
Equalizer, Spring	J. W. Marks	157, 956	Jan. 19, 1875	583	194	7	119
Equalizer, Spring	W. Smith	170, 691	Dec. 7, 1875	35	10	8	955
Equalizer, Spring-power	J. W. H. Doubler	168, 729	Oct. 11, 1875	395	130	8	629
Equalizer, Vehicle-spring	A. S. Hopson	162, 655	Apr. 27, 1875	1001	321	7	727

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Equalizer, Vehicle-spring.	N. Jackson	160, 678	Mar. 9, 1875	386	{ 130 131	{ 7	413
Eraser-holder.	W. H. Bennett	165, 531	July 13, 1875	396	119	8	71
Eraser, India-rubber.	R. Lockwood	167, 455	Sept. 7, 1875	67	20	8	416
Eseritoire	A. Batchelder	162, 601	Apr. 27, 1875	955	307	7	721
Ethylene, Package for.	J. P. Moore	168, 340	Oct. 5, 1875	20	8	8	567
Evaporating apparatus	F. Random	161, 353	Mar. 30, 1875	1051	{ 342 343	{ 7	525
Evaporating-pan	C. Brownell	163, 450	May 18, 1875	691	231	7	861
Evaporating-pan	J. F. Ferguson	159, 661	Feb. 9, 1875	396	132	7	247
Evaporating-pan	P. E. Fox	165, 223	July 6, 1875	76	22	8	19
Evaporating-pan	A. W. J. Mason	170, 484	Nov. 30, 1875	1158	365	8	919
Evaporating-pan	J. M. Trumbo	166, 656	Aug. 10, 1875	446	138	8	270
Evaporator:							
See Centrifugal evaporator. Saccharine-liquid evaporator.							
Evaporator	G. F. J. Colburn	170, 990	Dec. 14, 1875	322	106	8	1000
Excavating apparatus	C. G. Force, jr.	164, 643	June 22, 1875	770	253	7	1062
Excavations, Extensible brace for	W. T. Dunn and J. P. Silliman	168, 085	Sept. 28, 1875	679	215	8	526
Excavator	T. Z. Cole	166, 852	Aug. 17, 1875	647	201	8	308
Excavator	J. W. Gounce	164, 829	June 22, 1875	941	304	7	1084
Excavator	A. Goodyear	161, 221	Mar. 23, 1875	909	{ 297 298	{ 7	499
Excavator	M. E. Lasher	161, 524	Mar. 30, 1875	1219	392	7	546
Excavator	M. Phillips	161, 270	Mar. 23, 1875	960	313	7	505
Excavator	J. S. and W. C. Whitescarver	163, 124	May 11, 1875	375	122	7	804
Excavator, Locomotive earth	A. Hawley	171, 564	Dec. 28, 1875	898	293	8	1094
Excelsior-making machine	J. G. More	158, 647	Jan. 12, 1875	278	93	7	63
Excelsior-making machine	L. H. Whitney	169, 607	Nov. 2, 1875	268	87	8	770
Exercising apparatus	W. A. Knight	163, 081	May 11, 1875	338	110	7	799
Exercising apparatus	J. B. Newbrough	169, 467	Nov. 2, 1875	132	42	8	753
Exercising apparatus	G. W. Wood	163, 957	June 1, 1875	98	33	7	944
Exercising-machine	A. M. Allen	160, 863	Mar. 16, 1875	576	187	7	445
Exercising-machine	J. Tiebout	167, 137	Aug. 24, 1875	933	291	8	356
Exercising-machine or health-lift	J. P. Marsh	164, 574	June 15, 1875	696	226	7	1044
Exhaust for locomotive and other engines, Variable	E. A. Hill	158, 710	Jan. 12, 1875	333	113	7	71
Exhaust-mechanism	G. Bonker	165, 437	July 13, 1875	307	91	8	57
Exhaust-mechanism	C. D. Smith	167, 131	Aug. 24, 1875	926	289	8	356
Exhaust-mechanism, Locomotive	W. Stamp	165, 130	June 29, 1875	1225	394	7	1130
Exhaust-nozzle	T. Shaw	166, 562	Aug. 10, 1875	365	112	8	259
Exhaust-nozzle	H. White and M. Levy	166, 910	Aug. 17, 1875	701	218	8	315
Exhaust-pipe, Locomotive	J. C. Farmer	167, 883	Sept. 21, 1875	478	151	8	489
Exhaust, Variable	W. F. Leseur and C. Michel	163, 934	June 1, 1875	80	27	7	942
Expanding-bit for horses	J. Smith, jr.	167, 130	Aug. 24, 1875	926	288	8	355
Expansive bit	F. Willig	164, 953	June 29, 1875	1076	346	7	1109
Expansive tool for cutting holes	C. Crammer	170, 527	Nov. 30, 1875	1196	377	8	925
Expansion-drill	M. C. Bullock	165, 787	July 20, 1875	643	{ 197 198	{ 8	121
Explosive-cap protector	F. A. Canfield	168, 225	Sept. 28, 1875	807	256	8	543
Explosive compound	P. Castellanos	164, 263	June 8, 1875	401	.....	7	996
Explosive compound	P. Castellanos	164, 264	June 8, 1875	402	.....	7	996
Explosive compound	H. J. Detwiller	170, 066	Nov. 16, 1875	736	.....	8	846
Extension-table	G. Ahrens	160, 562	Mar. 9, 1875	289	98	7	399
Extension-table	J. W. Bent	166, 679	Aug. 17, 1875	489	149	8	235
Extension-table	A. S. Bowen	160, 149	Feb. 23, 1875	876	289	7	325
Extension-table	A. Dubroy and J. P. Wagner	164, 079	June 8, 1875	235	81	7	974
Extension-table	F. Goldbach	167, 331	Aug. 31, 1875	1124	353	8	390
Extension-table	E. Hantsche and A. Wagner	168, 154	Sept. 28, 1875	749	237	8	535
Extension-table	G. Heyl	170, 369	Nov. 23, 1875	1030	323	8	894
Extension-table	A. D. and S. L. Jones	169, 997	Nov. 16, 1875	671	210	8	837
Extension-table	J. F. Martin	165, 107	June 29, 1875	1207	388	7	1127
Extension-table	W. Maus	164, 383	June 15, 1875	529	174	7	1022
Extension-table	N. Petry	162, 855	May 4, 1875	109	35	7	761
Extension-table	N. Petry	164, 207	June 8, 1875	346	118	7	989
Extension-table	J. Poolman	164, 479	June 15, 1875	618	200	7	1032
Extension-table	T. White	164, 064	June 1, 1875	197	71	7	957
Extension-table, Folding	J. F. Birchard	160, 506	Mar. 9, 1875	239	82	7	391
Extension-table, Folding	A. W. Fay	161, 497	Mar. 30, 1875	1197	384	7	543
Extension-table slide	W. J. Boda	162, 890	May 4, 1875	139	45	7	765
Extension-table slide	J. O. Frost	162, 049	Apr. 13, 1875	409	137	7	637
Extension-table slide	W. S. Holland and J. W. Parker	166, 204	Aug. 3, 1875	20	7	8	202
Extension-table slide	G. B. Lyman	163, 792	May 25, 1875	1011	321	7	910
Extension-table slide	G. H. Maxwell and J. B. Peaster	167, 404	Sept. 7, 1875	23	7	8	410
Extension-table slide	D. C. Sivey	163, 063	Feb. 23, 1875	807	265	7	315
Extension-table slide	J. C. Turner	162, 975	May 4, 1875	225	72	7	776
Extension-table slide	A. Weaver	165, 459	July 13, 1875	330	97	8	61
Extension-table slide	L. N. Willard	165, 462	July 13, 1875	500	153	8	86
Extractor:							
See Centrifugal honey-extractor.							
Spike and nail extractor.							
Stump-extractor.							
Nail-extractor.							
Tack-extractor.							
Eyeglass-frame	M. C. Bracket	161, 658	Apr. 6, 1875	60	22	7	577
Eyeglass, Watchmaker's	M. W. Wiard	165, 904	July 20, 1875	761	232	8	137
Eyeglasses	J. T. L. Anderson	168, 122	Sept. 28, 1875	719	226	8	530
Eyeglasses	J. J. Bausch	165, 199	July 6, 1875	57	16	8	16
Eyeglasses	S. D. Burbank	162, 025	Apr. 13, 1875	386	130	7	634
Eyeglasses	S. D. Burbank	162, 026	Apr. 13, 1875	386	130	7	634
Eyeglasses	I. Kahn	165, 589	July 13, 1875	446	135	8	78
Eyeglasses	C. C. Parker	166, 220	Aug. 3, 1875	33	11	8	204
Eyeglasses	W. H. Peckham	165, 251	July 6, 1875	100	30	8	22
Eyeglasses	E. Want	169, 868	Nov. 9, 1875	551	172	8	813
Eyelid-machine	J. J. Allred	169, 398	Nov. 2, 1875	74	22	8	744
Eyelid-machine	J. Coombe	159, 904	Feb. 16, 1875	642	212	7	285

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F.							
Fabric:							
See Carpet-fabric.	Imitation fabric.						
Compound fabric.	Knit fabric.						
Coverlet-fabric.	Napped fabric.						
Elastic fabric.	Quilted fabric.						
Felt-fabric.	Rubber-coated fabric.						
Fluted fabric.							
Fabric-coating machine	L. L. Allen	162,332	Apr. 20, 1875	684	223	7	678
Fabric tentering and straightening machine	I. E. Palmer	161,896	Apr. 13, 1875	281	95	7	620
Fabric-tentering machine	W. H. Palmer, jr.	164,026	June 1, 1875	157	56	7	952
Fabrics, Mechanism for drying sized	W. H. Palmer, jr.	163,801	May 25, 1875	1021	323	7	912
Fan	E. Schmidt	159,224	Jan. 26, 1875	851	278	7	163
Fan, Automatic	A. F. Cloudman	170,989	Dec. 14, 1875	321	106	8	1000
Fan, Automatic	J. Gilliford and J. M. Hoffman	161,776	Apr. 6, 1875	159	55	7	592
Fan, Automatic	W. W. Huuting	162,558	Apr. 27, 1875	920	295	7	716
Fan, Automatic	B. Lingane	170,863	Dec. 7, 1875	184	62	8	975
Fan, Automatic	L. D. Stamps	162,320	Apr. 20, 1875	673	220	7	677
Fan, Automatic fly	A. B. Palmer and A. E. Elmer	162,944	May 4, 1875	192	63	7	772
Fan, Electro-magnetic	G. F. Green	171,122	Dec. 14, 1875	446	146	8	1017
Fan, Helical-cone suction	J. White	163,710	May 25, 1875	942	299	7	901
Fan-leaf-cutting machine	P. Hufeland	164,838	June 22, 1875	948	307 308	7	1086
Fan, Paper	C. C. E. Schwartz	163,266	May 11, 1875	509	165	7	821
Fan-stick-cutting machine	J. W. White	166,571	Aug. 10, 1875	372	104	8	260
Fan, Table	C. Good	161,777	Apr. 6, 1875	160	55	7	592
Fans, Apparatus for mounting	G. Brueck	163,731	May 25, 1875	962	304	7	913
Fans, Manufacture of	P. Hufeland	164,839	June 22, 1875	950	308	7	1086
Fanning apparatus, Room	P. J. Bender	163,628	May 25, 1875	878	276	7	892
Fanning-mill	A. Y. Felton	159,569	Feb. 9, 1875	320	105	7	236
Fare-box	A. J. Cortis	168,619	Oct. 11, 1875	300	97, 98	8	614
Fare-box	W. J. Cowing	168,722	Oct. 11, 1875	390	128	8	628
Fare-box	S. W. Francis	166,598	Aug. 10, 1875	397	122	8	263
Fare-box	G. J. Hill	165,579	July 13, 1875	437	132	8	77
Fare-box	A. E. Hovey	164,685	June 22, 1875	806	264	7	1067
Fare-box	C. G. Inlay	160,676	Mar. 9, 1875	384	130	7	413
Fare-box	T. Keech	158,846	Jan. 19, 1875	476	166	7	106
Fare-box	W. C. McGill	166,794	Aug. 17, 1875	592	182	8	300
Fare-box	R. M. Robinson	158,981	Jan. 19, 1875	605	201	7	122
Fare-box	R. M. Robinson	158,982	Jan. 19, 1875	608	201	7	122
Fare-box	R. M. Robinson	162,420	Apr. 20, 1875	775	252	7	689
Fare-box, Recording and signal	E. H. Schnell	170,022	Nov. 16, 1875	693	218	8	840
Fare-register	D. Eldridge	166,864	Aug. 17, 1875	657	204	8	309
Fare-register	W. H. Hornum	165,829	July 20, 1875	691	211	8	127
Fare-register	W. H. Hornum	165,832	July 20, 1875	694	212	8	128
Fare-register	W. H. Hornum	171,133	Dec. 14, 1875	456	149	8	1018
Fare-register	A. F. Johnson	167,670	Sept. 14, 1875	263	84	8	451
Fare-register	W. Miller	167,682	Sept. 14, 1875	278	88	8	452
Fare-register	J. A. Runnig and C. J. Uderitz	163,695	May 25, 1875	928	295	7	899
Fare-register	J. Sangster	167,623	Sept. 14, 1875	228	71	8	445
Fare-register	W. S. Watson and A. Knowlton	170,318	Nov. 23, 1875	928	310	8	888
Fare-register, Alarm	T. D. Doolittle	163,164	May 11, 1875	416	135	7	809
Fare-registering device	J. A. Brown	158,568	Jan. 12, 1875	206	70	7	53
Farm-box	M. M. Murray	160,942	Mar. 16, 1875	645	210	7	454
Farm-gate	A. Callahan	165,709	July 20, 1875	570	175	8	111
Farm-gate	L. S. Cohn	161,756	Apr. 6, 1875	143	50	7	589
Farm-gate	S. S. Davis	159,648	Feb. 9, 1875	379	126	7	245
Farm-gate	J. Golden	164,292	June 8, 1875	429	143	7	999
Farm-gate	M. Gunshenan	162,059	Apr. 13, 1875	419	140	7	638
Farm-gate	W. J. Hollis	171,478	Dec. 28, 1875	816	268	8	1082
Farm-gate	S. R. Holt	161,337	Mar. 30, 1875	1037	337	7	523
Farm-gate	R. Miller and J. D. Hillson	165,748	July 20, 1875	604	186	8	116
Farm-gate	H. S. Moyers	170,489	Nov. 30, 1875	1162	366	8	920
Farm-gate	L. W. Noyes	161,817	Apr. 6, 1875	197	66	7	597
Farm-gate	W. H. Pratt	163,693	May 25, 1875	926	295	7	899
Farm-gate	G. O. Ross	162,421	Apr. 20, 1875	776	252	7	689
Farm-gate	T. Snider	164,605	June 15, 1875	722	235	7	1048
Farm-gate	W. Waggonner	165,191	July 6, 1875	51	14	8	16
Farm-gate	J. N. Wilson	162,448	Apr. 20, 1875	801	261	7	692
Farrier's tool	M. Baltes	167,632	Sept. 14, 1875	238	74	8	446
Fats, Process of separating	C. M. Cresson	164,907	June 29, 1875	1034	333	7	1104
Fats, Purifying and preserving animal	J. P. Kinney	169,008	Oct. 19, 1875	661		8	674
Fats, &c., Separating the various constituents of	T. M. Fell	167,607	Sept. 14, 1875	215	67	8	443
Fatty matter from tanners' scrap, &c., Extracting	W. Adamson	163,130	May 11, 1875	382		7	805
Faucet	E. W. Barnes	166,581	Aug. 10, 1875	379	117	8	261
Faucet	J. G. L. Boettcher	162,608	Apr. 27, 1875	961	309	7	721
Faucet	W. L. Brownell	170,704	Dec. 7, 1875	47	14	8	957
Faucet	W. C. Bussey	158,829	Jan. 19, 1875	462	155	7	104
Faucet	L. Chaize	164,805	June 22, 1875	918	298	7	1082
Faucet	S. A. Duman	163,367	May 18, 1875	622	199	7	852
Faucet	E. M. Fasoldt	166,197	Aug. 3, 1875	13	5	8	201
Faucet	A. Fuller	167,092	Aug. 24, 1875	894	278	8	351
Faucet	H. Gnosill	164,545	June 15, 1875	671	217	7	1040
Faucet	D. W. Goodell	169,988	Nov. 16, 1875	664	208	8	836
Faucet	R. L. Hallett	164,448	June 15, 1875	592	192	7	1019
Faucet	J. M. Hopkins	168,997	Oct. 19, 1875	651	214	8	672
Faucet	H. B. Leach	158,593	Jan. 12, 1875	231	77	7	56
Faucet	I. Lobree	166,211	Aug. 3, 1875	25	9	8	202
Faucet	F. Messmer	160,275	Mar. 2, 1875	18	7	7	351
Faucet	T. Newman and W. H. Kueal	165,944	July 27, 1875	814	250	8	156
Faucet	W. C. North	169,284	Oct. 26, 1875	936	304	8	719
Faucet	A. Pfund	159,960	Feb. 16, 1875	691	230	7	292
Faucet	P. Schofield	163,263	May 11, 1875	506	164	7	820
Faucet	J. D. Seagrave	160,354	Mar. 2, 1875	87	32	7	361

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Faucet	D. C. Stillson	166, 482	Aug. 10, 1875	300	90	8	249
Faucet	T. Tully	159, 981	Feb. 16, 1875	710	236	7	294
Faucet	E. Wilson	166, 833	Aug. 17, 1875	626	195	8	306
Faucet, Air-pump	T. Bingham	162, 888	May 4, 1875	137	45	7	765
Faucet-attaching device	J. S. Morton	168, 171	Sept. 22, 1875	764	242	8	537
Faucet attachment for barrels	A. Zoller	163, 717	May 25, 1875	948	301	7	902
Faucet, Basin	W. C. Bussey	166, 339	Aug. 3, 1875	140	43	8	219
Faucet, Basin	J. Downing	167, 880	Sept. 21, 1875	475	150	8	489
Faucet, Basin	J. Farrell	163, 005	May 11, 1875	267	87	7	790
Faucet, Basin	J. F. Sheridan	165, 621	July 13, 1875	481	146	8	83
Faucet, Beer	J. G. Adam	167, 049	Aug. 24, 1875	848	264	8	345
Faucet, Beer	A. L. Bobet	168, 132	Sept. 28, 1875	728	229	8	532
Faucet, Beer	W. B. Miller and W. Powell	161, 427	Mar. 30, 1875	1125	363	7	533
Faucet, Beer	M. J. Sullivan	160, 242	Feb. 23, 1875	956	314	7	336
Faucet, Bottling	A. C. Meyer	160, 936	Mar. 16, 1875	639	208	7	454
Faucet, Filtering	G. W. Wilson	159, 008	Jan. 19, 1875	632	209	7	125
Faucet for effervescent liquids	C. Greiner	160, 589	Mar. 9, 1875	311	105	7	402
Faucet-holes in glass bottles, &c., Implement for molding and perforating	J. N. Fort	168, 149	Sept. 28, 1875	745	235	8	535
Faucet, Measuring	L. L. Dennick	160, 085	Feb. 23, 1875	824	271	7	317
Faucet, Oil-can	G. W. Banker	163, 293	May 18, 1875	552	177	7	843
Faucet, Self-closing	P. W. Doherty	161, 768	Apr. 6, 1875	153	53	7	591
Faucet, Self-closing	D. C. Stillson	166, 483	Aug. 10, 1875	301	90	8	249
Faucet, Self-closing	J. W. Trafton	159, 478	Feb. 2, 1875	225	73	7	215
Faucet, Vent	R. Brenner	167, 821	Sept. 21, 1875	421	134	8	481
Faucet, Vent	C. Deblinger	169, 782	Nov. 9, 1875	465	147	8	803
Faucet, Vent	C. H. Rauert	166, 554	Aug. 10, 1875	356	110	8	257
Faucet, Ventilating	W. C. North	161, 630	Apr. 6, 1875	36	14	7	574
Faucets, Adjusting plumbers'	J. H. Lawless	169, 645	Nov. 9, 1875	325	103	8	785
Feather duster	J. L. Little	169, 276	Oct. 26, 1875	929	301	8	718
Feather-renovator	A. W. Ballard and D. B. Wirt	171, 544	Dec. 28, 1875	878	287	8	1091
Feather-renovator	H. I. Sinn	168, 571	Oct. 11, 1875	256	84	8	608
Feather-renovator	H. P. Manley	162, 933	May 4, 1875	181	60	7	771
Feather-renovator	H. E. Rowe	163, 889	June 1, 1875	45	15	7	936
Feather-renovator	C. Russell and C. W. Seamans	159, 222	Jan. 26, 1875	849	278	7	163
Feather-renovator	U. B. Waddle	163, 283	May 11, 1875	526	170	7	823
Feed-bag, Horse	H. Engelbert	160, 659	Mar. 9, 1875	372	125	7	411
Feed-bag, Horse	A. Nye, jr.	169, 726	Nov. 9, 1875	407	129	8	796
Feed-boiler	S. Olmstead	169, 469	Nov. 2, 1875	134	43	8	753
Feed box and rack, Combined	D. R. Ostrander	162, 943	May 4, 1875	192	63	7	772
Feed-cooker	J. S. Brubaker	170, 050	Nov. 16, 1875	718	228	8	844
Feed-cooker	B. Fisher and W. Wickkiser	167, 516	Sept. 7, 1875	121	37	8	423
Feed-cutter	J. B. and J. W. B. Nye	163, 396	May 18, 1875	646	207	7	855
Feed-cutter	J. A. Sewerdt	161, 448	Mar. 30, 1875	1141	368	7	536
Feed-cutter	A. C. Stewart	165, 963	July 27, 1875	830	255	8	158
Feed-cutter	E. Wagoner	165, 138	June 29, 1875	1234	397	7	1130
Feed-cutter	T. Webb	165, 043	June 29, 1875	1149	371	7	1119
Feed-cutter	B. A. Wilton	169, 937	Nov. 16, 1875	624	193	8	831
Feed-cutter	R. J. Wylie	169, 221	Oct. 26, 1875	878	285	8	712
Feed-cutter changeable feed-gear	R. Seelig	164, 222	June 8, 1875	356	122	7	990
Feed-cutting machine	L. Evans	166, 196	Aug. 3, 1875	13	5	8	201
Feed-cutting machine	W. J. Jones	160, 330	Mar. 2, 1875	66	24	7	358
Feed-cutting-machine spike	G. W. Lee	162, 079	Apr. 13, 1875	435	145	7	640
Feed-mill	O. B. Knapp	163, 664	May 25, 1875	905	287	7	896
Feed-rack	A. V. Mitchell	159, 601	Feb. 9, 1875	344	114	7	240
Feed-rack	M. Ralph	166, 719	Aug. 17, 1875	528	161	8	290
Feed-regulator	F. M. Ford and J. F. Hicks	160, 982	Nov. 16, 1875	660	206	8	836
Feed-regulator	J. M. Ross	161, 553	Mar. 30, 1875	1244	400	7	550
Feed regulator, Boiler	J. F. Stratton	166, 945	Aug. 24, 1875	749	232	8	331
Feed-water apparatus	B. W. Felthousen	171, 605	Dec. 28, 1875	933	306	8	1099
Feed-water apparatus, Steam-boiler	W. H. Jenkins	168, 398	Oct. 5, 1875	70	25	8	575
Feed-water heater	E. B. Bennett	161, 587	Apr. 6, 1875	2	1	7	569
Feed-water heater	J. R. Brown and W. A. Foskett	158, 398	Jan. 5, 1875	41	15	7	15
Feed-water heater	N. W. Kirby	170, 743	Dec. 7, 1875	81	26	8	961
Feed-water heater	H. S. Maxium	160, 215	Feb. 23, 1875	933	306	7	333
Feed-water heater	G. L. McCaban	168, 760	Oct. 11, 1875	425	139	8	633
Feed-water heater	A. Orme and W. H. Burk	163, 100	May 11, 1875	357	116	7	801
Feed-water heater	R. Wetherill	159, 728	Feb. 9, 1875	457	153	7	256
Feed-water heater and filter	E. P. Fenn	158, 411	Jan. 5, 1875	53	18	7	16
Feed-water heater and filter	G. F. Jasper	164, 176	June 8, 1875	320	109	7	985
Feed-water heater, Locomotive	W. Halstead	170, 729	Dec. 7, 1875	69	21	8	960
Feed-water heater, Steam-boiler	J. Armstrong	164, 959	June 29, 1875	1080	348	7	1109
Feed-water heater, Steam-boiler	W. J. Austin	169, 332	Nov. 2, 1875	6	2	8	735
Feed-water heater, Steam-boiler	S. W. France	164, 826	June 22, 1875	939	303	7	1084
Feed-water heater, Steam-boiler	H. N. Waters	160, 979	Mar. 16, 1875	677	222	7	459
Feed-water heater, Steam-generator	W. Andrus and S. J. Wallace	169, 074	Oct. 26, 1875	743	243	8	693
Feed-water-heating apparatus	D. F. Mosman	162, 940	May 4, 1875	188	62	7	772
Feed-water regulator	C. M. Bridges	167, 639	Sept. 14, 1875	243	75	8	447
Feed-water regulator	I. Dreyfus	166, 081	July 27, 1875	941	291	8	174
Feed-water regulator	G. Henry	164, 559	June 15, 1875	684	222	7	1042
Feed-water regulator	G. Henry	165, 928	July 27, 1875	799	245	8	155
Feed-water regulator, Automatic	J. Wertheim	165, 283	July 6, 1875	126	38	8	26
Feeding fowls, Apparatus for	A. De Garis	159, 649	Feb. 9, 1875	380	126	7	245
Feeding support, Portable horse	A. H. Spencer	159, 617	Feb. 9, 1875	356	118	7	242
Felly and tire clip	R. Ray	167, 938	Sept. 21, 1875	518	165	8	496
Felly-joint clip	D. T. Bowerman	171, 547	Dec. 28, 1875	881	288	8	1091
Felly-joint plate	J. Ives	163, 495	May 18, 1875	740	235	7	867
Felly-plate	T. Beatty	165, 656	July 20, 1875	526	161	8	105
Felly-plate	J. Y. Sittin	163, 698	May 25, 1875	931	296	7	900
Felly-sawing machine	T. M. Kenney and E. L. Willard	170, 956	Dec. 14, 1875	286	96	8	996
Felt fabric	H. J. and W. D. Davies	167, 310	Aug. 31, 1875	1105	348	8	388
Felt, Manufacture of vegetable	P. Sweeney and A. Beach, jr.	159, 051	Jan. 26, 1875	695		7	141

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Felting-machine.....	N. B. Hooper and T. S. Crane.....	166,699	Aug. 17, 1875	506	155	8	287
Fence.....	H. and B. F. Bean.....	166,330	Aug. 3, 1875	132	41	8	218
Fence.....	H. B. Cluxton.....	170,055	Nov. 16, 1875	723	230	8	845
Fence.....	W. A. Couch.....	170,714	Dec. 7, 1875	56	17	8	958
Fence.....	J. Dwyer.....	170,830	Dec. 7, 1875	157	52	8	971
Fence.....	T. Harding.....	170,850	Dec. 7, 1875	173	59	8	974
Fence.....	J. D. and F. Hyberger.....	170,269	Nov. 23, 1875	947	296	8	882
Fence barb, Wire.....	W. L. Brown and L. G. Tubbs.....	170,518	Nov. 30, 1875	1188	375	8	924
Fence barb, Wire.....	L. M. Devore.....	168,886	Oct. 19, 1875	546	179	8	658
Fence barb, Wire.....	J. F. Duffy and N. Schroeder.....	165,220	July 6, 1875	73	21	8	19
Fence barb, Wire.....	H. N. Frentress.....	171,008	Dec. 14, 1875	337	112	8	1002
Fence barb, Wire.....	J. Haish.....	167,240	Aug. 31, 1875	1047	325	8	379
Fence, Barbed stock.....	F. T. Wilson.....	158,451	Jan. 5, 1875	85	29	7	21
Fence, Barbed-wire.....	J. Dobbs and B. F. Booth.....	171,104	Dec. 14, 1875	423	141	8	1014
Fence, Barbed-wire.....	C. Kennedy.....	164,181	June 8, 1875	324	110	7	986
Fence, Barbed-wire.....	W. Watkins and H. B. Scutt.....	163,955	June 1, 1875	97	33	7	944
Fence, Barbed-wire.....	A. V. Wormley.....	169,393	Nov. 2, 1875	68	20	8	744
Fence, Farm.....	W. E. Cary.....	163,848	June 1, 1875	12	4	7	932
Fence, Farm.....	W. A. Eliason.....	164,279	June 8, 1875	417	139	7	998
Fence, Farm.....	D. L. Hoffman and P. M. Shoe- mate.....	163,658	May 25, 1875	900	286	7	896
Fence, Farm.....	L. E. Hogue.....	158,941	Jan. 19, 1875	567	188	7	117
Fence, Farm.....	I. L. Landis.....	159,188	Jan. 26, 1875	818	269	7	158
Fence, Farm.....	A. Miller.....	167,007	Aug. 24, 1875	814	252	8	340
Fence, Farm.....	J. P. Monnett.....	169,023	Oct. 19, 1875	675	222	8	676
Fence, Farm.....	A. N. Moore.....	161,261	Mar. 23, 1875	952	310	7	504
Fence, Farm.....	D. R. Ostrander.....	162,850	May 4, 1875	104	34	7	761
Fence, Farm.....	T. W. Owens.....	162,411	Apr. 20, 1875	768	249	7	688
Fence, Farm.....	A. Rush and F. Yarbrough.....	166,149	July 27, 1875	1011	311	8	184
Fence, Farm.....	D. Sattler.....	159,459	Feb. 2, 1875	200	66	7	212
Fence, Farm.....	S. Stout.....	163,116	May 11, 1875	370	120	7	803
Fence, Farm.....	L. M. Wheelock.....	164,788	June 22, 1875	899	292	7	1080
Fence, Farm.....	J. E. Winters.....	167,966	Sept. 21, 1875	539	173	8	499
Fence, Flood.....	E. C. Huffaker.....	171,567	Dec. 28, 1875	900	294	8	1095
Fence, Iron.....	M. G. Freeman.....	163,761	May 25, 1875	985	312	7	907
Fence, Iron.....	D. C. Guttridge.....	169,989	Nov. 16, 1875	665	208	8	836
Fence, Iron.....	P. Haffa.....	164,830	June 22, 1875	942	304	7	1035
Fence, Iron.....	F. O. Hanson.....	171,377	Dec. 21, 1875	705	232	8	1050
Fence, Iron.....	T. J. W. Robertson.....	168,785	Oct. 11, 1875	448	146	8	636
Fence, Iron.....	R. Rogers.....	170,302	Nov. 23, 1875	977	305	8	886
Fence, Iron-clad.....	J. A. Bowyer.....	162,612	Apr. 27, 1875	964	310	7	722
Fence-pickets, Machine for making.....	H. and P. C. Dufour and E. B. Rowe.....	164,276	June 8, 1875	414	139	7	997
Fence, Portable.....	D. C. Baxter.....	164,512	June 15, 1875	645	208	7	1076
Fence, Portable.....	M. Burtless.....	165,439	July 13, 1875	310	91	8	58
Fence, Portable.....	T. L. Davidson.....	166,687	Aug. 17, 1875	496	151	8	2-6
Fence, Portable.....	J. W. Johnson.....	158,589	Jan. 12, 1875	228	76	7	56
Fence, Portable.....	T. McQuary.....	159,952	Feb. 16, 1875	624	226	7	291
Fence, Portable.....	S. Olmstead.....	164,474	June 15, 1875	613	198	7	1032
Fence, Portable.....	I. W. Pancoast.....	171,311	Dec. 21, 1875	647	212	8	1051
Fence, Portable.....	H. Prickett.....	160,711	Mar. 9, 1875	418	139	7	417
Fence, Portable.....	H. Tell.....	171,329	Dec. 21, 1875	661	217	8	1053
Fence, Portable.....	C. Van De Mark.....	164,347	June 8, 1875	483	159	7	1006
Fence, Portable.....	J. L. Welshans.....	164,500	June 15, 1875	635	205	7	1035
Fence-post.....	M. W. Colwell.....	162,800	May 4, 1875	61	20	7	755
Fence-post.....	E. Geer.....	165,557	July 13, 1875	418	126	8	74
Fence-post.....	G. W. Hatch.....	167,529	Sept. 7, 1875	134	40	8	425
Fence-post.....	J. W. Latcher and T. J. Smith.....	168,097	Sept. 28, 1875	693	218	8	527
Fence-post.....	A. Y. McDonald.....	167,125	Aug. 31, 1875	1000	311	8	373
Fence-post.....	E. Powell.....	163,692	May 25, 1875	926	294	7	899
Fence-post.....	I. L. Sherman.....	171,181	Dec. 14, 1875	498	165	8	1024
Fence-post.....	J. E. Warren.....	163,954	June 1, 1875	96	33	7	944
Fence-post support.....	H. McKenzie.....	169,502	Nov. 2, 1875	222	73	8	765
Fence tightener, Wire.....	H. P. Barnes.....	167,052	Aug. 24, 1875	850	265	8	345
Fence-wire.....	R. Ellwood.....	163,169	May 11, 1875	421	136	7	809
Fence, Wire.....	J. Haish.....	164,552	June 15, 1875	679	220	7	1041
Fence, Wire.....	J. A. Little.....	159,691	Feb. 9, 1875	425	142	7	251
Fence, Wire.....	J. M. McClellan.....	169,365	Nov. 2, 1875	45	13	8	741
Fence, Wire.....	L. and J. C. Merrill.....	164,576	June 15, 1875	698	227	7	1044
Fence, Wire.....	T. S. Seabury.....	170,024	Nov. 16, 1875	694	219	8	841
Fence, Wire.....	D. C. Stover.....	164,947	June 29, 1875	1071	345	7	1108
Fence-wire, Barbed.....	F. Armstrong.....	171,208	Dec. 21, 1875	554	181	8	1039
Fence-wire, Barbed.....	F. Armstrong and G. Doolittle.....	168,550	Oct. 11, 1875	233	77	8	605
Fence-wire, Barbed.....	J. Dobbs and B. F. Booth.....	171,108	Dec. 14, 1875	424	141	8	1014
Fence-wire, Barbed.....	M. M. Mack.....	162,835	May 4, 1875	90	30	7	759
Fence-wire, Barbed.....	J. E. Page.....	170,891	Dec. 7, 1875	207	72	8	978
Fence-wire, Implement for stretching.....	J. F. Duffy.....	164,910	June 29, 1875	1037	334	7	1104
Fence-wire stretcher.....	W. L. Brown and J. B. Cramer.....	165,536	July 13, 1875	401	120	8	71
Fence-wire stretcher.....	N. Burnham.....	169,770	Nov. 9, 1875	455	144	8	802
Fences, Device for making tabs for wire.....	T. B. Doolittle and J. M. Ellis.....	165,661	July 20, 1875	420	162	8	106
Fences, Nail for wire.....	H. S. Smythe.....	171,181	Dec. 14, 1875	500	165	8	1024
Fences, Tool for putting barbs on wire.....	W. Dulin.....	170,354	Nov. 23, 1875	1020	320	8	892
Fender: See Carriage-wheel fender. Vehicle-fender. Fire-place fender. Vessel-fender.							
Fender.....	D. W. Hoyt.....	168,999	Oct. 19, 1875	652	215	8	673
Fender, &c., foot.....	F. S. Bissell.....	161,470	Mar. 30, 1875	1163	374	7	539
Ferns, &c., Preserving.....	H. M. Lee.....	166,995	Aug. 24, 1875	802	.....	8	338
Ferrule-condenser.....	T. H. Savery.....	161,707	Apr. 6, 1875	98	35	7	583
Ferrule, Tool-handle.....	E. C. Denio.....	161,598	Apr. 6, 1875	10	4	7	570
Fertilizer.....	O. Lugo.....	165,345	July 6, 1875	185	.....	8	34
Fertilizer.....	C. H. North.....	165,172	July 6, 1875	30		8	12
Fertilizer.....	S. Seitz.....	161,827	Apr. 6, 1875	209		7	599

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Fertilizer crusher and distributor.	W. M. Dye	164,435	June 15, 1875	581	188	7	1028
Fertilizer-distributor	C. Bailey	164,509	June 15, 1875	642	208	7	1036
Fertilizer-distributor	W. H. Cook	169,523	Nov. 2, 1875	180	60	8	759
Fertilizer-distributor	W. F. Wheeler	165,773	July 20, 1875	628	193	8	120
Fertilizer-distributor, planter, and cultivator.	B. Scofield	167,274	Aug. 31, 1875	1073	335	8	383
Fertilizer-drier	J. Bowman and A. Chapman	159,147	Jan. 26, 1875	779	255	7	153
Fertilizers, Preparation of.	B. Ackerman	158,772	Jan. 19, 1875	407	137	7	97
Fertilizing compound.	C. H. Hoffman	160,191	Feb. 23, 1875	910		7	330
Field-roller	A. Hiltz	161,512	Mar. 30, 1875	1209	388	7	545
Fifth-wheel	E. Barroclough and T. Pritchard	160,253	Mar. 2, 1875	2	1	7	349
Fifth-wheel	J. Cunningham	169,627	Nov. 9, 1875	302	97	8	783
Fifth-wheel	J. Hodge	164,738	June 22, 1875	857	278	7	1074
Fifth-wheel	W. A. Parker	167,927	Sept. 21, 1875	509	162	8	495
Fifth-wheel	O. B. Thompson	184,611	June 15, 1875	727	237	7	1048
Fifth-wheel	C. B. Wood	164,067	June 1, 1875	199	72	7	958
Fifth-wheel, Carriage	J. Clubb	164,426	June 15, 1875	574	186	7	1027
Fifth-wheel, Carriage	R. W. McClelland	161,348	Mar. 30, 1875	1047	341	7	524
Fifth-wheel, Vehicle	L. Blair	159,492	Feb. 9, 1875	250	81	7	227
Fifth-wheel, Vehicle	P. B. Cunningham	166,854	Aug. 17, 1875	648	202	8	308
Fifth-wheel, Vehicle	G. F. Putnam	159,117	Jan. 26, 1875	754	248	7	150
File	C. F. Carr and S. S. Wilcox	167,495	Sept. 7, 1875	98	31	8	420
File	J. Haptonstall	166,868	Aug. 17, 1875	661	205	8	310
File, Bill	F. B. Alderson	160,501	Mar. 9, 1875	235	81	7	391
File, Bill	D. H. Baker	162,881	May 4, 1875	131	43	7	764
File, Bill	W. R. Clough	159,796	Feb. 16, 1875	543	180	7	272
File, Bill	C. Davis, jr.	163,750	May 25, 1875	977	309	7	906
File, Bill	R. H. Hoffman	160,323	Mar. 2, 1875	61	22	7	357
File, Bill	T. Hutchinson	161,415	Mar. 30, 1875	1115	360	7	532
File, Bill	W. Langhorne	163,216	May 11, 1875	461	149	7	815
File-blank-bending machine, Circular.	L. Beyer and R. Heunsch	164,710	June 22, 1875	833	271	7	1071
File-blank-forging device.	T. L. Grover	162,378	Apr. 20, 1875	736	239	7	684
File-blank holder for grinding	J. Garland	171,277	Dec. 21, 1875	618	202	8	1048
File, Card	M. S. Prentice, J. Behel, and W. A. Talcott.	158,390	Jan. 5, 1875	33	12	7	13
File-cutting machine	S. and S. M. Hamblin	159,756	Feb. 16, 1875	503	168	7	267
File-cutting machines, Feed mechanism for	J. Garland	167,833	Sept. 21, 1875	432	137	8	483
File-holder	H. Baumgartel	167,731	Sept. 14, 1875	322	102	8	459
File, Newspaper	F. B. Alderson	162,876	May 4, 1875	126	42	7	763
File, Newspaper	F. B. Alderson	165,401	July 13, 1875	273	81	8	53
File, Permanent letter.	J. F. Adams	169,665	Nov. 9, 1875	344	109	8	788
File-stripping machine	J. Garland	170,725	Dec. 7, 1875	65	20	8	959
File-tempering apparatus.	W. T. Nicholson	164,656	June 22, 1875	781	256	7	1064
File, &c., testing machine	J. Garland	170,166	Nov. 23, 1875	856	268	8	869
File-wrapper	W. Grimsted and J. A. Darling	161,506	Mar. 30, 1875	1205	387	7	544
Files in tempering baths, Clamp for holding	R. Parker and J. B. Colman	164,204	June 8, 1875	344	117	7	988
Filing postal cards, Device for	P. M. Hitchcock	169,441	Nov. 2, 1875	110	35	8	750
Filter	C. Anderson	161,194	Mar. 23, 1875	879	289	7	494
Filter	J. and A. Outerson	158,514	Jan. 5, 1875	145	48	7	29
Filter	H. F. Scherr	165,512	July 13, 1875	378	112	8	68
Filter	T. R. Sinclair	171,635	Dec. 28, 1875	979	317	8	1105
Filter and funnel, Druggist's	A. E. Garrison	170,167	Nov. 23, 1875	857	268	8	869
Filter and purifier, Water	A. Le Tellier	169,362	Nov. 2, 1875	41	12, 13	8	740
Filter and sprinkler, Combined	J. Batchelor and A. J. Warren	168,825	Oct. 19, 1875	495	161	8	651
Filter and water-separator, Cistern	W. B. Wilson	169,130	Oct. 26, 1875	800	259	8	700
Filter, Coffee	E. R. Shattuck	158,532	Jan. 5, 1875	159	54	7	31
Filter for liquids holding solid impurities.	E. S. Hutchinson	170,952	Dec. 14, 1875	281	95	8	996
Filter-rack	M. Leiner	162,294	Apr. 20, 1875	651	212	7	675
Filter, Reversible	E. C. Houghton	171,020	Dec. 14, 1875	345	115	8	1004
Filter, Submerged	J. W. Lefferts	167,546	Sept. 7, 1875	147	45	8	427
Filter, Water	P. Ball	164,510	June 15, 1875	642	208	7	1036
Filter, Water	I. Brach	164,257	June 8, 1875	395	134	7	995
Filter, Water	C. B. Cooper	163,362	May 18, 1875	617	197	7	851
Filter, Water	E. S. Farson	169,631	Nov. 9, 1875	307	99	8	783
Filters, Packing	T. R. Sinclair	171,439	Dec. 21, 1875	761	251	8	1067
Filtering apparatus for saccharine solutions	W. R. Watson and R. A. Robertson.	165,637	July 13, 1875	495	151	8	85
Filtering apparatus, Liquid	T. R. Sinclair	163,814	May 25, 1875	1031	326	7	913
Filtering apparatus, Liquid	T. R. Sinclair	165,377	July 6, 1875	217	65	8	38
Filtering apparatus, Liquid	T. R. Sinclair	169,857	Nov. 9, 1875	538	168 } 169 }	8	811
Filtering apparatus, Liquid	T. R. Sinclair	171,055	Dec. 14, 1875	377	124	8	1008
Filtering apparatus, Liquid	T. R. Sinclair	171,056	Dec. 14, 1875	379	125 } 126 }	8	1008
Finger-nail trimmer	V. Fogerty	161,112	Mar. 23, 1875	810	266	7	845
Finger-ring boxes, Machine for making cushions for	B. L. Dennison	161,493	Mar. 30, 1875	1192	383	7	543
Fire-alarm box	L. H. McCullough and C. Anderson.	162,085	Apr. 13, 1875	439	146	7	640
Fire-alarm register.	F. H. Field	161,676	Apr. 6, 1875	76	27	7	580
Fire-alarm register.	D. T. Phelps and C. W. Edmonds.	161,544	Mar. 30, 1875	1237	398	7	549
Fire-alarm register.	D. L. Pierce and F. W. Griswold	167,116	Aug. 24, 1875	913	285	8	354
Fire-alarm register.	W. W. Sawyer	164,598	June 15, 1875	715	233	7	1047
Fire-alarm signal-box	S. Chester	164,425	June 15, 1875	571	186	7	1027
Fire-alarm signal-box	W. E. Facer	164,537	June 15, 1875	664	215	7	1039
Fire-alarm signal-box	G. Floyd	159,461	Feb. 2, 1875	143	49	7	204
Fire-alarm signal-box	R. N. Tooker	164,465	June 15, 1875	552	10	7	1024
Fire and burglar alarm, Combined	C. A. Maxfield	170,475	Nov. 30, 1875	1159	365	8	920
Fire and water proof composition	W. S. and F. W. Gray	163,374	May 18, 1875	626		7	852
Fire-arm	M. Sellen	158,988	Jan. 19, 1875	614	204	7	123
Fire-arm and ordnance chamber	T. MacNeil	160,691	Mar. 9, 1875	400	134	7	415
Fire-arm, Breech-loading	W. H. Baker	167,293	Aug. 31, 1875	1091	342	8	386
Fire-arm, Breech-loading	C. E. Billings	169,335	Nov. 2, 1875	11	3	8	736
Fire-arm, Breech-loading	J. Broughton	158,899	Jan. 12, 1875	527	177	7	112
Fire-arm, Breech-loading	H. C. Bull	169,413	Nov. 2, 1875	86	26	8	746
Fire-arm, Breech-loading	A. Burgess	168,829	Oct. 19, 1875	499	162	8	651

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Fire-arm, Breech-loading	E. Burt	160,748	Mar. 16, 1875	472	{ 154 155 }	7	432
Fire-arm, Breech-loading	D. Conner	160,880	Mar. 16, 1875	591	192	7	447
Fire-arm, Breech-loading	W. H. Elliot	163,646	May 25, 1875	891	282	7	894
Fire-arm, Breech-loading	B. Fasoldt	114,642	June 22, 1875	768	252	7	1062
Fire-arm, Breech-loading	F. W. Freund	160,762	Mar. 16, 1875	489	{ 159 160 }	7	433
Fire-arm, Breech-loading	F. W. Freund	162,224	Apr. 20, 1875	586	{ 192 193 }	7	666
Fire-arm, Breech-loading	C. Green	170,669	Dec. 7, 1875	15	5	8	953
Fire-arm, Breech-loading	W. W. Greener	168,328	Oct. 5, 1875	12	4	8	566
Fire-arm, Breech-loading	B. B. Hotchkiss	169,641	Nov. 9, 1875	321	102	8	785
Fire-arm, Breech-loading	C. A. King	160,915	Mar. 16, 1875	618	202	7	451
Fire-arm, Breech-loading	J. Lee	160,919	Mar. 16, 1875	621	203	7	451
Fire-arm, Breech-loading	W. F. Parker	161,267	Mar. 23, 1875	958	312	7	504
Fire-arm, Breech-loading	J. P. Pieri	166,138	July 27, 1875	1000	308	8	183
Fire-arm, Breech-loading	O. M. Robinson	163,810	May 25, 1875	1028	325	7	913
Fire-arm, Breech-loading	O. Schneeloch	165,031	June 29, 1875	1138	367	7	1118
Fire-arm, Breech-loading	W. M. Scott	161,559	Mar. 30, 1875	1249	402	7	550
Fire-arm, Breech-loading	C. E. and C. W. Sneider	171,442	Dec. 21, 1875	764	251	8	1067
Fire-arm, Breech-loading	A. F. W. Timmer	165,892	July 20, 1875	749	229	8	136
Fire-arm, Breech-loading	B. C. Watson	161,307	Mar. 23, 1875	992	325	7	509
Fire-arm, Breech-loading	E. Whitney	160,734	Mar. 9, 1875	440	146	7	420
Fire-arm lock	D. G. Hadley	161,117	Mar. 23, 1875	815	267	7	486
Fire-arm lock	D. Kirkwood and H. Mortimore	169,710	Nov. 9, 1875	391	123	8	794
Fire-arm lock	J. H. Lester	161,343	Mar. 30, 1875	1043	340	7	523
Fire-arm lock	F. Taylor	166,947	Aug. 24, 1875	751	233	8	331
Fire-arm lock	G. E. Williams	170,038	Nov. 16, 1875	705	223	8	842
Fire-arm Magazine	A. Burgess	168,966	Oct. 19, 1875	621	206	8	669
Fire-arm Magazine	A. Burgess	169,083	Oct. 26, 1875	753	246	8	694
Fire-arm Magazine	R. S. Chaffee	161,480	Mar. 30, 1875	1174	377	7	540
Fire-arm Magazine	E. A. Prescott	159,609	Feb. 9, 1875	350	116	7	241
Fire-arm Magazine	F. M. Shinn	162,582	Apr. 27, 1875	939	302	7	719
Fire-arm Magazine	E. A. F. Toepperwein	167,712	Sept. 14, 1875	304	97	8	456
Fire-arm, Revolving	W. H. Elliot	168,562	Oct. 11, 1875	245	80	8	606
Fire-arm, Revolving	S. Forehand and H. C. Wadsworth	162,162	Apr. 20, 1875	531	175	7	659
Fire-arm, Revolving	F. W. Hood	160,192	Feb. 23, 1875	911	300	7	330
Fire-arm, Revolving	F. W. Hood	161,615	Apr. 6, 1875	23	10	7	572
Fire-arm, Revolving	H. H. Hopkins	162,475	Apr. 27, 1875	849	273	7	707
Fire-arm, Revolving	W. Mason	158,957	Jan. 19, 1875	585	194	7	119
Fire-arm, Revolving	J. Rupertus	165,369	July 6, 1875	209	63	8	37
Fire-arm, Revolving	J. Rupertus	169,848	Nov. 9, 1875	532	166	8	811
Fire-arm, Revolving	D. Smith	160,551	Mar. 9, 1875	278	94	7	297
Fire-arm, Revolving	D. Smith	163,032	May 11, 1875	296	95	7	793
Fire-arm, Revolving	D. Smith	171,059	Dec. 14, 1875	383	126	8	1008
Fire-arm, Revolving	D. Smith and J. C. Marshall	162,863	May 4, 1875	116	38	7	762
Fire-arm, Revolving	D. B. Wesson	158,874	Jan. 19, 1875	500	168	7	109
Fire-arm, Revolving	D. B. Wesson	163,036	May 11, 1875	300	96	7	793
Fire-arm, Revolving	R. White	162,208	Apr. 20, 1875	572	188	7	665
Fire-arm, Revolving	R. White	166,173	July 27, 1875	1034	318	8	187
Fire-arm safety-lock	F. Chillingworth	170,988	Dec. 14, 1875	320	106	8	1000
Fire-arm sight	T. Dunstone	158,577	Jan. 12, 1875	214	73	7	54
Fire-arm sight	E. W. Freund	160,819	Mar. 16, 1875	542	176	7	440
Fire-arm sight	D. M. Martinez	168,404	Oct. 5, 1875	76	27	8	576
Fire-arm stock	J. V. Meigs	160,935	Mar. 16, 1875	639	208	7	454
Fire-arm swivel-band	J. M. Clough	164,267	June 8, 1875	407	136	7	996
Fire-arm trigger, Adjustable	H. Watkeys	167,285	Aug. 31, 1875	1084	341	8	385
Fire-arms, Attaching magazines to	H. Metcalfe	167,006	Aug. 24, 1875	813	252	8	340
Fire-arms, Detachable pistol-gripe for	F. W. Freund	168,834	Oct. 19, 1875	502	164	8	652
Fire-arms, Elastic butt-plate for	H. A. Silver	167,701	Sept. 14, 1875	294	93	8	455
Fire-arms, Extracting shells from revolving	O. F. Cole	171,506	Dec. 28, 1875	845	277	8	1086
Fire-arms, Guard-lever and means for operating the breech-block of breech-loading	F. W. Freund	162,374	Apr. 20, 1875	732	238	7	684
Fire-arms, Implement for	A. E. Barthel	168,823	Oct. 19, 1875	494	161	8	651
Fire-arms, Implement for loading	O. D. Phillips	163,404	May 18, 1875	654	209	7	856
Fire-arms, Pistol-gripe attachment for the stocks of	F. W. Freund	162,373	Apr. 20, 1875	730	238	7	684
Fire-arms, Reversible firing-pin for breech-loading	J. M. Marlin	159,592	Feb. 9, 1875	337	112	7	259
Fire-arms, Tortoise-shell handle for	A. Trenkmann	169,312	Oct. 26, 1875	966	313	8	723
Fire-box	W. Ennis	164,280	June 8, 1875	418	140	7	998
Fire-box-door ring	G. F. Chalender	161,481	Mar. 30, 1875	1175	377	7	540
Fire-box, Water	J. De Butt	160,652	Mar. 9, 1875	364	123	7	410
Fire-dog	D. S. Hale	169,166	Oct. 26, 1875	831	270	8	705
Fire-engine	G. E. Barker	170,699	Dec. 7, 1875	42	13	8	956
Fire-engine	J. Bean	165,056	June 29, 1875	1160	374	7	1121
Fire-engine boiler, Steam	J. N. Dennison	168,973	Oct. 19, 1875	629	208	8	670
Fire-engine, Hand	H. Numeyer	158,729	Jan. 12, 1875	349	118	7	73
Fire-engine, Steam	W. Knaust	164,843	June 22, 1875	953	309	7	1056
Fire-engines, Fire-kindler for steam	F. Beaufait	163,723	May 25, 1875	955	303	7	902
Fire-escape	J. J. F. and J. Arnao, jr.	159,738	Dec. 14, 1875	485	163	7	265
Fire-escape	F. P. Berney	164,131	Feb. 16, 1875	279	95	7	980
Fire-escape	A. J. Culbertson	165,714	June 8, 1875	577	176	8	112
Fire-escape	M. T. Eldredge	161,602	July 20, 1875	13	5	7	570
Fire-escape	T. P. Forsyth	161,113	Apr. 6, 1875	811	266	7	485
Fire-escape	C. A. Fuchslocher and F. A. Schmid	159,371	Mar. 23, 1875	322	105	7	236
Fire-escape	F. M. Harman	168,015	Feb. 9, 1875	583	188	8	506
Fire-escape	T. Jengras	170,270	Sept. 21, 1875	948	{ 296 297 }	8	882
Fire-escape	S. Konz	167,178	Nov. 23, 1875	996	310	8	372
Fire-escape	J. R. Lefferts	170,958	Aug. 31, 1875	287	96, 97	8	996
Fire-escape	J. E. Lindlau	170,281	Dec. 14, 1875	955	299	8	883
Fire-escape	E. Matteson	162,398	Nov. 23, 1875	755	245	7	687
Fire-escape	W. McAllister	171,030	Apr. 20, 1875	352	117	8	1005
Fire-escape elevator	C. F. Thomas and H. Joerus	160,485	Mar. 2, 1875	206	71	7	378

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Fire-escapes, Folding stairs for.....	T. Garrick	169,096	Oct. 26, 1875	768	{ 249 250	8	696
Fire-extinguisher	G. E. Barker	160,072	Feb. 23, 1875	814	267	7	315
Fire-extinguisher	B. F. Cleminshaw	168,720	Oct. 11, 1875	388	127	8	627
Fire-extinguisher	C. L. Delmage	162,041	Apr. 13, 1875	401	135	7	636
Fire-extinguisher	O. M. Doughty	168,627	Oct. 11, 1875	310	101	8	616
Fire-extinguisher	H. C. Hart and M. R. S. Dillon-Lee.	167,664	Sept. 14, 1875	202	82, 83	8	450
Fire-extinguisher	E. A. Maginness	169,013	Oct. 19, 1875	666	219	8	674
Fire-extinguisher	A. A. Murphy and C. C. Hearle..	163,328	May 18, 1875	588	188	7	848
Fire-extinguisher	S. S. Newton	171,628	Dec. 28, 1875	971	315	8	1104
Fire-extinguisher	J. H. Steiner	162,585	Apr. 27, 1875	943	303	7	719
Fire-extinguisher	C. Van Dusen	162,976	May 4, 1875	226	73	7	776
Fire-extinguisher	J. B. Van Dyne	162,718	Apr. 27, 1875	1073	341	7	735
Fire-extinguisher	J. B. Van Dyne	162,719	Apr. 27, 1875	1074	341	7	735
Fire-extinguisher	E. F. Wadhams	162,721	Apr. 27, 1875	1081	343	7	735
Fire-extinguisher, Automatic	J. R. Brown and W. A. Foskett..	166,451	Aug. 10, 1875	276	82	8	245
Fire-extinguisher, Automatic	J. R. Brown and W. A. Foskett..	166,452	Aug. 10, 1875	277	82	8	246
Fire-extinguisher, Chemical	A. Gray	161,504	Mar. 30, 1875	1202	386	7	544
Fire-extinguisher, Chemical	A. E. Hughes	164,837	June 22, 1875	948	307	7	1086
Fire-extinguishing apparatus	J. H. Connelly	161,388	Mar. 30, 1875	1088	353	7	529
Fire-extinguishing apparatus	J. H. Connelly	170,060	Nov. 16, 1875	728	231	8	845
Fire-extinguishing apparatus	J. H. Connelly	170,820	Dec. 7, 1875	149	50	8	970
Fire-extinguishing apparatus	E. Harris	166,003	July 27, 1875	869	267	8	164
Fire-iron stand	E. A. Jackson	165,101	June 29, 1875	1203	387	7	1126
Fire-kindler	F. Boolsen	169,773	Nov. 9, 1875	458	145	8	802
Fire-kindler	C. F. Cushing	170,158	Nov. 23, 1875	848	765	8	868
Fire-kindler	D. Frankfoder	167,520	Sept. 7, 1875	125	38	8	424
Fire-kindler	B. S. Harrington	160,054	Feb. 23, 1875	798	262	7	313
Fire-kindler	C. A. Maynard	167,849	Sept. 21, 1875	447	142	8	485
Fire-lighter	G. Elberg	170,356	Nov. 23, 1875	1021	320	8	803
Fire-lighter, Automatic	M. Curran	165,409	July 13, 1875	279	83	8	53
Fire-place	W. P. Abendroth	161,191	Mar. 23, 1875	877	288	7	494
Fire-place	J. Adair	165,194	July 6, 1875	53	15	8	16
Fire-place	E. M. Deey	163,053	May 11, 1875	314	101	7	795
Fire-place	M. Fitzpatrick	165,440	July 13, 1875	311	91	8	58
Fire-place	J. H. Garrard	162,745	May 4, 1875	9	4	7	748
Fire-place	D. Hayes	171,565	Dec. 28, 1875	898	294	8	1094
Fire-place	J. S. Lester	171,395	Dec. 21, 1875	725	238	8	1062
Fire-place	J. McHenry	165,604	July 13, 1875	459	140	8	80
Fire-place	J. F. Merrill	163,678	May 25, 1875	914	291	7	897
Fire-place	C. S. Rankin	167,020	Aug. 24, 1875	823	256	8	341
Fire-place	R. Thompson	171,067	Dec. 14, 1875	390	129	8	1000
Fire-place	W. Tweeddale	165,134	June 29, 1875	1227	395	7	1139
Fire-place fender	J. Old	160,541	Mar. 9, 1875	270	92	7	399
Fire-place heater	J. M. Atkinson	170,801	Dec. 7, 1875	134	44	8	968
Fire-place heater	W. D. Guseman	171,612	Dec. 28, 1875	955	{ 309 310	8	1102
Fire-place heater	J. B. Oldershaw	168,772	Oct. 11, 1875	436	142	8	634
Fire-place heater	P. Rollhaus, jr	166,300	Aug. 3, 1875	105	33	8	214
Fire-place-heater frame	N. A. Boynton	165,298	July 6, 1875	139	43	8	28
Fire-place, Portable	E. White	168,821	Oct. 11, 1875	479	156	8	640
Fire-place screen	W. C. Williamson	169,876	Nov. 9, 1875	559	174	8	814
Fire-plug	C. E. Gray	166,357	Aug. 3, 1875	155	48	8	221
Fire-plug	C. F. Rapp	169,476	Nov. 2, 1875	138	45	8	754
Fire-plug	J. A. Stacy	167,582	Sept. 7, 1875	178	56	8	431
Fire-plug and automatic pump, Combined	W. W. Harding	166,203	Aug. 3, 1875	18	7	8	201
Fire-plug or hydrant	L. S. Chapman	163,301	May 18, 1875	561	{ 179 180	7	844
Fire-plug or hydrant, Automatic	D. Minich	160,941	Mar. 16, 1875	644	210	7	454
Fire-plug, Water-motor	W. W. Harding	163,652	May 25, 1875	897	284	7	895
Fire-plugs, Street-lamp signal for locating	G. H. Dougherty	168,239	Sept. 28, 1875	821	261	8	545
Fire-shield	J. Babson and J. E. Mulford	158,455	Jan. 5, 1875	90	31	7	22
Fire-shield	J. M. Johnson	160,436	Mar. 2, 1875	160	56	7	371
Fire-shield	T. T. Moore	162,250	Apr. 20, 1875	612	199	7	669
Fire-shield	T. T. Moore and D. E. Bradley	169,466	Nov. 2, 1875	131	42	8	753
Fire-shovel	J. Edgar and A. Bardell	158,478	Jan. 5, 1875	113	38	7	25
Fires, Automatic sprinkler for extinguishing	H. Conant	169,422	Nov. 2, 1875	93	29	8	747
Fires in buildings, Extinguishing	S. S. Newton	171,305	Dec. 21, 1875	642	210	8	1050
Fireman's helmet	J. E. Spear, jr	171,636	Dec. 28, 1875	981	317	8	1105
Fish-culture, Apparatus for	J. Roth	166,413	Aug. 3, 1875	216	65	8	229
Fish for market, Preparing	D. W. and S. H. Davis	161,596	Apr. 6, 1875	8	3	7	570
Fish hook	E. L. Dunlap	163,980	June 1, 1875	117	39	7	947
Fishing and similar floats	W. T. Quinn	165,867	July 20, 1875	728	222	8	132
Fishing-line sinker	E. Pitcher	167,687	Sept. 14, 1875	283	89	8	453
Fishing-reel	T. Winans and T. D. Whistler	161,314	Mar. 23, 1875	998	327	7	510
Fishing-rod	J. L. Graves	164,828	June 22, 1875	940	304	7	1084
Fishing-rod	H. L. Leonard	169,181	Oct. 26, 1875	841	274	8	707
Fishing-rod case	C. Perry	170,188	Nov. 23, 1875	874	273	8	872
Fishing-rod reel	H. Winslow	166,241	Aug. 3, 1875	51	16	8	206
Fishing spoon-hook	G. R. Pierce	167,784	Sept. 14, 1875	374	119	8	466
Flame-regulator	G. M. Hopkins	159,677	Feb. 9, 1875	413	137	7	249
Flask:							
See Dental flask.	Pulley-casting flask.						
Molder's flask.							
Flask	W. H. Stroup	169,051	Oct. 19, 1875	707	233	8	680
Flask and packing-box, Combined	T. R. Almond	162,500	Apr. 27, 1875	952	306	7	720
Flat-iron	F. Sterzing	168,800	Oct. 11, 1875	459	150	8	637
Flat-iron heater	W. Cooper	162,032	Apr. 13, 1875	393	133	7	635
Flat-iron heater	E. D. Dudley	160,011	Feb. 23, 1875	760	251	7	308
Flat-iron heater	B. Wilmot	159,489	Feb. 2, 1875	234	76	7	217
Flock-washing machine	A. C. Russell	171,048	Dec. 14, 1875	366	122	8	1007
Flocking cloth	H. N. Slater	171,057	Dec. 14, 1875	382	122	8	1008
Floor and ceiling, Fire-proof	L. T. Scofield	161,356	Mar. 30, 1875	1055	343	7	525
Floor and ceiling, Fire-proof	L. T. Scofield	161,357	Mar. 30, 1875	1056	344	7	525

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Floor-clamp	W. D. Clark	164, 145	June 8, 1875	290	99	7	981
Floor-clamp	E. Hickman	165, 446	July 13, 1875	316	93	8	59
Floor-cloth, Machine for making plastic	F. Walton	168, 199	Sept. 28, 1875	768	250 251	8	541
Floor, Fire-proof	J. D. Pierce	166, 552	Aug. 10, 1875	355	109	8	257
Floor, Fire-proof	L. P. Rogers	166, 148	July 27, 1875	1010	311	8	184
Floor mat	C. M. Roullier	164, 333	June 8, 1875	466	154	7	1004
Floors for the passage of pipes, Construction of	W. H. Gedney	160, 014	Feb. 23, 1875	762	252	7	309
Flooring-board	S. A. Reed	165, 672	Oct. 11, 1875	348	114	8	622
Flooring-clamp	J. T. and G. J. Moss	164, 754	June 22, 1875	871	284	7	1076
Floral decorations, Body for	C. A. Warren	160, 247	Feb. 23, 1875	960	315	7	317
Floral stand for windows	G. Hills	159, 676	Feb. 9, 1875	412	137	7	249
Flour and middlings purifier	G. W. Brown	160, 080	Feb. 23, 1875	820	269	7	316
Flour and middlings purifier	A. M. Comstock	167, 592	Sept. 7, 1875	104	33	8	421
Flour and sugar packer	S. Taggart	162, 118	Apr. 13, 1875	474	156	7	644
Flour-bolt	D. T. Choat	158, 626	Jan. 12, 1875	257	87, 88	7	60
Flour-bolt	W. J. Merritt	171, 525	Dec. 28, 1875	861	282	8	1089
Flour-bolt	L. V. Rathbun	158, 520	Jan. 5, 1875	149	50	7	30
Flour-dressing machine	M. Martin	159, 694	Feb. 9, 1875	428	143	7	251
Flour-dressing machine	G. T. Smith	161, 050	June 1, 1875	184	65, 66	7	936
Flour-mill	T. C. Delaplane	167, 995	Sept. 21, 1875	561	181	8	502
Flour-mill	A. Lenz	165, 677	July 20, 1875	544	166	8	107
Flour, Mode of packing	L. Mowry	162, 767	Oct. 11, 1875	432	140	8	634
Flour-packer's auger	S. Taggart	166, 906	Aug. 17, 1875	698	217	8	315
Flour packers, Double-acting valve-cut-off to	A. M. Hobbs	168, 020	Sept. 21, 1875	591	189	8	567
Flour, Process of manufacturing middlings	R. L. Downton	162, 157	Apr. 20, 1875	526	173	7	659
Flour-sack packer	C. M. Fuller and R. M. Parkerson	168, 387	Oct. 5, 1875	59	21	8	573
Flower and fruit stands, Manufacture of pressed-glass	J. H. Hobbs and C. W. Brock- unier.	162, 234	Apr. 20, 1875	598	196	7	668
Flower, Artificial	S. Orth	161, 350	Mar. 30, 1875	1048	.....	7	524
Flower-bracket	A. J. Gardner	165, 227	July 6, 1875	79	23	8	20
Flower-frame	N. Steffens	158, 538	Jan. 5, 1875	163	55	7	32
Flower-pot	J. S. Johnson	165, 000	June 29, 1875	1113	359	7	1114
Flower-pot	C. J. Sands	167, 790	Sept. 14, 1875	379	121	8	467
Flower pot and vase stand	E. G. Durant	159, 911	Feb. 16, 1875	647	214	7	286
Flower-pot brackets, Revolving saucer for	S. Freeman and G. E. Smith	165, 224	July 6, 1875	77	23	8	19
Flower stand	S. Vanstone	165, 456	July 13, 1875	327	96	8	60
Flower-stand, Portable	D. M. Reynolds	170, 399	Nov. 23, 1875	1065	335	8	898
Flowers in boxes, Device for holding artificial	T. Andrews, jr., and S. C. Talcott	163, 132	May 11, 1875	383	124	7	805
Flowers, Manufacture of sheet-wax for	M. J. McColl	160, 608	Mar. 9, 1875	327	110	7	405
Flue and heating-drum, Smoke	L. T. Houghton	166, 461	Aug. 10, 1875	283	84	8	246
Flue-cleaner	A. W. Abrams	163, 129	May 11, 1875	382	123	7	805
Flue-cleaner	W. G. Pike	160, 279	Mar. 2, 1875	21	8	7	352
Flue cleaner or scraper	W. H. Kees and L. Schmid	160, 203	Feb. 23, 1875	922	303	7	331
Flue cover	H. Tongue	159, 231	Jan. 26, 1875	858	280	7	164
Flue-lining	C. A. Freeman	170, 841	Dec. 7, 1875	166	56, 57	8	973
Flue stopper, Ventilating	B. A. Meade	163, 504	May 18, 1875	748	2 8	7	868
Fluid can and measure	G. W. Aldrich	158, 773	Jan. 19, 1875	408	137	7	97
Fluid-ejector	G. Westinghouse, jr.	160, 803	Mar. 16, 1875	530	172	7	439
Fluid-meter	B. Huber	169, 703	Nov. 9, 1875	386	121	8	793
Fluid-meter	D. P. Weir	164, 116	June 8, 1875	268	92	7	978
Fluid thief or pump	J. Hitchens	161, 036	Mar. 23, 1875	736	242	7	476
Flume-battery	D. F. Hawkes	163, 867	June 1, 1875	28	9	7	934
Flume for conveying timber	H. G. Parker	159, 959	Feb. 16, 1875	690	229	7	292
Fluted fabrics, Machine for creasing	J. H. Brown	171, 264	Dec. 21, 1875	607	199	8	1046
Fluting and polishing iron	W. I. McCausland	164, 196	June 8, 1875	334	114	7	987
Fluting and sad iron, Combined	C. R. Rand	159, 356	Feb. 2, 1875	103	36	7	198
Fluting-iron	W. F. Fisher and A. C. Brown	169, 534	Nov. 2, 1875	188	64, 65	8	761
Fluting-iron	M. Newton	170, 105	Nov. 16, 1875	774	245	8	851
Fluting-iron	C. C. Savery	162, 104	Apr. 13, 1875	456	152	7	643
Fluting-machine	H. Albrecht	168, 954	Oct. 19, 1875	610	202	8	667
Fluting-machine	H. Albrecht	169, 327	Nov. 2, 1875	1	1	8	735
Fluting-machine	J. E. Donovan	164, 272	June 8, 1875	411	137 138	7	997
Fluting-machine	C. Schneider	169, 301	Oct. 26, 1875	954	309	8	721
Flux for treating ores	P. N. Mackay	159, 831	Feb. 16, 1875	571	.....	7	276
Fluxing composition	A. Paraf	167, 016	Aug. 24, 1875	820	255	8	341
Fly or insect trap	H. G. Nelson	161, 814	Apr. 6, 1875	195	66	7	597
Fly-trap	C. Arandall and W. C. Runyan	163, 719	May 25, 1875	949	301	7	902
Fly-trap	W. J. Bennett	171, 085	Dec. 14, 1875	405	134	8	1012
Fly-trap	J. H. Burtis	158, 623	Jan. 12, 1875	255	86	7	60
Fly-trap	T. C. Dunn	171, 362	Dec. 21, 1875	691	227	8	1058
Fly-trap	H. B. Earing	161, 494	Mar. 30, 1875	1194	383	7	543
Fly-trap	H. B. Earing	170, 355	Nov. 23, 1875	1021	320	8	893
Fly-trap	H. L. Ferris	166, 268	Aug. 3, 1875	76	23	8	210
Fly-trap	R. Nutting	167, 464	Sept. 7, 1875	74	23	8	416
Fly-trap	D. E. Roe	161, 354	Mar. 30, 1875	1053	343	7	525
Fly-trap	C. B. Rukgabee and H. Clarke	160, 719	Mar. 9, 1875	426	142	7	418
Fly-trap	J. C. Sellers	160, 034	Feb. 23, 1875	750	257	7	311
Fly-trap	J. S. White	168, 071	Sept. 21, 1875	654	207	8	515
Fodder-cutter	T. B. Lamb	170, 569	Nov. 30, 1875	1234	389	8	900
Fog-signal	W. S. Martin	167, 848	Sept. 21, 1875	447	142	8	485
Folding and perforating machine	W. Daniels	167, 309	Aug. 31, 1875	1103	347	8	388
Folding chair	J. H. Bean and R. W. Box	168, 865	Oct. 19, 1875	530	174	8	655
Folding chair	I. N. Dann	168, 725	Oct. 11, 1875	392	128	8	628
Folding chair	I. N. Dann	168, 883	Oct. 19, 1875	544	178	8	658
Folding chair	I. N. Dann	169, 968	Nov. 16, 1875	647	202	8	834
Folding chair	F. Hickman	167, 988	Aug. 24, 1875	899	280	8	351
Folding chair	F. Hickman	170, 562	Nov. 30, 1875	1229	387	8	929
Folding chair	G. McAleer	169, 015	Oct. 19, 1875	668	219	8	675
Folding chair	G. McAleer	169, 016	Oct. 19, 1875	669	220	8	675
Folding chair	P. W. Nolan	159, 205	Jan. 26, 1875	833	274	7	161
Folding chair	C. D. Oatman	164, 321	June 8, 1875	457	151	7	1091
Folding chair	F. A. Patch	171, 040	Dec. 14, 1875	361	120	8	1006
Folding chair	J. E. Wakefield	164, 060	June 1, 1875	194	70	7	957

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Folding chair.....	J. E. Wakefield.....	169,748	Nov. 9, 1875	432	137	8	797
Folding chair.....	J. A. Ware.....	164,061	June 1, 1875	195	70	7	957
Folding chair.....	G. E. Whitmore.....	160,985	Mar. 16, 1875	683	224	7	460
Folding table.....	H. Baldwin.....	168,124	Sept. 28, 1875	720	227	8	531
Folding table.....	J. Bradfield.....	162,215	Apr. 20, 1875	579	190	7	665
Folding table.....	J. Bradfield.....	170,515	Nov. 30, 1875	1186	374	8	923
Folding table.....	H. Butman.....	161,750	Apr. 5, 1875	139	48	7	589
Folding table.....	P. Cameron.....	160,155	Feb. 23, 1875	882	291	7	326
Folding table.....	P. S. Crawford.....	166,263	Aug. 3, 1875	71	22	8	209
Folding table.....	W. Decker.....	161,597	Apr. 6, 1875	9	3	7	570
Folding table.....	J. W. and D. Howland.....	161,123	Mar. 23, 1875	822	269	7	487
Folding table.....	R. M. Lambie and G. F. Sargent.....	171,115	Dec. 14, 1875	466	153	8	1019
Folding table.....	E. J. Marsters.....	165,111	June 29, 1875	1122	362	7	1115
Folding table.....	J. E. Root.....	165,951	July 27, 1875	820	251	8	157
Folding table.....	H. B. Sinclair.....	159,227	Jan. 26, 1875	856	279	7	164
Folding table.....	R. Sprigade and J. Schnoering.....	162,865	May 4, 1875	118	38	7	762
Folding table.....	S. T. Waggoner.....	161,304	Mar. 23, 1875	961	324	7	508
Folding table.....	S. T. Waggoner.....	162,978	May 4, 1875	228	73	7	777
Folding table.....	J. Walton.....	165,457	July 13, 1875	328	96	8	60
Folding table.....	F. C. Wheeler.....	163,122	May 11, 1875	374	122	7	804
Folding table.....	G. H. Williams.....	163,833	May 23, 1875	1047	332	7	915
Folding table.....	H. York.....	159,737	Feb. 9, 1875	467	{ 156 157 }	{ 7 7 }	257
Folding table, Adjustable.....	C. S. Hood.....	166,874	Aug. 17, 1875	669	208	8	311
Food, Animal.....	G. Gordon.....	164,166	June 8, 1875	312	.....	7	984
Food, Concentrated extract for.....	J. and W. Horlick.....	163,493	May 18, 1875	733	.....	7	967
Foot-mat.....	A. Wessar and P. W. Cornelius.....	162,510	Apr. 27, 1875	808	282	7	711
Foot-rest.....	L. M. Angle.....	162,787	May 4, 1875	49	15	7	753
Foot-rest.....	G. W. Edgecomb and H. A. Gore.....	164,911	June 29, 1875	1038	334	7	1104
Foot-rest.....	F. A. Farnham.....	169,897	Nov. 16, 1875	590	183	8	826
Forge, Blacksmith's.....	A. Benac.....	166,247	Aug. 3, 1875	57	18	8	207
Forging carriage-axle nuts, Die for.....	H. Hammond.....	168,740	Oct. 11, 1875	410	133	8	630
Forging carriage-shaft eyes, Die for.....	W. B. McElney.....	171,151	Dec. 14, 1875	474	155	8	1021
Forging saddle-clips, Die for.....	W. S. Ward.....	169,869	Nov. 9, 1875	551	172	8	813
Forging wrench-bar heads, Machine for.....	O. C. Burdick.....	168,135	Sept. 28, 1875	729	{ 230 231 }	{ 8 8 }	532
Fork:							
See Barley-fork. Hay-fork.							
Grain-fork.							
Fork and skewer-pull, Combined.....	E. W. Anderson.....	194,956	June 29, 1875	1078	347	7	1109
Fork and skimmer, Combined.....	A. B. Nott.....	165,117	June 29, 1875	1215	391	7	1128
Forks, Sharpening attachment to.....	D. M. Church and W. F. Gilbert.....	159,794	Feb. 16, 1875	542	180	7	272
Founder's pattern.....	S. J. Gold.....	163,010	May 11, 1875	273	88	7	791
Fountain:							
See Hanging or portable fountain.							
Parlor-fountain. Soda-fountain.							
Soda-water fountain.							
Fountain-sprinkler.....	C. A. Buttles.....	158,903	Jan. 19, 1875	534	178	7	113
Fountains, Ornamental jet for.....	T. Galvin.....	165,668	July 20, 1875	537	164	8	106
Fracture apparatus.....	B. Danby.....	167,073	Aug. 24, 1875	871	272	7	348
Fracture-box.....	C. Westerkamp.....	163,829	May 25, 1875	1042	331	7	915
Frame:							
See Bed-bottom frame. Loom-heddle frame.							
Canopy-frame. Mosquito-bar frame.							
Clock-frame. Paper picture-frame.							
Clothes-frame. Picture-frame.							
Drawing and spinning frame. Pocket-book frame.							
Eyeglass-frame. Quilting-frame.							
Flower-frame. Roving frame.							
Graining-plate frame. Sash-frame.							
Grate-frame. Saw-frame.							
Grindstone-frame. Slate-frame.							
Harness-hanging frame. Spinning-frame.							
Harvester-frame. Steam-engine frame.							
Hat-frame. Toilet-glass frame.							
Heddle-frame. Vehicle-dash frame.							
Loom-harness frame. Wind-wheel frame.							
Window-frame.							
Freezing apparatus.....	E. C. Tozer.....	170,493	Nov. 30, 1875	1171	{ 369 370 }	{ 8 8 }	921
Friction-drum.....	J. S. Mundy.....	158,967	Jan. 19, 1875	593	197	7	120
Friction power-brake.....	W. H. Ward.....	167,044	Aug. 24, 1875	841	262	8	344
Fringe.....	J. Hirner.....	169,993	Nov. 16, 1875	668	209	8	837
Fruit and jelly press.....	C. Cook and W. W. Bostwick.....	167,827	Sept. 21, 1875	426	136	8	482
Fruit and jelly press.....	H. Nadermann.....	167,013	Aug. 24, 1875	819	254	8	340
Fruit-basket.....	N. L. Tuck.....	170,920	Dec. 7, 1875	233	80	8	982
Fruit-box.....	D. Prützmann.....	169,841	Nov. 9, 1875	525	164	8	810
Fruit-can.....	S. W. McOmber.....	164,857	June 22, 1875	967	313	7	1088
Fruit-drier.....	H. J. Allen.....	160,377	Mar. 2, 1875	105	38	7	363
Fruit-drier.....	H. E. Bidwell.....	163,968	June 1, 1875	106	36	7	946
Fruit-drier.....	L. A. Gould.....	160,587	Mar. 9, 1875	308	104	7	402
Fruit-drier.....	J. Johnson.....	166,385	Aug. 3, 1875	187	56	8	225
Fruit-drier.....	E. A. and C. W. Jones.....	158,499	Jan. 5, 1875	133	44	7	27
Fruit-drier.....	D. S. Lowman and H. T. Creps.....	167,549	Sept. 7, 1875	149	46	8	427
Fruit-drier.....	J. P. Nettle.....	168,769	Oct. 11, 1875	433	141	8	634
Fruit-drier.....	A. J. Reynolds.....	165,121	June 29, 1875	1218	392	7	1129
Fruit-drier.....	T. C. Walter.....	160,371	Mar. 2, 1875	100	37	7	363
Fruit-drier.....	L. and F. Whittlesey.....	171,202	Dec. 14, 1875	527	{ 173 174 }	{ 8 8 }	1027
Fruit-drier, Portable.....	J. W. Faulkner.....	166,086	July 27, 1875	946	292	8	175
Fruit-gatherer.....	I. Coe.....	170,056	Nov. 16, 1875	723	230	8	845
Fruit-gatherer.....	N. Lash.....	161,523	Mar. 30, 1875	1218	391	7	546
Fruit-gatherer.....	W. McDevitt.....	160,341	Mar. 2, 1875	76	27	7	359

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Fruit-gatherer.....	M. Smith	166, 418	Aug. 3, 1875	221	67	8	230
Fruit-gatherer.....	C. A. Werden	159, 873	Feb. 16, 1875	611	{ 212 203 }	7	281
Fruit-jar	C. R. Carter	169, 340	Nov. 2, 1875	16	5	8	737
Fruit-jar	J. H. Cowl	167, 437	Sept. 7, 1875	52	16	8	413
Fruit-jar	P. F. Darche	161, 210	Mar. 23, 1875	893	293	7	497
Fruit-jar	E. S. Hunt	170, 172	Nov. 23, 1875	863	269	8	870
Fruit-jar	D. E. Stevens and R. F. Lumley ..	164, 663	June 22, 1875	787	258	7	1065
Fruit-jar	D. E. Stevens and R. F. Lumley ..	165, 962	July 27, 1875	830	258	8	158
Fruit-jar wire fastener	C. Wright	159, 010	Jan. 19, 1875	633	210	7	126
Fruit loosener, Dried	H. J. White	166, 171	July 27, 1875	1032	318	8	187
Fruit-picker	J. Bailey	165, 053	June 29, 1875	1158	373	7	1120
Fruit-picker	J. Mooney	171, 482	Dec. 28, 1875	819	269	8	1083
Fruit-picker	B. F. Price	158, 736	Jan. 12, 1875	355	120	7	74
Fruit-press	I. W. Heysinger	166, 103	July 27, 1875	964	297	8	177
Fruit-press, filler, and funnel, Combined ..	G. A. Newsam	161, 816	Apr. 6, 1875	197	66	7	597
Frying-pan	A. Malin	166, 120	July 27, 1875	979	302	8	180
Frying-pan	B. Morahan	171, 586	Dec. 28, 1875	911	298	8	1096
Fuel, Apparatus for economizing	L. C. E. Cane	166, 846	Aug. 17, 1875	637	199	8	307
Fuel, Artificial	J. J. Endres	162, 362	Apr. 20, 1875	716	.....	7	682
Fuel composition, Artificial	E. F. Loisean	167, 914	Sept. 21, 1875	501	.....	8	493
Fuel, Machine for mixing and molding artificial ..	E. F. Loisean	167, 913	Sept. 21, 1875	500	159	8	493
Fuel, Machine for the manufacture of artificial ..	J. J. Endres	162, 363	Apr. 20, 1875	717	{ 233 234 }	7	682
Fuel, &c., Machinery for compression of blocks of ..	F. J. Hamel	164, 834	June 22, 1875	945	306	7	1085
Fuel, Making quick-burning	W. A. Shepard	166, 941	Aug. 24, 1875	745	.....	8	330
Fuel, Press for molding artificial	H. Cottrell	170, 713	Dec. 7, 1875	55	17	8	958
Fulling-mill	S. Hussey	158, 842	Jan. 19, 1875	473	159	7	105
Fumigator, Greenhouse	T. Shaw	161, 163	Mar. 23, 1875	855	279	7	491
Funnel	A. Pfirr	159, 445	Feb. 2, 1875	184	63	7	210
Funnel, Lamp-filling	H. H. V. Lilley	167, 548	Sept. 7, 1875	149	46	8	427
Funnel, Measuring	I. W. Hoagland	160, 017	Feb. 23, 1875	765	253	7	309
Funnel, Measuring	R. A. Landon	170, 093	Nov. 16, 1875	764	241	8	850
Furnace:							
See Air-heating furnace.	Ore-roasting furnace.						
Air-heating and ven-tilating furnace.	Petroleum-burning fur-nace.						
Blank-furnace.	Pipe-welding furnace.						
Boiler-furnace.	Portable furnace.						
Brick-kiln furnace.	Puddling-furnace.						
Cupola furnace.	Quicksilver-furnace.						
Gas-retort furnace.	Reverberating furnace.						
Glass-furnace.	Reverberatory furnace.						
Glue-pot furnace.	Revolving furnace.						
Heating-furnace.	Singeing-furnace.						
Hot-air furnace.	Sleigh-runner furnace.						
Hydrocarbon furnace.	Smelting-furnace.						
Insect-destroying furnace.	Smoke-burning furnace.						
Metal-furnace.	Smoke-consuming furnace.						
Metallurgic furnace.	Straw-burning furnace.						
Metallurgic heating-furnace.	Tempering-furnace.						
Metallurgical fur-nace.	Tinman's furnace.						
	Warm-air furnace.						
Furnace.....	B. F. Babbitt	167, 291	Aug. 31, 1875	1089	342	8	385
Furnace.....	J. K. Caldwell	169, 338	Nov. 2, 1875	15	5	8	736
Furnace.....	F. P. Dimpfel	167, 441	Sept. 7, 1875	56	17	8	414
Furnace.....	N. L. Newcomb	168, 174	Sept. 28, 1875	765	243	8	538
Furnace.....	H. M. Smith	164, 402	June 15, 1875	547	179	7	1024
Furnace.....	H. M. Smith	164, 404	June 15, 1875	550	180	7	1024
Furnace.....	H. M. Smith	167, 579	Sept. 7, 1875	174	55	8	431
Furnace and heater.....	F. Blazicek and G. W. M. Bauer ..	158, 460	Jan. 5, 1875	95	32	7	22
Furnace and stove.....	E. Hawkes	164, 995	June 29, 1875	1109	358	7	1113
Furnace-door.....	E. H. Ashcroft	162, 335	Apr. 20, 1875	687	224	7	679
Furnace-door.....	E. H. Ashcroft	167, 210	Aug. 31, 1875	1022	317	8	376
Furnace-door.....	J. Ashcroft	162, 333	Apr. 20, 1875	685	223	7	679
Furnace-door.....	J. Ashcroft	162, 334	Apr. 20, 1875	686	224	7	679
Furnace-door casing.....	H. F. Hayden	167, 665	Sept. 14, 1875	265	83	8	450
Furnace-doors, Device for opening and closing ..	S. L. Denney	158, 475	Jan. 5, 1875	110	37	7	24
Furnace-doors, Device for opening and closing ..	G. Lees	159, 190	Jan. 26, 1875	819	{ 269 270 }	7	159
Furnace for blanks	J. W. Bonta	166, 335	Aug. 3, 1875	137	42	8	218
Furnace for blanks	J. W. Bonta	166, 336	Aug. 3, 1875	138	43	8	219
Furnace-lining composition.....	C. E. Wilson	163, 345	May 18, 1875	604	.....	7	849
Furnace steam-distributor.....	A. B. Corey	159, 156	Jan. 26, 1875	786	258	7	154
Furnace steam-jet.....	G. Steele	160, 480	Mar. 2, 1875	200	69	7	377
Furnaces, Apparatus for regulating the supply of air to ..	T. S. Prideaux	160, 466	Mar. 2, 1875	186	65	7	375
Furnaces, Device for feeding air to	J. L. Winslow	164, 357	June 8, 1875	473	{ 162 163 }	7	1008
Furnaces, Door for feeding straw to	W. F. Morgan	159, 524	Feb. 9, 1875	287	93	7	231
Furnaces, Feeding air to	W. J. O'Neal	167, 467	Sept. 7, 1875	76	23	8	417
Furnaces, Promoting combustion in	J. C. Tiffany	163, 547	May 18, 1875	788	250	7	873
Furnaces, Steam or gas and air blast pipe for ..	G. H. Goodsell	165, 561	July 13, 1875	421	127	8	75
Furniture-drawer	J. J. Fox	159, 570	Feb. 9, 1875	321	105	7	236
Furniture-drawers, Anti-friction device for ..	J. D. Freese	167, 161	Aug. 31, 1875	981	305	8	370
Furniture-spring	J. Flinn	171, 369	Dec. 21, 1875	697	229	8	1058
Furniture-spring	H. W. Ladd	164, 189	June 8, 1875	330	112	7	987
Fuse, Electric	C. A. and I. S. Browne	158, 672	Jan. 12, 1875	300	102	7	66
Fuse, Electric	F. A. Canfield	169, 622	Nov. 9, 1875	297	96	8	7-2
Fuse, Electric	C. L. Kalmbach	164, 921	June 29, 1875	1046	337	7	105
Fuse, Shell	R. S. Walter	161, 184	Mar. 23, 1875	871	286	7	493
Fuses, Priming for electric	G. M. Mowbray	161, 430	Mar. 30, 1875	1127		7	534
Fuses, &c., Priming for electric	G. M. Mowbray	161, 431	Mar. 30, 1875	1128		7	534

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G.							
Gaffs, Throat-gear for	C. H. Kingston	162,291	Apr. 20, 1875	648	212	7	674
Gag-runner	J. P. Hisley	159,265	Feb. 2, 1875	23	8	7	187
Gage:							
See Bias-gage. Plow-row gage.							
Bit-gage. Pressure-gage.							
Caliber-gage. Printing-press feed-gage.							
Carpenter's sliding Railway-track gage.							
gage. Shears-gage.							
Hair-cutter's gage. Shingling-gage.							
Metal or paper gage. Siding-gage.							
Mill-b u h-r f u r r o w Stone-cutter's gage.							
gage. Taper-gage.							
Plow-furrow gage. Weather-board gage.							
Gaiter, Button	A. Kenny	169,708	Nov. 9, 1875	390	122	8	794
Gaiter, Button	W. H. Miller	169,622	Oct. 19, 1875	674	222	8	576
Gaiter, Congress	J. W. Tutewiler	160,854	Mar. 16, 1875	568	185	7	444
Gaiters, Manufacture of button	A. Kenny	169,271	Oct. 26, 1875	924	299 } 300 }	8	718
Galley, Ship's	J. A. Lusby and J. V. Smith	165,423	July 13, 1875	291	86	8	55
Galvanic battery	T. Chutaux	164,807	June 22, 1875	921	298	7	1082
Galvanic battery	J. C. Clamond and L. A. Gaiffe	165,210	July 6, 1875	67		8	18
Galvanic battery	W. M. Davis	162,806	May 4, 1875	65	21	7	755
Galvanic battery	B. F. Dawson	167,510	Sept. 7, 1875	113	36	8	42
Galvanic battery	H. P. Dechert	164,570	June 8, 1875	409	137	7	996
Galvanic battery	C. Duhem	169,529	Nov. 2, 1875	184	62	8	760
Galvanic battery	E. A. Hill	167,173	Aug. 31, 1875	992	308	8	372
Galvanic battery	V. E. Keegan	162,318	May 18, 1875	576	184	7	846
Galvanic battery	J. Kidder	166,012	July 27, 1875	877	270	8	165
Galvanic battery	G. L. Leclanche	165,452	July 13, 1875	322	94	8	59
Galvanic battery	J. Leiter	161,246	Mar. 23, 1875	933	304	7	501
Galvanic battery	R. M. Lockwood	170,864	Dec. 7, 1875	185	63	8	975
Galvanic-battery pole	H. P. Dechert	165,312	July 6, 1875	153	47	8	30
Galvanizer's dross, Process of purifying	W. B. Spear and J. W. Richards	161,831	Apr. 6, 1875	212		7	599
Game apparatus	C. L. Browne	163,845	June 1, 1875	9	3	7	932
Game apparatus	M. C. Burr	170,707	Dec. 7, 1875	50	15	8	957
Game apparatus	J. D. Butler	165,154	July 6, 1875	7	3	8	10
Game apparatus	D. R. Da Costa	158,918	Jan. 19, 1875	547	182	7	114
Game apparatus	V. Klobassa	159,937	Feb. 16, 1875	670	222	7	289
Game apparatus	C. Metz	161,627	Apr. 6, 1875	33	13	7	574
Game apparatus	A. Miller	168,274	Sept. 28, 1875	854	272	8	550
Game apparatus	D. J. Pierce	161,953	Apr. 13, 1875	354	119	7	629
Game apparatus	N. Reiz	164,328	June 8, 1875	461	153	7	10.4
Game apparatus	F. W. Smith	158,991	Jan. 19, 1875	617	205	7	124
Game apparatus	C. B. Wainwright	158,655	Jan. 12, 1875	288	96	7	64
Game apparatus	J. J. Weber	167,716	Sept. 14, 1875	308	98	8	457
Game apparatus, Revolving	J. W. Cameron	169,085	Oct. 26, 1875	755	246	8	694
Game-board	G. Bayles	162,141	Apr. 20, 1875	512	168	7	657
Game-board	A. O. Bourn and W. G. Vermilye	163,630	May 25, 1875	879	277	7	893
Game-board	H. Darneal	166,192	Aug. 3, 1875	10	4	8	200
Game-board	C. R. Edwards	165,410	July 13, 1875	280	83	8	54
Game-board	I. N. Forrester	166,198	Aug. 3, 1875	14	5	8	201
Game-board	O. A. Gill	160,820	Mar. 16, 1875	544	176	7	441
Game-board	A. Herzog	166,776	Aug. 17, 1875	578	178	8	298
Game-board	V. Klobassa	162,664	Apr. 27, 1875	1012	324	7	728
Game-board	W. F. Lamb	168,570	Oct. 11, 1875	254	83	8	608
Game, &c., board	C. F. Morgan	163,601	May 23, 1875	853	269	7	889
Game-board	M. Riedinger	163,234	Feb. 23, 1875	950	312	7	335
Game-board	J. G. Thurber, jr.	170,429	Nov. 23, 1875	1090	343	8	902
Game-counter	D. Fey and R. H. Pein	169,160	Oct. 26, 1875	826	268	8	704
Game-counter	C. E. Hackley	167,662	Sept. 14, 1875	261	81	8	450
Game-table	T. L. Hawkins	163,192	May 11, 1875	444	143	7	812
Game-table	N. W. Moulton	164,654	June 22, 1875	779	255	7	1064
Game-table waiter	G. W. Marble	171,624	Dec. 28, 1875	968	313	8	1103
Garbage-vault	G. L. Shepard and W. Bedell	166,311	Aug. 3, 1875	116	35, 36	8	216
Garden implement	J. Christy	168,234	Sept. 28, 1875	817	259	8	545
Garden-rake	F. B. Hedge	159,821	Feb. 16, 1875	564	187	7	275
Garden sprinkler	F. M. Gray	160,516	Mar. 9, 1875	248	85	7	393
Garden-sprinkler	P. Muller	160,220	Feb. 23, 1875	938	308	7	334
Garment-shaping block	H. Eggeston	163,467	May 18, 1875	706	226	7	863
Garment, Under	L. P. Bonney	171,467	Dec. 28, 1875	802	264	8	1081
Garment, Under	S. T. Converse	167,436	Sept. 7, 1875	52	16	8	413
Garments, Apparatus for cutting out	K. McKenzie	163,674	May 25, 1875	911	290	7	897
Garments, Machine for cutting out	J. L. Fry	168,011	Sept. 21, 1875	580	186	8	505
Garments, Tailor's device for laying out	G. E. Tiffany	164,343	June 8, 1875	475	158	7	1006
Garter	G. H. Blakesley and J. Wright	169,229	Oct. 26, 1875	885	287	8	713
Garter	L. F. McDonald	158,429	Jan. 5, 1875	66	23	7	18
Gas and oils, Manufacture of	H. M. Martin	163,324	May 18, 1875	582	187	7	847
Gas and water regulator	A. L. Smith	165,767	July 20, 1875	622	191	8	119
Gas apparatus	J. D. Cathell	162,625	Apr. 27, 1875	974	313	7	723
Gas apparatus	F. H. Eichbaum	168,006	Sept. 21, 1875	573	185	8	504
Gas apparatus	J. H. Eichholz	169,973	Nov. 16, 1875	652	204	8	835
Gas apparatus	C. M. Gearing	166,603	Aug. 10, 1875	402	124	8	264
Gas apparatus	A. Glachet	166,867	Aug. 17, 1875	660	205	8	310
Gas apparatus	J. D. Kutz	163,385	May 18, 1875	638	204	7	854
Gas apparatus	C. Lord and B. J. McCabe	168,999	Oct. 19, 1875	574	189	8	662
Gas apparatus	P. W. Mackenzie	168,265	Sept. 28, 1875	845	270	8	549
Gas apparatus	J. H. Pugh	168,049	Sept. 21, 1875	624	200	8	511
Gas apparatus	R. H. Smith and J. Goldthrop	163,817	May 25, 1875	1033	327	7	913
Gas apparatus	R. P. Spice	165,268	July 6, 1875	114	34	8	24
Gas apparatus	H. J. Surmon	168,539	Oct. 5, 1875	202	66, 67	8	593
Gas apparatus, Coal	M. W. Kidder	165,168	July 6, 1875	20	7	8	11
Gas, Apparatus for charging a stream of water with } carbonic-acid	H. B. Dunham	161,216	Mar. 23, 1875	897	294 } 295 }	7	497

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Gas, Apparatus for generating and washing carbonic-acid.	H. Voigt	168,300	Sept. 28, 1875	875	280	8	553
Gas, Apparatus for manufacture of illuminating.....	P. W. Mackenzie.....	168,758	Oct. 11, 1875	424	138	8	633
Gas, Apparatus for manufacture of illuminating.....	R. H. Smith and J. Goldthrop ..	166,645	Aug. 10, 1875	438	135	8	269
Gas, Apparatus for manufacturing heating.....	J. M. Ayer	167,491	Sept. 7, 1875	95	30	8	420
Gas, Apparatus for purifying illuminating.....	C. V. Smith and W. Farmer	163,339	May 18, 1875	598	191	7	849
Gas apparatus, Hydrocarbon	C. F. Schüssler	162,290	Sept. 28, 1875	866	277	8	552
Gas apparatus, Hydrocarbon	G. W. Tinsley	163,117	May 11, 1875	370	120	7	803
Gas apparatus, Illuminating	P. L. Allaire	170,799	Dec. 7, 1875	132	44	8	968
Gas apparatus, Portable and stationary	R. H. Ramsey	169,291	Oct. 26, 1875	943	306	8	7.0
Gas as a motive-power, Using carbonic-acid.....	J. Wescott	168,546	Oct. 5, 1875	210	69	8	594
Gas-burning boiler, Vertical.....	Z. S. Durfee	167,020	Aug. 24, 1875	878	{ 274 275 }	8	349
Gas, Combined scrubber and condenser for illuminating.	T. C. Hopper	170,475	Nov. 30, 1875	1149	362	8	918
Gas condenser and purifier, Coal.....	W. L. Pratt	162,766	May 4, 1875	27	10	7	750
Gas conduits, Preventing or removing deposits in.....	J. C. Tiffany	170,414	Nov. 23, 1875	1076	.....	8	900
Gas-engine	P. Vera	160,130	Feb. 23, 1875	859	284	7	323
Gas-exhauster, Steam-jet	E. Korting	160,443	Mar. 2, 1875	166	57	7	372
Gas-fitters' hooks, Blank for	J. W. Lyon	169,364	Nov. 2, 1875	45	13	8	740
Gas fixture for lighting vaults.....	R. H. Watson	163,035	May 11, 1875	299	96	7	793
Gas-flames, Apparatus for lighting, extinguishing, } and regulating	L. Baumeister.....	158,887	Jan. 19, 1875	511	{ 171 172 }	7	110
Gas for burning and lighting, Manufacture of.....	T. B. Redwood	169,037	Oct. 19, 1875	689	.....	8	677
Gas for heating-furnaces, Apparatus for preparing oil-well.	W. S. Gillen.....	167,168	Aug. 31, 1875	983	305	8	370
Gas from hydrocarbon, Apparatus for manufactur- } ing illuminating.....	H. S. Maxin	160,216	Feb. 23, 1875	934	{ 306 307 }	7	333
Gas from hydrocarbon liquids, Apparatus for pro- } ducing.....	F. G. Voigt.....	160,799	Mar. 16, 1875	526	{ 169 170 171 }	7	438
Gas from petroleum, Apparatus for manufacturing.....	J. McClarty.....	165,012	June 29, 1875	1123	362	7	1115
Gas-tuel, Compound for	C. Jenty	160,201	Feb. 23, 1875	919	.....	7	331
Gas-furnace	A. Parkes	171,162	Dec. 14, 1875	482	{ 158 159 160 }	8	1022
Gas-generating apparatus	J. H. Rawlings and L. Irelan....	159,355	Feb. 2, 1875	104	36	7	198
Gas-generating apparatus	C. L. Vasquez	170,788	Dec. 7, 1875	121	39	8	966
Gas-generator	W. McKnight.....	171,578	Dec. 28, 1875	909	{ 297 298 }	8	1096
Gas-generator	J. C. Mitchell	166,288	Aug. 3, 1875	96	29, 30	8	212
Gas generator, Carbonic-acid	C. C. Glover	164,163	June 8, 1875	308	105	7	984
Gas generator, Carbonic-acid	O. Zwietsch	161,728	Apr. 6, 1875	120	42	7	586
Gas-governor	S. D. Baldwin	168,551	Oct. 11, 1875	234	77	8	605
Gas-governor.....	F. M. Dunbar, N. Stowell, and E. M. Dunbar.	163,166	May 11, 1875	418	136	7	809
Gas-governor.....	H. J. Ferguson	160,409	Mar. 2, 1875	134	47, 48	7	368
Gas-governor.....	W. D. Snow	167,795	Sept. 14, 1875	383	123	8	468
Gas-governor.....	F. W. Weisbrock.....	158,768	Jan. 12, 1875	332	130	7	77
Gas-governor, Diaphragm	W. Frost	165,161	July 6, 1875	13	.....	8	11
Gas-heater	G. Mooney	168,764	Oct. 11, 1875	428	140	8	633
Gas, Heating retort for the manufacture of illuminating.	W. H. Spencer.....	166,037	July 27, 1875	899	.....	8	168
Gas-holder	L. Marks	171,028	Dec. 14, 1875	351	117	8	1004
Gas-holders, Vertical bar for	J. W. Starr, jr.	168,799	Oct. 11, 1875	459	150	8	637
Gas hydraulic mains, Dip-pipe for.....	R. M. Caffall and A. Thomas.....	159,389	Feb. 2, 1875	131	46	7	203
Gas in water, Absorbing ammonia.....	J. M. Beath	159,998	Feb. 23, 1875	745	247	7	307
Gas-jet protector	J. W. Naramore.....	167,351	Aug. 31, 1875	1142	359	8	393
Gas-light globe.....	T. Trudeau	167,417	Sept. 7, 1875	35	10	8	411
Gas-light governor	N. Tufts	159,721	Feb. 9, 1875	451	151	7	255
Gas-lighter, Automatic	E. L. McGill	160,932	Mar. 16, 1875	036	207	7	453
Gas-lighter, Automatic	H. E. Stockwell and A. B. Weiss.	170,913	Dec. 7, 1875	227	78	8	981
Gas-lighter, Electric	O. A. A. Rouillon	170,303	Nov. 23, 1875	978	306	8	886
Gas lighting and extinguishing apparatus.....	H. Green and J. Barrow	169,352	Nov. 2, 1875	27	8, 9	8	739
Gas-lighting apparatus.....	R. M. Potter and W. W. Thomas.	160,228	Feb. 23, 1875	944	310	7	334
Gas-lighting apparatus.....	Z. Woodworth	169,879	Nov. 9, 1875	562	175	8	815
Gas-lighting apparatus, Electric.....	E. E. Bean	170,221	Nov. 23, 1875	903	282	8	875
Gas-lighting apparatus, Electric.....	R. Chamberlain.....	168,614	Oct. 11, 1875	296	96	8	614
Gas-lighting apparatus, Electric.....	C. H. Hinds and A. T. Smith	171,130	Dec. 14, 1875	452	149	8	1018
Gas-lighting apparatus, Electric.....	F. V. Sandford	166,304	Aug. 3, 1875	108	34	8	215
Gas-lighting apparatus, Electro-magnetic.....	E. E. Bean	158,889	Jan. 19, 1875	516	{ 172 173 }	7	111
Gas-lighting by electricity	C. H. Hinds and A. T. Smith	171,131	Dec. 14, 1875	454	149	8	1018
Gas-machine	T. B. Fogarty	171,607	Dec. 28, 1875	935	{ 316 307 }	8	1099
Gas-machine	A. Glochet.....	168,390	Oct. 5, 1875	62	22, 23	8	573
Gas-machine	J. C. Henderson.....	159,179	Jan. 26, 1875	809	265	7	157
Gas, Machine for manufacturing vapor	G. B. Caldwell	164,422	June 15, 1875	568	{ 184 185 }	7	1026
Gas-machine retort.....	T. Van Kannel and L. D. Towse-ley.	169,747	Nov. 9, 1875	431	136	8	799
Gas-machines, Automatic air-blast for.....	R. Hewson.....	162,922	May 4, 1875	167	55	7	769
Gas-mains, Drain for	J. Nader	167,854	Sept. 21, 1875	453	113	8	486
Gas-making process	M. W. Kidder.....	164,093	June 8, 1875	246	85	7	975
Gas-making retorts, Apparatus for supplying liquid hydrocarbon to.	F. H. Eichbaum.....	165,809	July 20, 1875	667	204	8	124
Gas, Manufacture of	J. P. Gill.....	171,117	Dec. 14, 1875	433	{ 144 145 }	8	1016
Gas, Manufacture of	P. W. Mackenzie.....	165,347	July 6, 1875	186	56	8	34
Gas, Manufacture of	H. M. Martin	163,323	May 18, 1875	580	{ 186 187 }	7	847
Gas, Manufacture of	H. W. C. Tweddle.....	165,189	July 6, 1875	49	14	8	15
Gas, Manufacture of illuminating	J. W. Beatley.....	169,326	Oct. 26, 1875	978	317	8	725
Gas, Manufacture of illuminating	W. H. Spencer	166,036	July 27, 1875	898	277	8	168
Gas, Manufacturing illuminating and heating	G. W. Harris.....	169,637	Nov. 9, 1875	316	101	8	784

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Gas-meter.....	J. Morgan.....	171,407	Dec. 21, 1875	735	241	8	1063
Gas-meter.....	J. Radston.....	160,031	Feb. 23, 1875	777	256	7	310
Gas, Method of treating natural.....	J. H. McElroy and R. Young.....	171,400	Dec. 21, 1875	729	.....	8	1062
Gas-mixing machine.....	L. Lamszweert.....	170,677	Dec. 7, 1875	22	7	8	953
Gas or air, Process and apparatus for enriching.....	E. H. Covell.....	169,423	Nov. 2, 1875	93	29	8	747
Gas-pendant slide.....	S. B. H. Vance.....	162,871	May 4, 1875	122	40	7	763
Gas, Process and apparatus for manufacture of.....	L. N. Stanley.....	161,836	Apr. 6, 1875	217	73	7	600
Gas, Process and apparatus for manufacture of illuminating.....	M. W. Kidder.....	168,904	Oct. 19, 1875	564	{ 184 185 186 187 188 }	8	660
Gas, Process and apparatus for manufacture of illuminating.....	T. W. Lion.....	167,844	Sept. 21, 1875	441	141	8	484
Gas, Process and apparatus for manufacture of illuminating.....	W. H. St. John.....	161,073	Mar. 23, 1875	768	253	7	480
Gas, Process and apparatus for manufacture of illuminating or heating.....	T. S. C. Lowe.....	167,847	Sept. 21, 1875	444	{ 141 142 }	8	484
Gas, Process and apparatus for manufacturing.....	A. C. Rand.....	166,409	Aug. 3, 1875	211	64	8	228
Gas, Process for manufacture of illuminating.....	F. H. Eichbaum.....	164,822	June 22, 1875	935	.....	7	1084
Gas, Process of manufacturing illuminating.....	F. H. Eichbaum and A. G. Hunter.....	166,352	Aug. 3, 1875	151	.....	8	221
Gas-purifier.....	J. D. Patton.....	162,851	May 4, 1875	105	34	7	761
Gas-purifier.....	G. H. Wells.....	163,706	May 25, 1875	38	298	7	900
Gas-purifiers, Tray or screen for coal.....	A. J. Tewksbury.....	161,296	Mar. 23, 1875	982	321	7	507
Gas-purifying apparatus.....	O. Braun.....	165,785	July 20, 1875	641	197	8	121
Gas-purifying boxes, Lime-supporting tray for.....	G. W. Day.....	164,078	June 8, 1875	234	81	7	974
Gas-regulating apparatus.....	C. F. Jacobsen and G. M. Murphy.....	169,549	Nov. 2, 1875	210	69	8	763
Gas-regulator.....	J. Adams.....	167,488	Sept. 7, 1875	92	29	8	419
Gas-regulator.....	J. Anderson.....	159,139	Jan. 26, 1875	770	253	7	152
Gas-regulator.....	J. H. Bean.....	168,444	Oct. 5, 1875	109	37	8	581
Gas-regulator.....	M. C. Fisher.....	161,941	Apr. 13, 1875	322	108	7	625
Gas-regulator.....	A. Hickenlooper.....	160,430	Mar. 2, 1875	154	54	7	370
Gas-regulator.....	S. S. Ingalls.....	163,014	May 11, 1875	276	89	7	791
Gas-regulator.....	D. P. Mayhew.....	163,937	June 1, 1875	82	28	7	942
Gas-regulator.....	G. McMillan.....	171,236	Dec. 21, 1875	579	190	8	1042
Gas-regulator.....	A. Parsons.....	158,389	Jan. 5, 1875	32	11	7	13
Gas-regulator.....	R. M. Potter and W. W. Thomas.....	162,685	Apr. 27, 1875	1038	331	7	731
Gas-regulator.....	W. H. Pounds.....	162,948	May 4, 1875	197	64	7	773
Gas-regulator.....	I. Rehn.....	163,255	May 11, 1875	498	162	7	819
Gas-regulator.....	S. C. Salisbury.....	158,527	Jan. 5, 1875	155	52	7	31
Gas-regulator.....	D. Sloan.....	162,703	Apr. 27, 1875	1057	337	7	733
Gas-regulator.....	D. Sloan.....	162,704	Apr. 27, 1875	1057	337	7	733
Gas-regulator.....	F. W. Wiesebeck.....	158,767	Jan. 12, 1875	380	129	7	77
Gas-regulator.....	F. W. Wiesebeck.....	159,731	Eeb. 9, 1875	460	154	7	256
Gas-regulator.....	F. W. Wiesebeck.....	159,732	Feb. 9, 1875	461	154	7	256
Gas-regulator diaphragms, Treating leather for.....	R. J. Pintsch.....	162,947	May 4, 1875	196	.....	7	773
Gas-retort.....	W. W. Goodwin.....	159,816	Feb. 16, 1875	560	186	7	274
Gas-retort.....	W. Harkness.....	161,410	Mar. 30, 1875	1109	359	7	532
Gas-retort.....	S. P. Parham.....	158,515	Jan. 5, 1875	146	49	7	29
Gas-retort.....	S. S. Putnam.....	162,309	Apr. 20, 1875	663	{ 216 217 }	7	676
Gas-retort.....	W. Smith.....	163,818	May 25, 1875	1034	327	7	914
Gas-retort.....	J. C. Tiffany.....	164,658	June 1, 1875	192	69	7	957
Gas-retort.....	W. F. Weible.....	161,369	Mar. 30, 1875	1067	347	7	526
Gas-retort charger.....	J. West.....	160,490	Mar. 2, 1875	211	73	7	379
Gas, Retort for the manufacture of illuminating.....	D. L. MacNeill.....	160,470	Mar. 9, 1875	446	148	7	421
Gas-retort furnace.....	D. Davison.....	161,212	Mar. 23, 1875	894	293	7	497
Gas-retort lid.....	H. Collison.....	169,960	Nov. 16, 1875	641	200	8	833
Gas-retort mouth-piece.....	P. Munzinger.....	166,131	July 27, 1875	992	306	8	182
Gas-retorts, Mouth-piece lid for.....	S. A. Thomas.....	161,716	Apr. 6, 1875	106	38	7	584
Gas-retorts, Process and apparatus for decarbonizing.....	D. Davison.....	169,628	Nov. 9, 1875	303	98	8	783
Gas-retorts, Process for cleansing.....	H. S. Wolf.....	165,398	July 6, 1875	245	.....	8	42
Gas-retorts, Process of forming a tight joint between the mouth-piece and lid of.....	N. Janin.....	169,001	Oct. 19, 1875	653	215	8	673
Gas, Scrubber and condenser for illuminating.....	W. H. White.....	165,141	June 29, 1875	1236	398	7	1131
Gas-shade support.....	T. F. McGann.....	168,761	Oct. 11, 1875	426	139	8	633
Gas, Treating hydrocarbons for making.....	H. H. Edgerton.....	159,655	Feb. 9, 1875	390	130	7	246
Gas-washing machinery.....	T. K. Lees.....	168,906	Oct. 19, 1875	572	188	8	661
Gas-works, Tar-gate for hydraulic mains in.....	J. M. Slaney.....	168,191	Sept. 28, 1875	780	248	8	540
Gas-wrench.....	S. B. H. Vance.....	161,182	Mar. 23, 1875	870	285	7	493
Gases, Apparatus for hydrating.....	B. H. Jenks.....	165,837	July 20, 1875	700	213	8	128
Gases or liquids under pressure, Vessel for containing.....	J. Matthews.....	159,433	Feb. 2, 1875	173	59	7	208
Gasalier, Drop-light.....	J. Fox.....	169,430	Nov. 2, 1875	101	31	8	748
Gasalier, Extension.....	E. Russell.....	162,694	Apr. 27, 1875	1045	333	7	732
Gasalier, Extension or drop-light.....	J. H. Seaman.....	167,697	Sept. 14, 1875	291	92	8	454
Gaseous fuel, Process and apparatus for generating.....	A. Ponsard.....	163,247	May 11, 1875	490	{ 159 160 }	7	818
Gasometers, System of gearing for.....	J. C. Tiffany.....	163,548	May 18, 1875	789	250	7	873
Gate: See Automatic gate. Sliding gate. Canal-lock gate. Sluice-gate. End-gate. Swinging gate. Farm-gate. Vehicle end-gate. Lifting-gate. Wagon end-gate. Railway-crossing gate. Water-wheel gate. Registering-gate.							
Gate.....	L. C. Cohn.....	165,792	July 20, 1875	649	199	8	122
Gate.....	J. A. Knepper.....	169,449	Nov. 2, 1875	115	37	8	751
Gate.....	M. S. McSwain.....	158,384	Jan. 5, 1875	28	10	7	12
Gate.....	C. C. Redmond and H. H. Rhodes.....	167,567	Sept. 7, 1875	164	52	8	429
Gate-fastening.....	W. Leach.....	168,754	Oct. 11, 1875	421	137	8	632
Gate-latch.....	J. Vetterlein.....	170,033	Nov. 16, 1875	701	221	8	842
Gateway.....	S. L. Fisher.....	164,986	June 29, 1875	1101	353	7	1112
Gear-cutting attachment.....	W. Krutzsch.....	166,705	Aug. 17, 1875	512	157	8	288
Gear-wheel molds, Machine for forming.....	J. Clayton.....	161,385	Mar. 30, 1875	1087	352	7	329

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Gearing	H. L. Gordon	160, 181	Feb. 23, 1875	902	297	7	328
Gelatine from salted fish-skins, Process of extracting	J. S. Rogers	167, 123	Aug. 24, 1875	920		8	355
Gems, Setting	T. W. Fry	165, 722	July 20, 1875	583	179	8	113
Gems, Setting	H. G. Mackinney	167, 457	Sept. 7, 1875	68	21	8	416
Generator:							
See Gas-generator.	Steam-generator.						
Soda-water generator.							
Gilding-machine	W. Braidwood	162, 892	May 4, 1875	140	46	7	765
Gilding, Passe-partout base for	H. McHugh	162, 404	Apr. 20, 1875	759	.....	7	687
Glass:							
See Eyeglass.	Toilet-glass.						
Glass and furnace therefor, Tempering	F. B. A. R. de la Bastie	169, 783	Nov. 9, 1875	466	{ 147 148 }	8	803
Glass-annealing oven	T. B. Atterbury	164, 632	June 22, 1875	758	249	7	1061
Glass articles, Mold for and process of manufacturing	T. B. Atterbury	159, 061	Jan. 26, 1875	703	231	7	142
Glass-cutter, Steel	H. H. Clark	166, 684	Aug. 17, 1875	494	151	8	286
Glass-furnace	J. Nicholson, jr.	171, 241	Dec. 21, 1875	584	192	8	1043
Glass, Method of ornamenting	T. Jones	159, 418	Feb. 2, 1875	159	54	7	206
Glass, Method of producing etchings on	E. Dalleinne	164, 720	June 22, 1875	842	.....	7	1072
Glass-mold	B. Bakewell, jr.	159, 062	Jan. 26, 1875	704	231	7	143
Glass, &c., mold	A. P. Brooke	164, 517	June 15, 1875	648	210	7	1037
Glass-mold	H. Franz	170, 839	Dec. 7, 1875	164	55	8	972
Glass-mold	J. H. Hobbs and C. W. Brockunier	162, 233	Apr. 20, 1875	597	196	7	668
Glass-mold	W. C. King and A. Sperber	162, 480	Apr. 27, 1875	853	274	7	708
Glass-molds, Detachable plate for	G. Storm	163, 276	May 11, 1875	519	168	7	822
Glass plates, Apparatus for beveling	J. V. Laurent	159, 518	Feb. 9, 1875	283	91	7	230
Glass-press	W. Beck	162, 791	May 4, 1875	54	17	7	754
Glass pressing and molding machine	A. P. Brooke	162, 894	May 4, 1875	143	46	7	766
Glass, &c., Process for ornamenting surfaces of	J. H. and C. W. Crane	161, 760	Apr. 6, 1875	146	.....	7	590
Glass, Process of annealing	J. M. Brookfield	170, 339	Nov. 23, 1875	1008	.....	8	891
Glass, Process of decorating	J. Budd	169, 412	Nov. 2, 1875	85	.....	8	746
Glass spheres, Method of blowing	F. Rhind	169, 479	Nov. 2, 1875	142	46	8	754
Glass-tool	T. Carr	168, 371	Oct. 5, 1875	48	17	8	571
Glass-working apparatus	B. F. Chase	161, 861	Apr. 13, 1875	248	82, 83	7	616
Glassware, Covered	T. B. Atterbury	159, 628	Feb. 9, 1875	363	121	7	243
Glassware, Device for removing the blow-over from	W. Adams	170, 798	Dec. 7, 1875	131	43	8	968
Glassware, Hollow-pressed	W. Leighton, jr.	159, 519	Feb. 9, 1875	283	91	7	231
Glassware, Manufacture of	A. A. Adams	162, 330	Apr. 20, 1875	683	223	7	678
Glassware, Manufacture of	T. B. Atterbury	170, 218	Nov. 23, 1875	900	281	8	875
Glassware, Manufacture of	C. W. Bruckner	162, 216	Apr. 20, 1875	579	190	7	665
Glassware, Manufacture of	J. C. Gill	167, 608	Sept. 14, 1875	217	67	8	443
Glassware, Manufacture of	J. H. Hobbs	169, 103	Oct. 26, 1875	775	252	8	697
Glassware, Manufacture of	W. C. King	163, 787	May 25, 1875	1007	319	7	910
Glassware-mold	B. Bakewell, jr.	170, 464	Nov. 30, 1875	1139	359	8	917
Glassware-mold	J. H. and M. Smith	163, 539	May 18, 1875	781	247	7	872
Glazier's diamond	P. Sinsz	167, 575	Sept. 7, 1875	172	54	8	430
Glazier's points, Machine for cutting	J. M. Jay	171, 286	Dec. 21, 1875	627	205	8	1049
Globe	E. E. Fitz	158, 581	Jan. 12, 1875	217	74	7	55
Globe for schools, Geographical	N. N. Browne	169, 950	Nov. 16, 1875	635	197	8	832
Globe-holder	J. White	162, 731	Apr. 27, 1875	1090	345	7	737
Globe-stand	C. G. Durant	171, 472	Dec. 28, 1875	806	266	8	1081
Globe, Terrestrial	M. McVicar	168, 514	Oct. 5, 1875	177	57	8	589
Glove	J. Fouillon	166, 270	Aug. 3, 1875	78	24	8	210
Glove	W. Meyer	164, 578	June 15, 1875	700	228	7	1045
Glove and mitten, Husking	H. L. Hall	168, 836	Oct. 19, 1875	505	165	8	652
Glove clasp or fastener	I. Lewine	163, 219	May 11, 1875	463	150	7	815
Glove-fastening	S. W. Glenn	163, 764	May 25, 1875	988	313	7	907
Glove, Gauntlet	J. W. Latcher and M. E. Dunham	169, 451	Nov. 2, 1875	117	37	8	751
Glove-stretcher	D. S. Hayward	165, 096	June 29, 1875	1199	385	7	1126
Gloves, Manufacture of	G. S. Hewitt	162, 474	Apr. 27, 1875	848	272	7	707
Glucose, Manufacture of	W. Garton	166, 090	July 27, 1875	953	.....	8	176
Glue-cup	H. Meyer	158, 961	Jan. 19, 1875	588	195	7	120
Glue-cutting apparatus	H. Stevens	168, 801	Oct. 11, 1875	460	150	8	637
Glue-drier	A. H. Sandholzer	158, 391	Jan. 5, 1875	34	12	7	13
Glue-drier	S. T. Swazey	160, 797	Mar. 16, 1875	525	169	7	438
Glue-joint-making machine	O. C. Barnes	162, 600	Apr. 27, 1875	955	307	7	721
Glue-pot	T. C. Howes	163, 203	May 11, 1875	452	146	7	813
Glue-pot furnace	T. C. Howes	168, 998	Oct. 19, 1875	652	215	8	672
Glue, Process for preparing and drying	H. Stevens	168, 802	Oct. 11, 1875	461	150	8	637
Gold and silver ores, Apparatus for roasting	R. M. Fryer	170, 625	Nov. 30, 1875	1292	408	8	937
Gold, Extracting	F. W. Dähne	159, 647	Feb. 9, 1875	379	.....	7	245
Gold from other metals, Separating	C. Wiegand	168, 695	Oct. 11, 1875	364	120	8	624
Gold from sand, Apparatus for separating	T. W. Irvin	166, 009	July 27, 1875	874	269	8	164
Gold-leaf, Method of booking	J. Varley	163, 424	May 18, 1875	669	.....	7	858
Gold, silver, &c., from their ores, Collecting	M. Laffin	161, 129	Mar. 23, 1875	825	.....	7	487
Gold, silver, &c., Solution for cleaning	G. M. Norwood	167, 192	Aug. 31, 1875	1006	.....	8	374
Gold-washer	J. S. Calvert	171, 597	Dec. 28, 1875	927	304	8	1098
Gold washer and separator	B. Tyson	168, 116	Sept. 28, 1875	710	224	8	529
Gong-attachment, Engine-house	R. Bragg	165, 438	July 13, 1875	309	91	8	58
Gong, Street-car, &c.	B. P. Fennell	161, 109	Mar. 23, 1875	808	265	7	485
Gong, Street-car	W. Guilfoyle	169, 356	Nov. 2, 1875	35	10	8	739
Goods in bulk, Apparatus for transferring	L. Dathis	159, 566	Feb. 9, 1875	319	104	7	236
Goods, packages, &c., Apparatus for transmission of	D. Brown	165, 473	July 13, 1875	345	101	8	62
Gophers, squirrels, &c., Making poisonous composition for destroying	J. G. Steele	168, 935	Oct. 19, 1875	596	.....	8	665
Governor	D. L. F. Chase	162, 219	Apr. 20, 1875	582	191	7	666
Governor	J. Felber	167, 883	Sept. 21, 1875	479	151	8	489
Governor	W. D. Marks	164, 745	June 22, 1875	863	281	7	1075
Governor and cut-off, Steam-engine	M. D. Miller	169, 719	Nov. 9, 1875	399	125	8	795
Governor, Electric-motor	A. MacConnel	166, 471	Aug. 10, 1875	291	87	8	248
Governor, Electrical marine-engine	C. C. Wolcott	168, 548	Oct. 5, 1875	212	69	8	594
Governor, Engine	J. W. Mathieson	168, 165	Sept. 23, 1875	760	240	8	537
Governor, Engine	H. S. Maxim	165, 744	July 20, 1875	601	185	8	116
Governor for hot-air furnaces, Automatic	S. Kepner	162, 662	Apr. 27, 1875	1009	323	7	727

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Governor, Marine-engine.....	E. W. Briggs and A. V. De Pew..	169,141	Oct. 26, 1875	809	262	8	702
Governor, Marine-engine.....	J. Everding.....	168,147	Sept. 28, 1875	743	234	8	534
Governor, Steam.....	D. L. F. Chase.....	160,572	Mar. 9, 1875	296	100	7	400
Governor, Steam.....	J. Judson and W. A. Cogswell...	169,815	Nov. 9, 1875	498	156	8	807
Governor, Steam.....	W. Mein.....	165,851	July 20, 1875	713	217	8	130
Governor, Steam.....	M. Muchin.....	159,955	Feb. 16, 1875	686	227	7	291
Governor, Steam-engine.....	F. M. Brown.....	159,299	Feb. 2, 1875	51	19	7	191
Governor, Steam-engine.....	T. M. Corbett and H. Campbell..	167,225	Aug. 31, 1875	1034	321	8	377
Governor, Steam-engine.....	J. C. Hoadley.....	164,917	June 29, 1875	1043	336	7	1105
Governor, Steam-engine.....	J. Judson and W. A. Cogswell...	160,774	Mar. 16, 1875	502	163	7	435
Governor, Steam-engine.....	A. Kendall.....	163,662	May 25, 1875	903	287	7	896
Governor, Steam-engine.....	G. L. McCahan.....	162,401	Apr. 20, 1875	757	246	7	627
Governor, Steam-engine.....	F. M. Merrill.....	164,859	June 22, 1875	969	313	7	1088
Governor, Steam-engine.....	N. E. Nash.....	168,914	Oct. 19, 1875	579	191	8	662
Governor, Steam-engine.....	G. C. Sims.....	164,942	June 29, 1875	1067	344	7	1108
Governor, Steam-engine.....	T. I. Walsh.....	162,873	May 4, 1875	124	41	7	763
Governor, Steam-engine.....	G. Westinghouse, jr.....	162,782	May 4, 1875	43	14	7	752
Governor, Steam-engine.....	J. D. Willoughby.....	162,446	Apr. 20, 1875	799	260	7	692
Governor, Water-wheel.....	A. Woodworth.....	161,084	Mar. 23, 1875	779	256	7	481
Governor, Water-wheel.....	E. Wright.....	169,073	Oct. 19, 1875	723	239	8	682
Governor, Water-wheel and hydraulic.....	F. G. Hesse.....	161,035	Mar. 23, 1875	734	241	7	476
Grading apparatus.....	E. Church.....	163,849	June 1, 1875	13	4	7	932
Grading apparatus.....	J. McGavin.....	159,594	Feb. 9, 1875	339	112	7	239
Grain and straw lifter.....	D. Crane.....	160,576	Mar. 9, 1875	298	101	7	400
Grain, Apparatus for storing and preserving.....	H. P. C. Lassen.....	171,290	Dec. 21, 1875	631	206	8	1049
Grain-band.....	C. L. Travis.....	160,972	Mar. 16, 1875	671	219	7	458
Grain-binder.....	J. F. Appleby.....	171,465	Dec. 28, 1875	799	263	8	1081
Grain-binder.....	J. J. Atwater.....	170,617	Nov. 30, 1875	1284	406	8	936
Grain-binder.....	S. D. Carpenter.....	158,465	Jan. 5, 1875	98	34	7	23
Grain-binder.....	C. F. Carr and S. S. Wilcox.....	162,899	May 4, 1875	147	47, 48	7	766
Grain-binder.....	C. E. Donnellan.....	167,997	Sept. 21, 1875	563	181	8	503
Grain-binder.....	J. Garrard.....	169,251	Oct. 26, 1875	905	293	8	715
Grain-binder.....	J. Garrard.....	169,252	Oct. 26, 1875	905	294	8	715
Grain-binder.....	J. F. Gordon.....	163,480	May 18, 1875	724	230	7	865
Grain-binder.....	J. F. Gordon.....	169,258	Oct. 26, 1875	911	296	8	716
Grain-binder.....	M. L. Gorham.....	159,506	Feb. 9, 1875	264	86, 87	7	229
Grain-binder.....	J. M. Groover.....	159,176	Jan. 26, 1875	804	263	7	157
Grain-binder.....	S. S. Jackman.....	169,360	Nov. 2, 1875	38	11	8	740
Grain-binder.....	F. P. Rosback.....	169,043	Oct. 19, 1875	695	229	8	678
Grain-binder.....	C. L. Travis.....	160,732	Mar. 9, 1875	437	145	7	420
Grain-binder.....	J. H. Whitney.....	163,830	May 25, 1875	1043	331	7	915
Grain-binder.....	J. H. Whitney.....	168,120	Sept. 28, 1875	714	225	8	530
Grain-binding implement.....	W. A. Patterson.....	160,705	Mar. 9, 1875	414	138	7	417
Grain-binding machine.....	A. W. Tucker.....	169,743	Nov. 9, 1875	423	134	8	798
Grain-cleaner.....	T. Bühlmann.....	167,297	Aug. 31, 1875	1095	343	8	386
Grain-cleaner brush.....	G. E. Throop.....	160,243	Feb. 23, 1875	957	314	7	337
Grain-conveyer.....	H. W. Caldwell.....	164,715	June 22, 1875	838	272	7	1071
Grain-conveyer.....	H. Severn.....	162,955	May 4, 1875	206	66	7	774
Grain-conveyer.....	N. G. Simonds.....	169,662	Nov. 9, 1875	341	108	8	787
Grain-conveyer.....	W. Stanton.....	160,479	Mar. 2, 1875	199	68, 69	7	377
Grain-conveyer shaft.....	H. I. P. F., and F. D. Chase.....	170,711	Dec. 7, 1875	53	16	8	958
Grain-crible.....	J. W. Settle.....	158,745	Jan. 12, 1875	360	123	7	75
Grain-crushing machine.....	C. C. Washburn.....	161,185	Mar. 23, 1875	872	286	7	493
Grain-decorticator.....	S. Dodson.....	169,426	Nov. 2, 1875	97	30	8	748
Grain-decorticator.....	W. Seck.....	166,416	Aug. 3, 1875	219	66	8	229
Grain-distributor.....	J. Walker.....	162,591	Apr. 27, 1875	947	304	7	720
Grain-drill.....	W. Aldrich.....	166,739	Aug. 17, 1875	547	168	8	293
Grain-drill.....	W. Brown.....	159,638	Feb. 9, 1875	372	123	7	244
Grain-drill.....	J. C. Daman.....	164,151	June 8, 1875	296	101	7	982
Grain-drill.....	J. C. Daman.....	170,241	Nov. 23, 1875	924	287	8	878
Grain-drill.....	J. King.....	158,716	Jan. 12, 1875	338	115	7	72
Grain-drill.....	B. Kuhns.....	160,829	Mar. 16, 1875	550	179	7	442
Grain-drill.....	J. T. Lynam.....	166,997	Aug. 24, 1875	803	249	8	338
Grain-drill.....	E. D. Mead.....	165,015	June 29, 1875	1125	363	7	1116
Grain-drill.....	C. E. Patric and J. S. Bogle.....	168,918	Oct. 19, 1875	582	192	8	663
Grain drill and planter.....	H. Reutchler and E. M. Morgan.....	164,482	June 15, 1875	619	200	7	1033
Grain-drill feed-wheel.....	B. Kuhns.....	161,688	Apr. 6, 1875	85	30	7	581
Grain-drill feeding mechanism.....	A. J. Martin.....	169,561	Nov. 2, 1875	221	72, 73	8	764
Grain-drill feeding mechanism.....	E. Morgan.....	169,283	Oct. 26, 1875	935	303	8	719
Grain-drill teeth.....	G. L. Ives.....	166,779	Aug. 17, 1875	580	178	8	298
Grain-drill teeth.....	I. B. Sandusky.....	161,445	Mar. 30, 1875	1139	367	7	536
Grain-drills, Force-feed apparatus for.....	W. Aldrich.....	166,678	Aug. 17, 1875	488	149	8	285
Grain-drier.....	H. H. Beach.....	159,014	Jan. 26, 1875	664	217	7	137
Grain-drier.....	A. Nash.....	168,101	Sept. 28, 1875	696	220	8	528
Grain-drier.....	J. Souter.....	167,797	Sept. 14, 1875	385	123	8	468
Grain-elevator.....	E. Korting.....	168,029	Sept. 21, 1875	600	191	8	508
Grain-elevator.....	J. S. Metcalf.....	164,577	June 15, 1875	699	227	7	1044
Grain-elevator.....	C. W. Mills.....	166,023	July 27, 1875	886	274	8	167
Grain for grinding, Preparing.....	A. Bertelsen and M. Martens.....	163,139	May 11, 1875	390	126	7	806
Grain-fork.....	F. Gerfen.....	166,201	Aug. 3, 1875	17	6	8	201
Grain hulling and cleaning machine.....	T. Wallace and G. W. Hyde.....	161,367	Mar. 30, 1875	1065	346	7	526
Grain hulling and scouring machine.....	L. S. Chichester.....	159,080	Jan. 26, 1875	721	238	7	145
Grain-hulling machine.....	C. Schaschue.....	159,461	Feb. 2, 1875	208	67	7	213
Grain-meter.....	W. Colwell.....	166,593	Aug. 10, 1875	391	121	8	262
Grain-meter.....	B. M. Pulliam.....	170,965	Dec. 14, 1875	298	99	8	997

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Grain preparatory to grinding, Moistening.....	W. M. Kennedy.....	159,100	Jan. 26, 1875	739		7	148
Grain-sampler.....	F. A. Furst.....	160,416	Mar. 2, 1875	142	50	7	369
Grain-scourer.....	M. D. Beardslee.....	162,213	Apr. 20, 1875	577	189	7	065
Grain-scourer.....	D. M. Richardson.....	158,740	Jan. 12, 1875	357	122	7	74
Grain-scourer.....	T. Wallace.....	161,368	Mar. 30, 1875	1066	346	7	526
Grain scouring and decorticating machine.....	W. P. Robinson.....	169,589	Nov. 2, 1875	251	82	8	768
Grain-separator.....	C. F. Butterfield.....	170,936	Dec. 14, 1875	266	89	8	993
Grain-separator.....	D. H. Caswell.....	170,816	Dec. 7, 1875	145	48, 49	8	970
Grain-separator.....	W. S. Clymans.....	160,750	Mar. 16, 1875	476	156	7	432
Grain-separator.....	W. S. Clymans.....	165,544	July 13, 1875	409	122	8	73
Grain-separator.....	A. B. Farquhar.....	166,354	Aug. 3, 1875	152	47	8	221
Grain-separator.....	A. W. Gray.....	166,456	A'g. 10, 1875	279	83	8	246
Grain-separator.....	L. W. Hasselman.....	171,222	Dec. 21, 1875	568	187	8	1041
Grain-separator.....	T. J. Hubbell.....	159,414	Feb. 2, 1875	156	53	7	206
Grain-separator.....	J. W. Johnson.....	165,931	July 27, 1875	802	246	8	155
Grain-separator.....	W. W. Johnston.....	170,376	Nov. 23, 1875	1040	326	8	895
Grain separator.....	M. D. Judkins.....	159,581	Feb. 9, 1875	328	108	7	238
Grain-separator.....	A. W. Kendrick.....	166,532	Aug. 10, 1875	339	104	8	255
Grain-separator.....	E. Knapp.....	162,292	Apr. 20, 1875	649	212	7	674
Grain-separator.....	W. M. Koppes.....	160,105	Feb. 23, 1875	839	276	7	320
Grain-separator.....	H. Kurth.....	163,213	May 11, 1875	459	148	7	814
Grain-separator.....	H. Kurth.....	163,214	May 11, 1875	459	149	7	815
Grain-separator.....	J. B. Lobdell and M. F. Bartlett.....	162,669	Apr. 27, 1875	1019	326	7	728
Grain-separator.....	J. H. Locke.....	160,022	Feb. 23, 1875	769	254	7	309
Grain-separator.....	H. Meilke.....	168,659	Oct. 11, 1875	339	110	8	620
Grain-separator.....	C. B. Nichols.....	170,584	Nov. 30, 1875	1251	394	8	932
Grain-separator.....	M. O'Brien.....	161,147	Mar. 23, 1875	842	274	7	489
Grain-separator.....	H. Ogborn and T. T. Kendrick.....	163,516	May 18, 1875	761	241	7	870
Grain-separator.....	M. C. Rider and G. W. Reynolds.....	163,530	May 18, 1875	774	245	7	871
Grain-separator.....	L. C. Royer.....	167,570	Sept. 7, 1875	167	53	8	430
Grain-separator.....	H. H. Seeley.....	165,373	July 6, 1875	212	64	8	37
Grain-separator.....	L. Theobald.....	171,066	Dec. 14, 1875	389	129	8	1009
Grain-separator.....	W. Toepfer.....	161,179	Mar. 23, 1875	868	284	7	493
Grain-separator.....	W. E. Torley.....	166,826	Aug. 17, 1875	620	192	8	304
Grain-separator.....	P. Warner.....	158,549	Jan. 5, 1875	172	58, 59	7	33
Grain-separator.....	O. K. Wood.....	160,561	Mar. 9, 1875	287	97	7	399
Grain-shock-compressing machine.....	S. C. Minear.....	166,624	Aug. 10, 1875	420	130	8	266
Grain-steaming apparatus.....	J. C. Hunt.....	167,837	Sept. 21, 1875	435	138	8	483
Grain-steaming apparatus.....	M. H. Steele.....	163,340	May 18, 1875	599	{ 191 } 192	7	849
Grain-tally.....	A. K. Munson.....	165,021	June 29, 1875	1129	365	7	1116
Grain-tester.....	W. J. Gard and N. Staughton.....	170,545	Nov. 30, 1875	1214	382	8	927
Grain thrasher and separator.....	D. Lippy.....	160,689	Mar. 9, 1875	398	134	7	415
Grain, Unloading and dumping.....	J. B. Whitcomb.....	160,984	Mar. 16, 1875	682	224	7	460
Grain-vessel, Marine.....	W. and J. Inglis.....	162,074	Apr. 13, 1875	430	143	7	639
Graining plate frame.....	R. A. Adams.....	170,695	Dec. 7, 1875	39	11	8	956
Graining-roller.....	W. H. Burns.....	165,708	July 20, 1875	570	174	8	111
Graining-roller.....	A. J. Taplin.....	164,056	June 1, 1875	191	69	7	957
Graining wood, Process of.....	G. F. Mehling.....	164,858	June 22, 1875	968	.....	7	1088
Grape and flower picker.....	L. B. Snow.....	160,360	Mar. 2, 1875	91	34	7	362
Grappe.....	G. Conkling.....	162,801	May 4, 1875	61	20	7	755
Grass and bristles, Machine for combing and cutting.....	J. Pickering.....	158,650	Jan. 12, 1875	281	94	7	63
Grass-seed cleaner, Blue.....	J. W. Wilcox and R. L. Dejarnatt.....	163,037	May 11, 1875	301	97	7	794
Grate.....	J. E. Baum.....	163,974	July 27, 1875	840	{ 258 } 259	8	160
Grate.....	J. A. Buckwalter.....	169,411	Nov. 2, 1875	84	26	8	746
Grate.....	J. Byington.....	160,813	Mar. 16, 1875	537	174	7	440
Grate.....	J. E. Crea.....	168,325	Oct. 5, 1875	10	3	8	566
Grate.....	M. G. Fagan.....	170,835	Dec. 7, 1875	161	54	8	972
Grate.....	C. C. Gates.....	164,161	June 8, 1875	305	104	7	983
Grate.....	J. Habermehl.....	167,609	Sept. 14, 1875	217	68	8	444
Grate.....	W. A. Holbrook.....	163,012	May 11, 1875	275	89	7	791
Grate.....	S. Kepner.....	159,271	Feb. 2, 1875	27	9	7	188
Grate.....	J. B. Larkin.....	158,719	Jan. 12, 1875	341	116	7	72
Grate.....	A. Richmond.....	158,741	Jan. 12, 1875	358	122	7	74
Grate.....	J. Schroeffel, jr.....	170,306	Nov. 23, 1875	979	307	8	886
Grate.....	J. D. Slichter.....	158,750	Jan. 12, 1875	363	124	7	75
Grate.....	J. D. Slichter.....	159,361	Feb. 2, 1875	109	38	7	199
Grate.....	E. Stimson.....	158,393	Jan. 5, 1875	36	13	7	14
Grate.....	J. H. Swartout and A. L. Whedon.....	160,553	Mar. 9, 1875	279	95	7	398
Grate.....	J. Harrington and J. Forrester.....	165,279	July 6, 1875	121	37	8	25
Grate.....	J. C. Weightman.....	159,871	Feb. 16, 1875	609	202	7	281
Grate.....	G. Wellhouse.....	170,612	Nov. 30, 1875	1279	403	8	935
Grate.....	J. W. Williams.....	158,556	Jan. 5, 1875	178	61, 62	7	34
Grate and stove front.....	J. Old.....	168,771	Oct. 11, 1875	435	141	8	634
Grate-bar.....	T. Cain.....	167,153	Aug. 31, 1875	974	303	8	369
Grate-bar.....	W. C. Childs.....	168,615	Oct. 11, 1875	297	96	8	614
Grate-bar.....	W. C. Childs.....	170,817	Dec. 7, 1875	147	49	8	970
Grate-bar.....	A. W. Cram.....	161,485	Mar. 30, 1875	1180	379	7	541
Grate-bar.....	A. W. Cram.....	161,758	Apr. 6, 1875	144	50	7	590
Grate-bar.....	W. Farris.....	167,087	Aug. 24, 1875	888	277	8	350
Grate-bar.....	T. Murphy.....	169,655	Nov. 9, 1875	333	{ 105 } 106	8	786
Grate-bar.....	G. D. Putnam.....	161,899	Apr. 13, 1875	285	96	7	621
Grate-bar.....	H. Ryder.....	167,126	Aug. 24, 1875	922	287	8	355
Grate-bar.....	E. N. Schmitz.....	167,571	Sept. 7, 1875	169	53	8	430
Grate-bar.....	J. A. Sinclair.....	164,401	June 15, 1875	546	179	7	1024
Grate-bar.....	G. W. Todd.....	168,684	Oct. 11, 1875	356	116	8	623
Grate-bar.....	S. Van Syckel.....	166,951	Aug. 24, 1875	754	233	8	331
Grate bar, Furnace.....	J. Clark.....	163,975	June 1, 1875	112	38	7	946
Grate bar, Furnace.....	E. M. Erdman.....	167,230	Aug. 31, 1875	1039	323	8	378
Grate bar, Furnace.....	C. Toope.....	158,757	Jan. 12, 1875	370	126	7	76
Grate-bar, Hollow.....	W. L. Gregg.....	164,729	June 22, 1875	850	276	7	1073
Grate, Fire-place.....	J. Bawden.....	167,426	Sept. 7, 1875	45	13	8	412
Grate, Fire-place.....	G. W. Cummings.....	164,150	June 8, 1875	295	101	7	982

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Grate for cooking-ranges, Drop	J. E. Baum	164, 670	June 22, 1875	792	260	7	1065
Grate for generating gas for fuel	Z. S. Durfee	167, 078	Aug. 24, 1875	875	273	8	348
Grate for ranges and stoves	W. L. McDowell	162, 487	Apr. 27, 1875	860	276	7	708
Grate for steam-generators, Furnace	A. Winton	168, 075	Sept. 21, 1875	657	209	8	515
Grate-frame	H. M. Creamer	158, 472	Jan. 5, 1875	108	36	7	24
Grate, Furnace	H. W. Granger	169, 259	Oct. 26, 1875	914	296	8	716
Grate, Furnace	C. H. Harrison	162, 064	Apr. 13, 1875	423	141	7	638
Grate, Furnace	C. Knoblauch	159, 186	Jan. 26, 1875	817	268	7	158
Grate, Furnace	J. B. Larkin	170, 571	Nov. 30, 1875	1236	390	8	930
Grate, Furnace	S. J. La Rue	165, 740	July 20, 1875	598	184	8	116
Grate, Furnace	O. H. P. Little and F. J. Heuber	166, 391	Aug. 3, 1875	193	58	8	226
Grate, Furnace	G. R. Moore	165, 943	July 27, 1875	813	249	8	156
Grate, Furnace	J. Old	168, 770	Oct. 11, 1875	433	141	8	634
Grate, Furnace	W. Tinkham	166, 487	Aug. 10, 1875	304	91	8	249
Grate, Heating-stove	C. G. Marshall	159, 693	Feb. 9, 1875	427	143	7	251
Grate, Oyster-range	C. H. Carling	166, 965	Aug. 24, 1875	771	238	8	333
Grate, Parlor	G. W. Walker	160, 856	Mar. 16, 1875	569	185	7	444
Grate, Shaking	J. Mahony	160, 272	Mar. 2, 1875	16	7	7	351
Grate, Shutter	F. S. Bissell	164, 418	June 15, 1875	565	183	7	1026
Grate, Stove	N. A. Boynton	171, 091	Dec. 14, 1875	410	136	8	1013
Grate, Stove	J. W. Collins	165, 983	July 27, 1875	850	262	8	161
Grate, Stove	W. B. Hosford	169, 544	Nov. 2, 1875	204	68	8	762
Grate, Stove	A. N. Houssee	161, 790	Apr. 6, 1875	171	59	7	594
Grate, Stove	G. R. Moore	171, 483	Dec. 28, 1875	820	269	8	1083
Grate, Stove	J. Moore, jr.	165, 020	June 29, 1875	1129	364	7	1116
Grate, Stove	H. P. Ohm	163, 800	May 25, 1875	1020	323	7	912
Grate, Stove	J. D. Slichter	159, 360	Feb. 2, 1875	108	37	7	199
Grate, Stove	W. Walsh	160, 370	Mar. 2, 1875	99	36	7	363
Grate, Stove	J. Young	162, 136	Apr. 13, 1875	489	162	7	646
Grate, Stove, furnace, &c	W. Stout	161, 911	Apr. 13, 1875	294	99	7	622
Grater, Culinary	E. Woodward	165, 143	June 29, 1875	1238	398	7	1132
Grave, coffin, and monument, Combined	L. M. Speers and A. Clark	165, 267	July 6, 1875	113	34	8	24
Grave-cover	R. H. Sipes	165, 622	July 13, 1875	482	146	8	83
Grave-cover and monument	R. H. Sipes	160, 622	Mar. 9, 1875	339	114	7	406
Graves, Dumping device for filling	J. W. Vannice	170, 649	Nov. 30, 1875	1312	414	8	940
Gridiron	J. H. Mitchell	158, 858	Jan. 19, 1875	486	163	7	107
Grinding and amalgamating pan	C. Cummings	168, 621	Oct. 11, 1875	302	98	8	615
Grinding-apparatus	C. Van Haagen	159, 723	Feb. 9, 1875	453	151	7	255
Grinding-machine	E. Morris	164, 583	June 15, 1875	704	229	7	1045
Grinding-machine	W. J. Reagan	162, 687	Apr. 27, 1875	1039	332	7	731
Grinding machine, Tool	M. L. Mowrer	169, 829	Nov. 9, 1875	512	161	8	808
Grinding-mill	G. Selsor	167, 573	Sept. 7, 1875	170	54	8	430
Grinding-wheel	J. W. and I. S. Hyatt	165, 234	July 6, 1875	84	.....	8	20
Grinding-wheel	H. M. Putnam and W. Esty	164, 692	June 22, 1875	814	266	7	1068
Grindstone-frame	G. A. Whitney	168, 694	Oct. 11, 1875	363	119	8	624
Grindstones, Mold for forming artificial	G. Hart	167, 527	Sept. 7, 1875	132	40	8	424
Grist-alarm	N. Bruner	168, 963	Oct. 19, 1875	621	206	8	669
Grist-alarm	D. T. Williams	170, 614	Nov. 30, 1875	1281	404	8	936
Guano-distributor	J. T. Horton	171, 285	Dec. 21, 1875	626	205	8	1049
Guard:							
See Chimney-guard.	Key-hole guard.						
Harness-check guard.	Loom-shuttle guard.						
Harvester-guard.	Sewing-machine thread-guard.						
Harvester-seat guard.							
Hatchway-guard.							
Guide-roller for endless aprons	J. Parr	169, 573	Nov. 2, 1875	233	76	8	766
Gun-barrel covering	H. A. Silver	166, 642	Aug. 10, 1875	437	135	8	269
Gun barrel, Shot	J. B. Tubbs	161, 300	Mar. 23, 1875	986	322	7	508
Gun-carriage	M. M. Franzini	170, 840	Dec. 7, 1875	165	56	8	972
Gun-carriage	N. E. Johnsen	160, 100	Feb. 23, 1875	835	274	7	319
Gun carriage, Field	W. B. Franklin and C. B. Richards	161, 219	Mar. 23, 1875	906	296	7	498
Gun-cleaner	W. H. Mansir	158, 851	Jan. 19, 1875	480	161	7	106
Gun dart, Air	H. M. Quackenbush	159, 354	Feb. 2, 1875	103	36	7	198
Gun feed-case, Machine	D. C. Farrington	163, 922	June 1, 1875	69	23	7	940
Gun-lock	L. L. Hepburn	162, 473	Apr. 27, 1875	848	272	7	707
Gun-lock	J. O. Scott	168, 188	Sept. 28, 1875	778	247	8	539
Gun, Machine	D. C. Farrington	165, 318	July 6, 1875	161	48, 49	8	30
Gun, Machine	W. B. Farwell	169, 686	Nov. 9, 1875	364	115	8	790
Gun-sight	W. M. Treadway	168, 941	Oct. 19, 1875	600	199	8	666
Gun-stocks, Machine for checking	J. A. Blake	165, 404	July 13, 1875	275	81	8	53
Gun-stocks, Recoil-check for	W. D. Miller	169, 465	Nov. 2, 1875	131	42	8	753
Gun wad, Rifled	G. Schalek	169, 734	Nov. 9, 1875	413	131	8	796
Guns, Adjustable rest for the arm while firing	R. T. Hare	167, 169	Aug. 31, 1875	988	307	8	371
Guns, Reamer for shot	F. A. Deland	161, 214	Mar. 23, 1875	896	294	7	497
Gunpowder, Manufacture of	H. Courteille	167, 503	Sept. 7, 1875	105	.....	8	421
Gunpowder, Manufacture of	E. Greene	160, 053	Feb. 23, 1875	796	.....	7	313
Gymnastic apparatus	H. C. Carley	159, 301	Feb. 2, 1875	52	19	7	192
H.							
Hair-cloth, Filling-hook for weaving	J. Turpie	164, 949	June 29, 1875	1072	345	7	1108
Hair-crimping pin	M. Gardner	168, 388	Oct. 5, 1875	61	22	8	573
Hair-curling device	C. W. Baxter	162, 603	Apr. 27, 1875	957	307	7	721
Hair-cutter's gage	A. G. Wilkins	159, 004	Jan. 19, 1875	629	208	7	125
Hair-dressing machine	O. M. Brown and W. R. Vaughan	168, 964	Oct. 19, 1875	630	206	8	669
Hair-heading machine	E. Hough	170, 951	Dec. 14, 1875	281	95	8	995
Hair-holder	E. J. Inesly	159, 578	Feb. 9, 1875	326	107	7	237
Hair-picker	C. A. Teal	166, 824	Aug. 17, 1875	618	191	8	304
Hair-switch	A. R. Smith	170, 497	Nov. 30, 1875	1170	369	8	921
Halls, Means for preventing reverberations in public	W. B. Carlock	165, 916	July 27, 1875	782	240	8	153
Halter and bridle	J. McKibben	168, 841	Oct. 19, 1875	508	167	8	653

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Halter-clamp	F. F. Drinkhouse	166,082	July 27, 1875	943	291	8	174
Halter-fastening	J. Thornton	170,207	Nov. 23, 1875	892	278	8	874
Halter, Rope	L. C. Chase	166,683	Aug. 17, 1875	493	150	8	285
Halter-strap holder or fastener	A. and S. L. Hagney	164,551	June 15, 1875	678	220	7	1041
Hame	A. F. Davis	170,530	Nov. 30, 1875	1198	378	8	925
Hame	J. G. Eberhard	163,368	May 18, 1875	623	199	7	852
Hame	W. A. Henson	164,085	June 8, 1875	241	83	7	975
Hame	G. J. Letchworth	170,177	Nov. 23, 1875	866	270	8	870
Hame	J. D. L. Nunnelee and W. H. Kirksey	165,249	July 6, 1875	99	29	8	22
Hame	S. Shultz	168,793	Oct. 11, 1875	454	148	8	637
Hame	J. Thornton	170,208	Nov. 23, 1875	893	279	8	874
Hame	J. Thornton	170,209	Nov. 23, 1875	893	279	8	874
Hame and collar, Combined	T. C. Love	168,756	Oct. 11, 1875	422	138	8	632
Hame and horse-collar, Combined	E. Stroud	163,950	June 1, 1875	93	32	7	944
Hame attachment	J. H. Myers and S. Spicer	158,860	Jan. 19, 1875	488	164	7	107
Hame-coupling	J. H. Carlisle	170,521	Nov. 30, 1875	1190	375	8	924
Hame-fastener	O. M. Coburn	158,628	Jan. 12, 1875	259	88	7	60
Hame-fastener	A. J. Park	169,572	Nov. 2, 1875	233	76	8	766
Hame-fastener	S. Spicer	166,902	Aug. 17, 1875	695	215	8	314
Hame-fastener	H. J. Wilson	164,893	June 22, 1875	1002	323	7	1092
Hame-fastening	W. H. Ward	162,980	May 4, 1875	230	74	7	777
Hame, Harness	J. P. Clopton	167,305	Aug. 31, 1875	1101	346	8	388
Hame, Harness	A. H. Cresap, jr	165,067	June 29, 1875	1171	377	7	1122
Hame-top	E. G. Latta	164,096	June 8, 1875	250	86	7	976
Hame-top	E. G. Latta	170,176	Nov. 23, 1875	865	270	8	870
Hames, Attachment of bells to	M. F. Boland	158,463	Jan. 5, 1875	97	33	7	23
Hammer, Blacksmith's forging	A. J. Judson	164,180	June 8, 1875	324	110	7	986
Hammer, Bush	C. Littlefield	164,193	June 8, 1875	332	113	7	987
Hammer, Drop	H. Hammond	161,954	Apr. 13, 1875	332	111	7	627
Hammer, Drop	C. Lusted	170,868	Dec. 7, 1875	188	64	8	976
Hammer, Drop	F. A. Pratt	164,392	June 15, 1875	536	176	7	1023
Hammer, Drop	N. C. Stiles	160,483	Mar. 2, 1875	202	70	7	378
Hammer-eyes, Die for forming	J. Pinkerton	164,326	June 8, 1875	460	152	7	1003
Hammer, Steam	S. D. Wilson	162,439	Oct. 5, 1875	103	36	8	580
Hammers, Lifting device for drop	C. O. Wilder	171,458	Dec. 21, 1875	777	257	8	1069
Hand-rest	E. F. French	159,254	Feb. 2, 1875	11	4	7	186
Hand-rest, Accountant's	W. D. Sloan	165,885	July 20, 1875	743	227	8	135
Handcuff	G. P. Houston	169,443	Nov. 2, 1875	111	35	8	750
Handkerchief-holder	H. G. Mackinney	165,940	July 27, 1875	809	248	8	156
Handle:							
See Auger-handle.	Saw-handle.						
Broom-handle.	Shawl or carriage strap handle.						
Brush-handle.	Shawl-strap handle.						
Casket-handle.	Stove-door handle.						
Coffin-handle.	Tea-kettle handle.						
Cutlery-handle.	Tea-pot handle.						
Drag-rake handle.	Tool-handle.						
Lantern-handle.	Umbrella-handle.						
Milk-can handle.	Valise-handle.						
Package-strap handle.	Vessel-handle.						
Peg-cutter handle.	Wash-boiler handle.						
Pen-handle.							
Sad-iron handle.							
Hanger:							
See Broom-hanger.	Shaft-hanger.						
Door-hanger.	Steam and gas pipe hanger.						
Eave-trough hanger.	Tobacco-hanger.						
Picture-hanger.							
Picture-frame hanger.							
Hanging or portable fountain	F. I. Shafer	171,437	Dec. 21, 1875	759	250	8	1067
Harmonicon, Key-board	G. Rimbach	168,847	Oct. 19, 1875	514	168	8	653
Harness	W. H. B. Diehl	168,625	Oct. 11, 1875	309	169	8	616
Harness	G. W. Hoover	159,927	Feb. 16, 1875	661	218	7	288
Harness-check guard	F. Howard	167,836	Sept. 21, 1875	434	138	8	483
Harness-clip	F. Conway	160,751	Mar. 16, 1875	477	156	7	432
Harness-cockeye	J. J. Schneider and A. S. Meek	168,054	Sept. 21, 1875	628	201	8	512
Harness, Elastic back-band for	J. W. Hollis	169,994	Nov. 16, 1875	669	210	8	837
Harness, Fire-engine, &c	E. O. Sullivan	171,190	Dec. 14, 1875	507	167	8	1025
Harness-hanging frame	X. Whiting	159,730	Feb. 9, 1875	459	153	7	256
Harness-knife	A. Friderick	163,062	May 11, 1875	324	104	7	797
Harness-mounting	C. M. Theberath	167,040	Aug. 24, 1875	837	261	8	343
Harness-mounting with leather. Process of covering.	J. Feder	169,158	Oct. 26, 1875	824	267	8	704
Harness-pad	R. M. Selleck	171,324	Dec. 21, 1875	657	216	8	1052
Harness-pad press	W. Dippert	168,381	Oct. 5, 1875	55	20	8	572
Harness-rosette	S. S. Sargeant	170,021	Nov. 16, 1875	693	218	8	840
Harness-snap	C. E. Haynes	160,266	Mar. 2, 1875	10	5	7	350
Harness-snap	L. Humbert	161,338	Mar. 30, 1875	1038	338	7	523
Harness-snap	E. Kempshall	166,783	Aug. 17, 1875	583	179	8	298
Harness-tree	W. P. Wolington	158,817	Jan. 19, 1875	450	150	7	102
Harrow	J. S. Beazell	166,061	July 27, 1875	919	284	8	171
Harrow	C. Brodrick	164,713	June 22, 1875	836	272	7	1071
Harrow	C. Buswell	163,736	May 25, 1875	967	306	7	904
Harrow	J. Chamberlain and H. H. Seiple	165,790	July 20, 1875	647	199	8	122
Harrow	A. W. Davis	165,480	July 13, 1875	352	103	8	63
Harrow	L. Francisco	166,763	Aug. 17, 1875	565	174	8	296
Harrow	W. Frank	169,798	Nov. 9, 1875	485	152	8	805
Harrow	J. B. Greene	167,449	Sept. 7, 1875	61	19	8	415
Harrow	I. N. Harbaugh	167,896	Sept. 21, 1875	488	154	8	491
Harrow	I. W. Hutchin	166,528	Aug. 10, 1875	336	103	8	254
Harrow	S. G. Jones	165,736	July 20, 1875	595	182	8	115

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Harrow	J. Mastern	165, 108	June 29, 1875	1208	389	7	1127
Harrow	W. T. McGhee	160, 929	Mar. 16, 1875	633	207	7	453
Harrow	L. H. McGinnis	168, 762	Oct. 11, 1875	427	139	8	633
Harrow	J. McPherson	162, 295	Apr. 20, 1875	651	213	7	675
Harrow	H. Meili	170, 637	Nov. 30, 1875	1304	411	8	939
Harrow	W. H. Parlin	165, 753	July 20, 1875	609	188	8	117
Harrow	G. H. Pounder	162, 306	Apr. 20, 1875	660	216	7	676
Harrow	J. W. Price	167, 932	Sept. 21, 1875	513	164	8	495
Harrow	J. Rieth	164, 484	June 15, 1875	620	201	7	1033
Harrow	A. Ross	164, 042	June 1, 1875	176	63	7	955
Harrow	W. S. Rowland	167, 359	Aug. 31, 1875	1149	361	8	394
Harrow	C. W. Strombeck	162, 205	Apr. 20, 1875	569	187	7	664
Harrow	L. Study	166, 156	July 27, 1875	1016	313	8	185
Harrow	A. H. Whiteside	163, 428	May 18, 1875	671	215	7	858
Harrow	J. C. Williams	168, 311	Sept. 28, 1875	885	282	8	554
Harrow and cultivator, Combined	J. W. Dilley	167, 879	Sept. 21, 1875	474	150	8	489
Harrow and cultivator, Combined	W. McCray	167, 002	Aug. 24, 1875	807	251	8	329
Harrow and planter	B. Butler	159, 073	Jan. 26, 1875	714	235	7	144
Harrow and roller	A. M. Strattan	161, 838	Apr. 6, 1875	229	74	7	600
Harrow and roller, Combined	W. R. Downing	159, 163	Jan. 26, 1875	791	260	7	155
Harrow and sower	R. H. Hudgens	166, 381	Aug. 3, 1875	183	55	8	224
Harrow, Combined revolving and drag	J. T. Henderson	158, 374	Jan. 5, 1875	20	7	7	11
Harrow, Convertible revolving	B. G. Devoe and G. R. Mease	171, 217	Dec. 21, 1875	562	185	8	1040
Harrow, Corn	J. McCormick	164, 013	June 1, 1875	146	52	7	951
Harrow, Disk	S. G. Randall	163, 527	May 18, 1875	772	244	7	871
Harrow-handle, Adjustable	S. D. Riegel	166, 299	Aug. 3, 1875	104	33	8	214
Harrow-hook	J. D. Tracy and J. F. Platt	171, 197	Dec. 14, 1875	522	172	8	1027
Harrow, Revolving	J. Phillips	161, 057	Mar. 23, 1875	753	248	7	478
Harrow, Riding	E. E. Leach	159, 690	Feb. 9, 1875	424	142	7	251
Harrow, Rotary	W. G. Read	165, 948	July 27, 1875	818	251	8	157
Harrow, Sully	J. Kimball	160, 335	Mar. 2, 1875	70	25	7	359
Harrow, Sully	D. F. Shaw	166, 033	July 27, 1875	895	276	8	168
Harrow-teeth	H. M. Williams	169, 324	Oct. 26, 1875	976	316	8	725
Harrow, Wheel	F. Bramer	171, 092	Dec. 14, 1875	411	137	8	1013
Harrow, Wheel	T. A. Cole	169, 623	Nov. 9, 1875	298	96	8	782
Harrow, Wheel	J. S. Snively	167, 703	Sept. 14, 1875	296	94	8	455
Harrows, Cotton-planting attachment to	S. H. Wade	160, 975	Mar. 16, 1875	673	220	7	458
Harvester	T. P. Benton	158, 825	Jan. 19, 1875	457	153	7	103
Harvester	H. H. Bridenthall	164, 799	June 22, 1875	910	295	7	1081
Harvester	J. O. Brown	170, 228	Nov. 23, 1875	910	284	8	876
Harvester	J. O. Brown	170, 229	Nov. 23, 1875	912	284	8	876
Harvester	J. E. Buxton	168, 609	Oct. 11, 1875	290	94, 95	8	613
Harvester	J. M. Chrillon	169, 088	Oct. 26, 1875	763	247	8	695
Harvester	G. H. Clark	158, 908	Jan. 19, 1875	537	179	7	113
Harvester	A. J. Cook	167, 387	Sept. 7, 1875	6	2	8	407
Harvester	J. P. Delseseaux	170, 438	Nov. 30, 1875	1115	351	8	914
Harvester	C. Denton	168, 326	Oct. 5, 1875	10	4	8	566
Harvester	J. H. Elward	161, 395	Mar. 30, 1875	1094	355	7	530
Harvester	J. H. Elward	161, 396	Mar. 30, 1875	1096	356	7	530
Harvester	J. H. Elward	165, 316	July 6, 1875	157	47, 48	8	30
Harvester	J. S. Fowler	167, 519	Sept. 7, 1875	124	38	8	423
Harvester	A. Gordon, J. H. Myers, G. Telford, and M. G. Hubbard	166, 605	Aug. 10, 1875	403	124	8	264
Harvester	M. L. Gorham	160, 895	Mar. 16, 1875	602	196	7	449
Harvester	B. Illingworth	162, 927	May 4, 1875	172	57, 58	7	770
Harvester	J. H. Kirton	162, 929	May 4, 1875	175	58, 59	7	770
Harvester	C. W. Levalley	161, 132	Mar. 23, 1875	828	271	7	488
Harvester	C. W. Levalley	169, 275	Oct. 26, 1875	927	301	8	718
Harvester	C. Lidren	168, 653	Oct. 11, 1875	333	108	8	619
Harvester	S. S. Loudenslager	161, 530	Mar. 30, 1875	1224	394	7	547
Harvester	J. P. Manny	166, 017	July 27, 1875	881	272	8	166
Harvester	J. P. Manny	166, 018	July 27, 1875	882	272	8	166
Harvester	L. J. McCormick	170, 388	Nov. 23, 1875	1053	330	8	897
Harvester	R. H. McCormick	168, 271	Sept. 23, 1875	851	271	8	549
Harvester	C. K. Myers	159, 604	Feb. 9, 1875	346	115	7	240
Harvester	A. Palmer	168, 578	Oct. 11, 1875	262	86	8	609
Harvester	H. Porter	162, 858	May 4, 1875	112	36, 37	7	762
Harvester	J. M. Rosebrook	165, 362	July 6, 1875	205	62	8	37
Harvester	C. D. Shrader	160, 845	Mar. 16, 1875	561	182	7	443
Harvester	C. S. Stickle, W. P. Parker, and J. D. Moore	163, 275	May 11, 1875	517	163	7	822
Harvester	S. S. Stultz	164, 055	June 1, 1875	189	68	7	956
Harvester	J. B. Webster, W. A. Dorr, and M. McClenathan	165, 280	July 6, 1875	122	38	8	26
Harvester	C. Wheeler, jr	165, 460	July 13, 1875	330	97, 98	8	61
Harvester	F. F. White	163, 123	May 11, 1875	374	122	7	804
Harvester	W. M. Whitely	169, 874	Nov. 9, 1875	556	174	8	814
Harvester	J. H. Whitney	170, 140	Nov. 16, 1875	805	254	8	855
Harvester	W. A. Wood	159, 879	Feb. 16, 1875	618	204	7	282
Harvester and thrasher, Broom-corn	R. C. Hinton	158, 632	Jan. 12, 1875	269	91	7	62
Harvester, Bean	W. C. Barber and G. Amis	162, 139	Apr. 20, 1875	510	168	7	657
Harvester, Clover	C. R. Hardy	158, 795	Jan. 19, 1875	430	144	7	100
Harvester, Corn	E. J. Blood and A. D. Hager	169, 946	Nov. 16, 1875	632	196	8	832
Harvester, Corn	W. T. Orr	161, 149	Mar. 23, 1875	843	275	7	489
Harvester, Corn	C. R. Reed	166, 633	Aug. 10, 1875	423	132	8	268
Harvester, Corn	G. A. Swartz	164, 111	June 8, 1875	253	90	7	977
Harvester, Corn	J. Townsend and J. N. Parr	170, 315	Nov. 23, 1875	986	309	8	887
Harvester, Corn	W. N. West	159, 990	Feb. 16, 1875	720	239	7	295
Harvester, Corn and cane	T. Morrell	165, 171	July 6, 1875	29	8, 9	8	12

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Harvester, Cotton	L. K. Miller	159, 109	Jan. 26, 1875	747	246	7	149
Harvester-cutter	T. R. Arnold	164, 958	June 29, 1875	1080	347	7	1109
Harvester-cutter	E. J. Blood and A. D. Hager	158, 462	Jan. 5, 1875	97	33	7	23
Harvester-cutter	R. Dutton	164, 434	June 15, 1875	580	188	7	1028
Harvester-cutter	P. Howell	170, 565	Nov. 30, 1875	1232	388	8	930
Harvester-cutter	G. J. E., and M. Vanfossen	161, 078	Mar. 23, 1875	773	255	7	481
Harvester-dropper	J. Bahruth	167, 149	Aug. 31, 1875	968	301	8	369
Harvester-dropper	T. McDonough	165, 454	July 13, 1875	326	95	8	60
Harvester-dropper	J. C. Ratliff and J. W. Towle	168, 670	Oct. 11, 1875	347	113	8	622
Harvester-dropper	C. Wheeler, jr	159, 875	Feb. 16, 1875	613	203	7	281
Harvester finger-bar	V. N. Collins	164, 676	June 22, 1875	798	261	7	1066
Harvester-frame journal	W. A. Wood	158, 559	Jan. 5, 1875	180	62, 63	7	34
Harvester-gearing	J. F. Seiberling	168, 930	Oct. 19, 1875	592	195	8	664
Harvester, Grain-binding	S. D. Carpenter	158, 466	Jan. 5, 1875	100	34	7	23
Harvester grain-wheel arm	C. H. Salzman	169, 924	Nov. 16, 1875	614	190	8	829
Harvester-guards, Die for swaging	J. H. Seiberling	158, 810	Jan. 19, 1875	443	148	7	101
Harvester, Hemp	W. F. Cochrane	158, 909	Jan. 19, 1875	538	179	7	113
Harvester, Journal-bearing	E. F. Herrington	159, 758	Feb. 16, 1875	505	169	7	267
Harvester-knife head	G. W. Harrison	169, 696	Nov. 9, 1875	378	119	8	792
Harvester pitman-connection	A. Rea	168, 415	Oct. 5, 1875	86	30	8	577
Harvester-rake	J. F. Appleby	162, 002	Apr. 13, 1875	368	124	7	632
Harvester-rake	J. Barnes	168, 959	Oct. 19, 1875	615	204	8	668
Harvester-rake	H. H. Bridenthal, jr	170, 433	Nov. 30, 1875	1110	349	8	913
Harvester-rake	J. R. Buckwalter	159, 387	Feb. 2, 1875	129	45	7	202
Harvester-rake	S. F. Cranston	170, 435	Nov. 30, 1875	1112	350	8	913
Harvester-rake	E. H. Felt	159, 808	Feb. 16, 1875	553	184	7	273
Harvester-rake	M. F. Gibbs	161, 220	Mar. 23, 1875	908	297	7	499
Harvester-rake	P. F. Hodges	170, 086	Nov. 16, 1875	757	239	8	849
Harvester-rake	J. H. Kirton	159, 936	Feb. 16, 1875	669	222	7	289
Harvester-rake	J. S. Marsh	164, 926	June 29, 1875	1052	339	7	1106
Harvester-rake	J. P. Monnett	161, 540	Mar. 30, 1875	1234	397	7	548
Harvester-rake	D. S. Morgan and T. Motley	159, 276	Feb. 2, 1875	30	10, 11	7	188
Harvester-rake	J. H. Myers	162, 405	Apr. 20, 1875	760	247	7	688
Harvester-rake	A. Palmer	161, 981	Apr. 13, 1875	353	118	7	629
Harvester-rake	M. Ray	168, 526	Oct. 5, 1875	187	61	8	591
Harvester-rake	C. Wheeler, jr	163, 708	May 25, 1875	939	298	7	901
Harvester-rake	W. N. Whiteley	161, 723	Apr. 6, 1875	112	40, 41	7	585
Harvester-rake	W. N. Whiteley	170, 613	Nov. 30, 1875	1280	404	8	935
Harvester-rake	J. H. Whitney	163, 831	May 25, 1875	1045	331	7	915
Harvester-rake	J. H. Whitney	169, 936	Nov. 16, 1875	623	193	8	831
Harvester-rake	W. A. Wood	163, 127	May 11, 1875	379	123	7	804
Harvester-rake, Rotating sliding	R. Brown and A. Hoover	169, 651	Nov. 16, 1875	635	197	8	832
Harvester-reel	J. F. Black	164, 795	June 22, 1875	904	294	7	1080
Harvester-reel	D. S. Fulton	159, 316	Feb. 2, 1875	74	25	7	194
Harvester-reel	G. G. Read	160, 061	Feb. 23, 1875	806	264	7	314
Harvester-reel	J. F. Seiberling	169, 048	Oct. 19, 1875	702	232	8	679
Harvester-reel	F. Wyman	162, 329	Apr. 20, 1875	682	222	7	678
Harvester reel and rake combined	A. Stoler	171, 188	Dec. 14, 1875	503	166	8	1025
Harvester-reel rake	R. C. Taylor	170, 971	Dec. 14, 1875	305	101	8	998
Harvester safety-seat	W. E. Mattison	165, 424	July 13, 1875	292	87	8	55
Harvester-seat	C. Wheeler, jr., and H. J. Case	163, 287	May 11, 1875	531	172	7	824
Harvester-seat guard	E. Hale, jr	170, 554	Nov. 30, 1875	1222	384	8	928
Harvester sheaf-dropper	S. G. King	160, 270	Mar. 2, 1875	14	6	7	351
Harvester sickle-head	M. M. Shellabarger	159, 970	Feb. 16, 1875	699	233	7	293
Harvester sway-bar guide	W. R. Baker	170, 804	Dec. 7, 1875	136	45	8	969
Harvester-wheel	M. L. and J. M. Kellar	161, 966	Apr. 13, 1875	342	115	7	628
Harvester-wheel	G. D. Rowell	160, 546	Mar. 9, 1875	274	93	7	397
Harvester, &c., Wheel	B. G. Turner	158, 758	Jan. 12, 1875	370	126	7	76
Harvesters, Shock-carriage attachment to	J. O. Brown	170, 230	Nov. 23, 1875	913	284	8	877
Harvesting-machine	J. O. Brown	170, 231	Nov. 23, 1875	914	284	8	877
Harvesting-machine	W. M. and G. H. Howe	171, 021	Dec. 14, 1875	345	115	8	1004
Harvesting-machines, &c., Connecting gear-wheels with shafts for use in	J. M. Rosebrook	159, 221	Jan. 26, 1875	848	277	7	163
Harvesting-machines, Pitman-holder for	C. Wheeler, jr	162, 328	Apr. 20, 1875	682	222	7	678
Hasp	F. W. Smith and F. Egge	160, 723	Mar. 9, 1875	431	143	7	419
Hasp-fastening	W. McConway	162, 486	Apr. 27, 1875	859	276	7	708
Hasp-lock	J. Lachler	166, 014	July 27, 1875	878	271	8	165
Hat	J. Case	162, 530	Apr. 27, 1875	896	286	7	713
Hat	A. A. Richardson	164, 036	June 1, 1875	170	60	7	954
Hat	C. Sinclair	167, 029	Aug. 24, 1875	829	258	8	342
Hat and cap	P. Goldmann	160, 666	Mar. 9, 1875	376	127	7	412
Hat and cap	M. Isidor and F. Hein	165, 100	June 29, 1875	1202	386	7	1126
Hat and cap	M. Isidor and F. Hein	167, 538	Sept. 7, 1875	141	43	8	426
Hat and coat hook	C. Schoenbein	166, 815	Aug. 17, 1875	612	189	8	302
Hat and coat hook	C. H. Winton	166, 576	Aug. 10, 1875	376	116	8	260
Hat and fur box	J. C. Budd	167, 985	Sept. 21, 1875	553	178	8	501
Hat-block	F. R. Going	159, 088	Jan. 26, 1875	727	240	7	146
Hat-blocking machine	E. C. Fales	167, 086	Aug. 24, 1875	887	277	8	350
Hat-bodies, Machine for forming	W. H. Croke	167, 746	Sept. 14, 1875	333	107	8	460
Hat-bodies, Machine for forming	J. Gill	164, 544	June 15, 1875	670	217	7	1040
Hat-bodies, Machine for stretching	R. Eickemeyer	168, 731	Oct. 11, 1875	399	130	8	629
Hat-bodies, Machine for stretching	J. G. Meeker	168, 272	Sept. 28, 1875	352	271	8	549
Hat-bodies, Machine for stretching	J. E. Wells	169, 663	Nov. 9, 1875	343	108	8	787
Hat-bodies, Machine for stretching	G. Yule	165, 400	July 6, 1875	247	74	8	42
Hat-bodies, Machine for stretching the tips of	F. C. Taylor	161, 992	Apr. 13, 1875	362	121	7	631
Hat-box	G. L. Jaeger	160, 680	Mar. 9, 1875	387	131	7	413
Hat-brims, Curling	A. Freshfield	160, 091	Feb. 23, 1875	828	272	7	318
Hat-brushing machine	A. S. Joyce	162, 390	Apr. 20, 1875	744	242	7	686
Hat-brushing machine	S. P. Siver and G. H. Swords	167, 945	Sept. 21, 1875	523	167	8	497
Hat-fastening	C. R. Blackwood	163, 913	June 1, 1875	63	21	7	939
Hat-frames, Binding and wiring	R. F. S. Heath	159, 926	Feb. 16, 1875	660	218	7	288
Hat-holder for seats	C. Shaw and B. Yeager	162, 109	Apr. 13, 1875	466	154	7	643

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Hat-iron.....	C. E. Ball.....	159,379	Feb. 2, 1875	123	43	7	201
Hat-pouncing machine.....	R. Eickemeyer.....	159,912	Feb. 16, 1875	648	215	7	286
Hat-pouncing roll.....	J. Nutt.....	168,175	Sept. 28, 1875	766	243	8	538
Hat-pressing machine.....	M. A. Cuming.....	167,506	Sept. 7, 1875	108	34	8	422
Hat, Reversible.....	L. Girbardt.....	159,916	Feb. 16, 1875	651	216	7	287
Hat shaping and blocking machine.....	R. Eickemeyer.....	167,083	Aug. 24, 1875	880	275 276	8	349
Hat-stiffening machine.....	G. B. Fuller.....	166,764	Aug. 17, 1875	566	174	7	296
Hat-stiffening process.....	R. Eickemeyer.....	167,513	Sept. 7, 1875	115	36	8	423
Hat-stretching machine.....	R. Eickemeyer.....	162,540	Apr. 27, 1875	905	289	7	714
Hat-stretching machine.....	R. Eickemeyer.....	167,391	Sept. 7, 1875	11	3	8	408
Hat-ventilator.....	J. B. Dillaway.....	171,103	Dec. 14, 1875	422	140	8	1014
Hat-ventilator.....	N. I. Rees.....	170,450	Nov. 30, 1875	1125	354	8	915
Hats, Composition for stiffening and dressing straw.....	E. Torlotin.....	169,063	Oct. 19, 1875	713	.....	8	681
Hatter's sizing-plank.....	M. F. Johnson.....	165,735	July 20, 1875	594	182	8	115
Hatch closing and indicating apparatus.....	D. Moore.....	161,429	Mar. 30, 1875	1126	364	7	534
Hatchet.....	J. A. Thayer.....	170,972	Dec. 14, 1875	306	102	8	999
Hatchet-claws, Die for forming.....	J. Palmer.....	163,399	May 18, 1875	651	208	7	855
Hatchet, Shingling.....	H. K. W. Perry.....	169,836	Nov. 9, 1875	520	162	8	809
Hatchway.....	C. M. Dalsen.....	167,993	Sept. 21, 1875	559	180	8	502
Hatchway-brace.....	J. Fleming.....	168,630	Oct. 11, 1875	314	102	8	616
Hatchway-guard.....	J. C. Foster.....	162,466	Apr. 27, 1875	840	270	7	706
Hatchway-guard.....	J. C. Foster.....	166,692	Aug. 17, 1875	500	153	8	286
Hatchway-guard.....	W. Muir.....	169,025	Oct. 19, 1875	679	223 224	8	676
Hatchway safety-guard.....	E. Schlenker.....	162,195	Apr. 20, 1875	561	184	7	663
Hatchway, Self-closing.....	J. Fenson.....	165,554	July 13, 1875	416	125	8	74
Hatchway, Self-closing.....	S. Lawrence.....	158,424	Jan. 5, 1875	62	22	7	18
Hatchway, Self-closing.....	D. Moore.....	163,509	May 18, 1875	753	239	7	869
Hatchway, Self-closing.....	W. Muir.....	169,026	Oct. 19, 1875	680	224	8	676
Hay and cotton press.....	W. C. Banks.....	158,884	Jan. 19, 1875	509	170 171	7	110
Hay and cotton press.....	H. K. Burnett.....	161,201	Mar. 23, 1875	885	291	7	496
Hay and cotton press.....	B. J. Day.....	160,579	Mar. 9, 1875	300	102	7	401
Hay and cotton press.....	J. L. De Witt.....	165,076	June 29, 1875	1179	379	7	1123
Hay and cotton press.....	W. A. Wright.....	159,736	Feb. 9, 1875	467	156	7	257
Hay and cotton press, Horizontal.....	T. B. Bennett and E. J. Rancier.....	160,143	Feb. 21, 1875	870	288	7	324
Hay and grain elevator.....	T. Powell.....	162,307	Apr. 20, 1875	661	216	7	676
Hay and straw press.....	L. Kirk.....	164,922	June 29, 1875	1047	337	7	1105
Hay-conveyor.....	W. M. Conner and W. I. Rouse.....	163,461	May 18, 1875	701	224	7	862
Hay, cotton, and wool press.....	W. H. McBurney.....	164,748	June 22, 1875	865	281 282	7	1075
Hay-derrick.....	H. J. Hay.....	163,193	May 11, 1875	444	143	7	812
Hay-elevator.....	E. V. R. Gardner.....	161,114	Mar. 23, 1875	813	266	7	486
Hay-elevator.....	J. Jones.....	162,389	Apr. 20, 1875	744	242	7	685
Hay-elevator.....	C. S. Kershaw.....	158,379	Jan. 5, 1875	24	8	7	12
Hay-elevator.....	G. W. Martin and J. C. Moor.....	159,430	Feb. 2, 1875	170	58	7	208
Hay-elevator dog.....	J. R. Fitzhous.....	171,114	Dec. 14, 1875	431	143	8	1015
Hay-elevators, Adjustable lock and dog for.....	J. R. Fitzhous.....	170,945	Dec. 14, 1875	275	92	8	995
Hay-fork.....	M. M. Cherry.....	169,417	Nov. 2, 1875	90	27	8	747
Hay-fork.....	J. P. Friest.....	166,694	Aug. 17, 1875	502	153	8	287
Hay-fork, Horse.....	T. M. Edwards.....	165,989	July 27, 1875	855	263	8	162
Hay-fork, Horse.....	J. H. Fletcher.....	169,688	Nov. 9, 1875	372	116	8	791
Hay-fork, Horse.....	E. V. R. Gardner.....	161,404	Mar. 30, 1875	1104	357	7	531
Hay-fork, Horse.....	E. Raber.....	169,919	Nov. 16, 1875	609	189	8	829
Hay-fork, Horse.....	O. Taber.....	169,740	Nov. 9, 1875	419	133	8	797
Hay-fork, Spiral.....	A. Shellenberger.....	166,152	July 27, 1875	1013	312	8	185
Hay-gatherer.....	C. P. Noell.....	159,605	Feb. 9, 1875	347	115	7	241
Hay-gatherer.....	P. Russell.....	166,560	Aug. 10, 1875	364	111	8	258
Hay gathering and elevating apparatus.....	A. J. Park.....	167,926	Sept. 21, 1875	509	162	8	494
Hay-knife.....	R. Kellogg.....	165,841	July 20, 1875	704	214	8	129
Hay-loader.....	P. L. Craig.....	162,221	Apr. 20, 1875	584	191	7	666
Hay-loader.....	H. V. Hawkins.....	159,264	Feb. 2, 1875	22	7	7	187
Hay-loader.....	F. Marion.....	160,023	Feb. 23, 1875	770	254	7	369
Hay-loader.....	G. E. and A. S. Peck.....	171,484	Dec. 28, 1875	821	269	8	1083
Hay-loader.....	E. Perry and A. J. Manley.....	170,189	Nov. 23, 1875	875	274	8	872
Hay-loader.....	L. Underwood.....	160,556	Mar. 9, 1875	281	96	7	398
Hay-loader.....	E. R. Whitney.....	165,902	July 20, 1875	759	232	8	137
Hay-loader.....	C. M. Young.....	170,796	Dec. 7, 1875	129	43	8	968
Hay, Mechanism for unloading.....	W. H. Haynes.....	168,330	Oct. 5, 1875	14	5	8	566
Hay-press.....	J. Dugan.....	161,871	Apr. 13, 1875	260	87	7	617
Hay-press.....	W. H. Penniston.....	164,476	June 15, 1875	614	199	7	1032
Hay-press.....	H. E. Skillin.....	159,713	Feb. 9, 1875	445	149	7	254
Hay-press.....	C. Waste.....	160,976	Mar. 16, 1875	674	220	7	459
Hay-press, Portable.....	M. McCarty.....	170,636	Nov. 30, 1875	1303	411	8	939
Hay-rack.....	J. Hall.....	164,731	June 22, 1875	852	276	7	1073
Hay-rake, Horse.....	W. Aldrich.....	169,328	Nov. 2, 1875	2	1	8	735
Hay-rake, Horse.....	W. S. Archer.....	160,993	Mar. 23, 1875	697	230	7	471
Hay-rake, Horse.....	G. Barclay and J. Kennedy.....	168,552	Oct. 11, 1875	235	77	8	605
Hay-rake, Horse.....	G. Barclay and J. Kennedy.....	168,553	Oct. 11, 1875	236	78	8	605
Hay-rake, Horse.....	A. Bugbee.....	161,590	Apr. 6, 1875	4	2	7	569
Hay-rake, Horse.....	S. H. Bushnell.....	160,387	Mar. 2, 1875	114	41, 42	7	365
Hay-rake, Horse.....	A. W. Coates.....	158,471	Jan. 5, 1875	107	36	7	24
Hay-rake, Horse.....	B. J. Downing and H. D. Van Campen.....	167,390	Sept. 7, 1875	10	3	8	408
Hay-rake, Horse.....	A. T. Hays.....	158,490	Jan. 5, 1875	125	42	7	26
Hay-rake, Horse.....	J. Hollingsworth.....	167,533	Sept. 7, 1875	136	41, 42	8	425
Hay-rake, Horse.....	C. E. Lipe.....	166,708	Aug. 17, 1875	515	158	8	289
Hay-rake, Horse.....	C. M. Lufkin and C. G. Allen.....	166,118	July 27, 1875	977	301	8	179
Hay-rake, Horse.....	P. Mast.....	158,723	Jan. 12, 1875	344	117	7	72
Hay-rake, Horse.....	B. Mellinger.....	160,693	Mar. 9, 1875	402	135	7	415
Hay-rake, Horse.....	B. Owen.....	159,349	Feb. 2, 1875	99	34	7	198
Hay-rake, Horse.....	G. Platt.....	163,103	May 11, 1875	359	117	7	802
Hay-rake, Horse.....	W. H. Ryer.....	169,733	Nov. 9, 1875	412	131	8	796
Hay-rake, Horse.....	D. P. Sharp.....	161,358	Mar. 30, 1875	1057	344	7	525

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Hay-rake, Horse.....	J. E. Taylor.....	162,713	Apr. 27, 1875	1068	340	7	734
Hay-rake, Horse.....	L. A. Taylor.....	169,928	Nov. 16, 1875	617	191	8	830
Hay-rake, Horse.....	R. Wilson.....	164,356	June 8, 1875	492	262	7	1007
Hay-rake, Horse.....	J. E. Wisner.....	162,132	Apr. 13, 1875	485	161	7	646
Hay-rake, Horse.....	N. D. Wood and L. Taylor.....	166,176	July 27, 1875	1036	319	8	188
Hay-rake, Wheel.....	C. La Dow.....	168,648	Oct. 11, 1875	329	107	8	619
Hay raker and loader.....	J. G. Krouse.....	169,009	Oct. 19, 1875	662	217	8	674
Hay-ricking apparatus.....	J. R. Hill.....	169,542	Nov. 2, 1875	202	67	8	762
Hay-slide.....	A. J. Reed.....	161,637	Apr. 6, 1875	42	16	7	575
Hay, straw, leaves, &c., Burning.....	A. Hamilton.....	164,993	June 29, 1875	1107	357	7	1113
Hay-tedder.....	E. M. Steckel.....	168,424	Oct. 5, 1875	93	32	8	578
Hay tumbler and rake, Combined.....	G. W. Bishop and D. B. Sherman.....	162,457	Apr. 27, 1875	832	268	7	705
Head-block.....	J. F. Cook.....	165,065	June 29, 1875	1169	376	7	1122
Head-block.....	E. A. Perry, jr., and G. M. Dwight.....	161,897	Apr. 13, 1875	283	95	7	621
Head-light attachment, Locomotive.....	T. S. Ray and C. T. Ham.....	165,426	July 13, 1875	294	87	8	56
Head-light for vessels, Signal.....	W. M. and J. J. Walton.....	168,434	Oct. 5, 1875	100	35	8	579
Head-light, Steamboat.....	W. E. Merrill.....	162,938	May 4, 1875	187	61	7	771
Head-rest.....	H. C. Cushman and G. T. Cockburn.....	171,356	Dec. 21, 1875	686	226	8	1057
Head-rest.....	O. C. White.....	165,286	July 6, 1875	129	39	8	26
Head-rest.....	W. M. White.....	162,784	May 4, 1875	46	14, 15	7	753
Health-lift apparatus.....	F. G. Johnson.....	169,002	Oct. 19, 1875	654	216	8	673
Hearse, Coffin-clamp for.....	W. H. Houck and J. B. Fox.....	159,323	Feb. 2, 1875	79	27	7	195
Hearth-ventilating attachment.....	W. S. Winfield.....	161,724	Apr. 6, 1875	114	41	7	585
Heat-regulator.....	W. S. Hill.....	167,611	Sept. 14, 1875	219	68	8	444
Heat regulator and alarm, Automatic.....	S. A. Day.....	164,815	June 22, 1875	928	301	7	1083
Heater:							
See Air and water heater. Gas-heater.							
Boiler-heater. Locomotive-tire heater.							
Bone-black heater. Lunch-heater.							
Candy-heater. Roller-heater.							
Car-heater. Sad-iron heater.							
Cheese-vat heater. School-room heater.							
Drum-heater. Soldering-iron heater.							
Feed-water heater. Steam-heater.							
Fire-place heater. Water-heater.							
Flat-iron heater.							
Heater.....	M. W. Baily.....	167,868	Sept. 21, 1875	465	147	8	488
Heater.....	M. H. Roberts.....	159,844	Feb. 16, 1875	583	193	7	277
Heater.....	S. D. Tuttle and B. F. Larsh.....	159,479	Feb. 2, 1875	226	73	7	216
Heater and condenser.....	J. E. Coughlin.....	163,917	June 1, 1875	65	22	7	939
Heater and drier.....	T. Cook.....	161,865	Apr. 13, 1875	251	84	7	616
Heating and ventilating apparatus for buildings.....	O. Kelsey.....	163,320	May 18, 1875	578	185	7	846
Heating and ventilating device.....	A. H. Thorp.....	166,825	Aug. 17, 1875	619	192	8	304
Heating and ventilating public buildings.....	A. P. Pitkin.....	164,933	June 29, 1875	1059	341	7	1107
Heating and ventilating register.....	J. B. Oldershaw.....	167,355	Aug. 31, 1875	1145	360	8	393
Heating apparatus, Smoke-stack.....	T. B. Field.....	169,093	Oct. 26, 1875	766	249	8	695
Heating apparatus, Steam.....	I. C. Richardson.....	164,935	June 29, 1875	1061	342	7	1107
Heating buildings, Method or process of.....	C. Franke.....	167,395	Sept. 7, 1875	16	4	8	409
Heating-furnace.....	C. Rees and T. Johns.....	162,688	Apr. 27, 1875	1040	332	7	731
Heating-furnace.....	W. E. Wood.....	162,135	Apr. 13, 1875	488	161	7	646
Heddle-frame.....	E. S. Pike.....	163,691	May 25, 1875	925	294	7	899
Heddle-frame.....	E. S. Pike.....	167,357	Aug. 31, 1875	1147	361	8	394
Heddle-frame bars, Device for securing.....	L. J. Knowles.....	168,095	Sept. 28, 1875	691	218	8	527
Heel and sole trimming machine.....	G. H. Bliss.....	161,858	Apr. 13, 1875	245	82	7	615
Heel and sole trimming machine.....	J. H. Busell.....	167,874	Sept. 21, 1875	470	149	8	488
Heel and sole trimming machine, Boot and shoe.....	R. C. Lambert.....	160,529	Mar. 9, 1875	258	88	7	394
Heel attaching and trimming machine.....	G. McKay, H. P. Fairfield, and } C. W. Glidden.....	166,795	Aug. 17, 1875	593	{ 183 } { 184 }	8	300
Heel, Boot and shoe.....	A. A. Danforth.....	166,507	Aug. 10, 1875	320	97	8	252
Heel, Boot and shoe.....	T. C. Musgrove.....	168,341	Oct. 5, 1875	20	8	8	567
Heel, Boot and shoe.....	R. Vint.....	167,959	Sept. 21, 1875	534	171	8	499
Heel-burnishing machine.....	C. J. Addy.....	169,884	Nov. 16, 1875	579	{ 179 } { 180 }	8	825
Heel burnishing machine, Boot and shoe.....	A. Swallow.....	159,469	Feb. 2, 1875	216	70	7	214
Heel burnishing machinery, Boot and shoe.....	V. K. Spear.....	162,775	May 4, 1875	37	12	7	752
Heel counters, Machine for trimming boot and shoe.....	J. R. Moffitt.....	158,385	Jan. 5, 1875	29	10	7	13
Heel making machine, Boot and shoe.....	W. Stevens.....	160,481	Mar. 2, 1875	201	69	7	377
Heel-plate.....	G. Dunlop.....	166,972	Aug. 24, 1875	777	239	8	334
Heel-polishing machine.....	L. Graf.....	164,443	June 15, 1875	586	191	7	1029
Heel-polishing machine.....	W. Joint and G. B. Dunham.....	171,515	Dec. 28, 1875	853	278	8	1087
Heel-polishing machine.....	W. Westcott.....	165,640	July 13, 1875	498	152	8	86
Heel polishing machine, Boot and shoe.....	J. H. Ryder.....	165,260	July 6, 1875	108	32	8	23
Heel protector, Boot and shoe.....	L. W. Buxton.....	168,224	Sept. 28, 1875	807	256	8	543
Heel-shave.....	N. A. Swett.....	164,885	June 22, 1875	996	321	7	1094
Heel-stiffener.....	W. F. Spinney.....	165,961	July 27, 1875	829	255	8	158
Heel-stiffeners or counter-blanks, Mechanism for feeding.....	S. and G. F. Moore.....	161,811	Apr. 6, 1875	192	65	7	596
Heel-treads, Metal wear-plates for.....	J. M. Ewing.....	163,004	May 11, 1875	267	87	7	790
Heel trimmer, Boot and shoe.....	C. W. Glidden and S. A. Simmons.....	166,765	Aug. 17, 1875	567	174	8	296
Heel-trimming machine.....	C. C. Ballou.....	158,456	Jan. 5, 1875	91	31	7	22
Heel-trimming machine.....	L. G. Clock.....	169,149	Oct. 26, 1875	815	{ 264 } { 265 }	8	702
Heel-trimming machine.....	I. Van Nounhuys.....	168,540	Oct. 5, 1875	203	67	8	593
Heel-trimming machinery.....	A. McDowell.....	166,933	Aug. 24, 1875	736	228	8	329
Heel trimming machinery, Boot and shoe.....	W. H. Rounds.....	160,283	Mar. 2, 1875	24	9, 10	7	352
Heels and soles of boots and shoes, Manufacture of.....	J. J. Sawin.....	163,948	June 1, 1875	92	31	7	943
Heels and soles of boots and shoes, Screw for.....	J. Uster.....	168,357	Oct. 5, 1875	33	13	8	569
Heels, Machine for constructing boot and shoe.....	E. N. Higley.....	161,511	Mar. 30, 1875	1208	388	7	544
Heels, Machine for forming rands for boot and shoe.....	T. Bullock.....	158,901	Jan. 19, 1875	541	178	7	112
Heels, &c., Machine for trimming and burnishing the edges of boot and shoe.....	G. H. Bliss.....	161,857	Apr. 13, 1875	243	81	7	615
Heels, Manufacture of boot and shoe.....	S. W. Baldwin.....	167,728	Sept. 14, 1875	319	102	8	459
Heels of boots and shoes, Attachment for.....	R. S. Van Zandt.....	171,199	Dec. 14, 1875	524	173	8	1027

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Heeling-machine	A. D. Elliott, G. E. Fellows, and S. A. Simmons.	166,756	Aug. 17, 1875	560	172	8	295
Hem-folder, Hand	F. Henry	160,429	Mar. 2, 1875	154	54	7	370
Hemp and flax machine	C. Herschaft and J. Lawrence	165,825	July 20, 1875	688	210	8	127
Hemp-hackling machine	F. D. Frost	170,947	Dec. 14, 1875	276	93	8	995
Hide-scouring machine	C. Rose	170,771	Dec. 7, 1875	108	34	8	964
Hides and skins, Compound for unhairing	H. Mower	158,648	Jan. 12, 1875	279	.....	7	63
Hides from vats, Machinery for raising and transferring	W. Coupe	165,212	July 6, 1875	68	19	8	18
Hides, Preparing and coloring	H. W. Merrill and J. W. Hoitt	170,100	Nov. 16, 1875	770	.....	8	851
Hides, Preserving	F. H. L. C. Sacc	171,177	Dec. 14, 1875	496	.....	8	1023
Hides, Treating	W. H. Holmes	170,855	Dec. 7, 1875	177	60	8	974
Hinge	L. E. Bolton	168,368	Oct. 5, 1875	46	16	8	571
Hinge	S. T. Davis	164,365	June 15, 1875	512	169	7	1020
Hinge	F. J. Battorf	158,489	Jan. 5, 1875	124	41	7	26
Hinge	A. H. Isham	167,537	Sept. 7, 1875	140	43	8	426
Hinge	J. Kauffman	159,682	Feb. 9, 1875	418	139	7	250
Hinge	D. W. Long	158,643	Jan. 12, 1875	273	92	7	62
Hinge	D. W. Long	170,750	Dec. 7, 1875	88	28	8	962
Hinge	L. H. Rogers	170,116	Nov. 16, 1875	782	249	8	852
Hinge	F. L. Sanderson	165,619	July 13, 1875	478	146	8	83
Hinge	J. R. Shields	170,598	Nov. 30, 1875	1268	399	8	934
Hinge	C. Sholl	165,957	July 27, 1875	824	253	8	158
Hinge	D. Skidmore	167,576	Sept. 7, 1875	172	54	8	430
Hinge	F. Toedt	170,314	Nov. 23, 1875	986	309	8	887
Hinge	B. Turner	168,592	Oct. 11, 1875	276	90	8	610
Hinge and closing-rod, Combined gate	W. H. McCormick	168,040	Sept. 21, 1875	611	196	8	509
Hinge attachment, Strap	H. Freeman	170,843	Dec. 7, 1875	168	57	8	973
Hinge, Combination spring	G. Z. House	167,900	Sept. 21, 1875	491	155	8	491
Hinge, Double reversible	E. Halsey	160,425	Mar. 2, 1875	150	53	7	370
Hinge for blinds and shutters, Lock	A. S. Parker	163,400	May 18, 1875	651	208	7	855
Hinge for safe-doors, &c.	W. R. Perry	160,616	Mar. 9, 1875	334	112	7	405
Hinge for seat-arms of school-desks	W. B. Cogger	164,268	June 8, 1875	408	136	7	996
Hinge for sewing-machine tables	H. B. Keiper	163,661	May 25, 1875	902	286	7	896
Hinge, Gate	G. Marsh	165,351	July 6, 1875	191	57	8	35
Hinge, Gate	S. L. Selden	158,987	Jan. 19, 1875	614	204	7	123
Hinge, Lock	J. Aikman	164,410	June 15, 1875	557	181	7	1025
Hinge, Self-closing	C. A. Miller	170,486	Nov. 30, 1875	1159	365	8	920
Hinge, Self-supporting	S. Adams	161,729	Apr. 6, 1875	121	42, 43	7	586
Hinge, Sheet-metal	S. Scott	164,774	June 22, 1875	885	289	7	1078
Hinge, Shutter	F. Beckert, jr	170,702	Dec. 7, 1875	45	13	8	956
Hinge, Spring	J. Annin	162,735	May 4, 1875	1	1	7	747
Hinge, Spring	R. M. C. Parker	167,114	Aug. 24, 1875	912	284	8	353
Hinge, Strap	J. G. Reynolds	170,769	Dec. 7, 1875	105	33	8	964
Hinges, Covering-plate for	H. T. Blake	165,061	June 29, 1875	1164	375	7	1121
Hitching device, Horse	E. Ohm	160,223	Feb. 23, 1875	941	309	7	334
Hitching device, Horse	J. Schoomaker	170,023	Nov. 16, 1875	694	218	8	841
Hitching device, Strap	C. H. Bausch	162,518	Apr. 27, 1875	886	233	7	712
Hitching devices, Clasp or thimble for	J. C. Covert	161,757	Apr. 6, 1875	144	50	7	589
Hitching-post	T. Maguire	167,263	Aug. 31, 1875	1066	332	8	382
Hives, Mold for shaping wax-comb guides for	J. F. Ervin	164,438	June 15, 1875	582	189	7	1028
Hod-elevator	W. Murphy	162,573	Apr. 27, 1875	931	299	7	718
Hoe	J. N. Burton	160,645	Mar. 9, 1875	358	121	7	409
Hoe	S. Green	158,373	Jan. 5, 1875	19	7	7	11
Hoe	M. Johnson	159,332	Feb. 2, 1875	87	30	7	196
Hoe	H. D. Mills	164,021	June 1, 1875	153	54	7	952
Hoe	D. and E. Moore	164,023	June 1, 1875	155	55	7	952
Hoe	A. A. Porter	168,780	Oct. 11, 1875	444	144	8	635
Hoe and plow, Combined horse	A. D. Simons	160,621	Mar. 9, 1875	339	114	7	406
Hoe, Weeding	A. S. Dunham	167,229	Aug. 31, 1875	1038	322	8	378
Hoes, Die for making	F. J. Fischer	158,366	Jan. 5, 1875	15	5	7	11
Hoes, Manufacture of grubbing	J. C. Klein	171,141	Dec. 14, 1875	463	152	8	1019
Hoeling-machine	H. N. Prout	168,105	Sept. 28, 1875	700	221	8	528
Hog-catching implement	W. R. Ames	164,767	June 22, 1875	831	270	7	1070
Hog-lifter	N. Caldwell	168,612	Oct. 11, 1875	294	95	8	613
Hog-ring blank	W. D. Brown	158,356	Jan. 5, 1875	6	2	7	9
Hog-ringing apparatus	S. and J. W. Sparks	165,266	July 6, 1875	113	34	8	24
Hog-ringing nippers	W. E. Bingham	159,886	Feb. 16, 1875	626	207	7	283
Hog-trap	J. F. Cooper and W. W. Hiatt	160,307	Mar. 2, 1875	43	16	7	355
Hog-trap	W. Deatherage	167,440	Sept. 7, 1875	55	17	8	414
Hog-trap	J. M. Kimball	164,743	June 22, 1875	860	280	7	1075
Hog-trap	J. Klar	159,185	Jan. 26, 1875	816	268	7	158
Hog-trap	P. Lane	158,950	Jan. 19, 1875	576	191	7	118
Hog-trap	H. Ogborn	163,603	May 25, 1875	855	270	7	889
Hog-watering tank	G. A. Carter	158,905	Jan. 19, 1875	535	178	7	113
Hog's nose shears	W. H. Grow and C. M. Sloan	171,013	Dec. 14, 1875	340	113	8	1003
Hogshead and barrel horse	J. N. Parker	170,186	Nov. 23, 1875	873	273	8	871
Hoist, Hydraulic	H. Richmann	160,232	Feb. 23, 1875	948	311	7	335
Hoist, Ore	C. W. Hunt	170,442	Nov. 30, 1875	1117	352	8	914
Hoisting and conveying coal, &c.	G. Stancliff and J. Green	161,175	Mar. 23, 1875	864	282, 283	7	492
Hoisting apparatus	N. W. Hoffman	167,763	Sept. 14, 1875	357	113	8	464
Hoisting apparatus	H. Opperman and A. Black	158,970	Jan. 19, 1875	596	198	7	121
Hoisting apparatus	D. M. Pfantz and L. Sternberger	158,976	Jan. 19, 1875	600	199	7	121
Hoisting apparatus	W. Turner	168,196	Sept. 28, 1875	785	249	8	540
Hoisting apparatus, Hydraulic	F. Rochow	162,311	Apr. 20, 1875	666	217	7	676
Hoisting-engine, Hydraulic	G. M. Gerrish	165,558	July 13, 1875	419	126	8	74
Hoisting-machine	V. Duhamel	164,432	June 15, 1875	579	187	7	1028
Hoisting-machine	N. P. Otis	166,219	Aug. 3, 1875	32	11	8	203
Hoisting-machine	H. Richmann	160,233	Feb. 23, 1875	949	311	7	335
Hoisting-machine	J. Wallace	168,594	Oct. 11, 1875	277	90	8	611
Hoisting-machine or elevator	E. Schlenker	166,730	Aug. 17, 1875	537	165	8	292
Hoisting-tongs	W. C. Frederiek	166,599	Aug. 10, 1875	399	123	8	264
Holdback	J. B. Goldsmith	158,370	Jan. 5, 1875	18	6	7	11
Holdback	W. H. Harvey	165,575	July 13, 1875	434	131	3	77

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Holdback	J. V. Phillips	163,884	June 1, 1875	41	14	7	936
Holdback, Adjustable	S. R. Rood	159,711	Feb. 9, 1875	442	148	7	254
Holdback-iron	A. Bedford	162,456	Apr. 27, 1875	831	268	7	705
Holder:							
See Adjustable screen-holder.	Neck-tie holder.						
Bag-holder.	Package-holder.						
Bed-clothes holder.	Paper-bag holder.						
Billiard-chalk holder.	Pen-holder.						
Bird-food holder.	Pencil and crayon holder.						
Book-holder.	holder.						
Boot-holder.	Photographic-plate holder.						
Broom-holder.	holder.						
Brush-holder.	Picture-holder.						
Brush and mop holder.	Planing-machine-cutter holder.						
Burnisher-holder.	holder.						
Candle-holder.	Preserve-can holder.						
Cartridge-holder.	Rail-holder.						
Clock-movement holder.	Rein-holder.						
Coal-holder.	Rim-holder.						
Copy-holder.	Sack-holder.						
Cow-tail holder.	Sad-iron holder.						
Cuff-holder.	Sample-holder.						
Curtain-cord holder.	Sash-holder.						
Dish-cloth holder.	Shawl-holder.						
Egg-holder.	Sheep-holder.						
Eraser-holder.	Soap-holder.						
File-holder.	Spinning-ring holder.						
Gas-holder.	Sponge-holder.						
Globe-holder.	Spool-holder.						
Hair-holder.	Spoon-holder.						
Handkerchief-holder.	Stamp-holder.						
Hat-holder.	Stereotype-holder.						
Joint-holder.	Stereotype-plate holder.						
Label-holder.	Stocking and shirt holder.						
Lamp-holder.	holder.						
Lamp-globe holder.	Tablet-holder.						
Mop and brush holder.	Twine-holder.						
Mucilage holder.	Umbrella-rib-tip holder.						
Music-holder.	Warp-holder.						
Napkin-holder.							
Hollow rings, Die for making	S. Cottle	158,914	Jan. 19, 1875	543	180	7	114
Hominy-mill	B. Harvey	169,698	Nov. 9, 1875	380	{ 119 } { 120 }	8	792
Honey-packer	L. Drake	170,622	Nov. 30, 1875	1290	408	8	937
Hood	J. Brugger and S. Christophe	159,497	Feb. 9, 1875	255	83	7	227
Hood	J. Brugger and S. Christophe	161,003	Mar. 23, 1875	705	233	7	472
Hoof-trimmer	A. Shirran and W. J. Givens	159,972	Feb. 16, 1875	701	233	7	293
Hook:							
See Awning-hook.	Ice-hook.						
Bench-hook.	Mousing-hook.						
Bird-cage hook.	Sail-bending hook.						
Car hitch-hook.	Single-tree hook.						
Cast-hook.	Snap-hook.						
Fishing spoon-hook.	Wardrobe-hook.						
Harrow-hook.	Window-bracket hook.						
Hat and coat hook.	Whiffletree-hook.						
Hook	A. H. Alverson	159,374	Feb. 2, 1875	119	41	7	200
Hook	M. Mattson	159,275	Feb. 2, 1875	29	10	7	188
Hook and eye for wearing-apparel	J. C. Howells	169,267	Oct. 26, 1875	920	298	8	717
Hoop:							
See Barrel-hoop.	Toy-hoop.						
Mast-hoop.							
Hoop-coiling machine	J. Tomlinson	159,289	Feb. 2, 1875	43	15, 16	7	190
Hoop-cutting machine	P. Cook	164,077	June 8, 1875	233	81	7	974
Hoop-cutting machine	H. Fowler	165,555	July 13, 1875	417	125	8	74
Hoop-cutting machine	G. V. Griffith	164,294	June 8, 1875	431	143	7	999
Hoop-fastening	W. Spalding	166,564	Aug. 10, 1875	367	112	8	259
Hoop-making machine	G. V. Griffith	162,644	Apr. 27, 1875	991	318	7	725
Hoop-sawing machine	E. Young	165,910	July 20, 1875	765	234	8	138
Hoops, Machine for shaving half-round	G. B. Selden	171,247	Dec. 21, 1875	591	194	8	1044
Hop-grubs, &c., Compound for destroying	O. M. Knox	166,207	Aug. 3, 1875	22		8	202
Hopple	J. Shive	165,127	June 29, 1875	1223	393	7	1129
Hopple, Animal	J. D. Wilson	160,134	Feb. 23, 1875	861	285	7	323
Horizontal wind-wheel	F. Burt	168,608	Oct. 11, 1875	289	94	8	612
Horn and hoof, Manufacturing articles from	W. F. Niles	166,475	Aug. 10, 1875	295		8	248
Horn-polishing machine	C. C. Fish	171,220	Dec. 21, 1875	566	186	8	1041
Horse and water power apparatus	W. S. Watkins	169,391	Nov. 2, 1875	67	20	8	743
Horse-blanket and fly-net, Combined	L. S. Crittenden	170,528	Nov. 30, 1875	1197	378	8	925
Horse-blanket and pantaloons, Combined	C. Franke	160,012	Feb. 23, 1875	761	252	7	308
Horse-blanket or lap-robe	G. V. Shepard	158,990	Jan. 19, 1875	617	204	7	124
Horse-boot	J. B. Hall	167,895	Sept. 21, 1875	487	154	8	491
Horse-check	J. Sugden and J. P. Gaffney	159,529	Feb. 9, 1875	292	94	7	232
Horse-checking device, Vehicle	W. T. and J. B. Burton	158,359	Jan. 5, 1875	8	3	7	10
Horse-checking device, Vehicle	J. Knight	170,091	Nov. 16, 1875	762	241	8	849
Horse-detacher	P. Arnold	158,774	Jan. 19, 1875	409	137	7	97
Horse-detacher	A. Barker	162,517	Apr. 27, 1875	885	283	7	712
Horse-detacher	J. A. Maze	164,467	June 15, 1875	608	197	7	1031
Horse-detacher	D. E. Owen	170,389	Nov. 23, 1875	1054	331	8	897
Horse-detaching apparatus	J. W. Glover	167,660	Sept. 14, 1875	260	81	8	450
Horse-detaching apparatus	J. H. O'Brien	171,242	Dec. 21, 1875	586	192	8	1043
Horse-detaching apparatus, Carriage	I. L. Fallis	169,685	Nov. 9, 1875	363	114	8	790
Horse-detaching device	J. Carpenter	168,227	Sept. 28, 1875	809	257	8	544
Horse-detaching device, Vehicle	J. Weikert	161,998	Apr. 13, 1875	365	123	7	631
Horse interfering-boot	A. D. Westbrook	160,248	Feb. 23, 1875	960	316	7	337

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Horse interfering-pad	H. S. Nichols	162,251	Apr. 20, 1875	613	200	7	670
Horse-power	G. E. Burt	161,663	Apr. 6, 1875	66	24	7	578
Horse-power	W. H. Butterworth	171,094	Dec. 14, 1875	413	{ 137 138 }	8	1013
Horse-power	P. K. Dederick	171,000	Dec. 14, 1875	331	110	8	1002
Horse-power	P. K. Dederick	171,001	Dec. 14, 1875	332	110	8	1002
Horse-power	A. B. Farquhar	168,469	Oct. 5, 1875	132	45	8	584
Horse-power	D. Geiser	163,472	May 18, 1875	710	227	7	864
Horse-power	G. W. Gordon	170,252	Nov. 23, 1875	934	291	8	880
Horse-power	W. I. Grant	169,164	Oct. 26, 1875	830	269	8	705
Horse-power	J. R. Gray	166,358	Aug. 3, 1875	156	48	8	222
Horse-power	E. J. and J. W. Hoyle	160,098	Feb. 23, 1875	833	274	7	319
Horse-power	A. D. Manley	170,386	Nov. 23, 1875	1051	330	8	896
Horse-power	T. G. Palmer	158,806	Jan. 19, 1875	440	147	7	101
Horse-power	H. Parkhurst	164,588	June 15, 1875	709	231	7	1046
Horse-power	N. Potter	167,930	Sept. 21, 1875	512	163	8	495
Horse-power	J. S. Schofield	163,534	May 18, 1875	776	246	7	872
Horse-power	J. Smith	169,380	Nov. 2, 1875	59	17	8	742
Horse-power	L. Stewart	164,335	June 8, 1875	468	155	7	1004
Horse-power	F. Trulender	171,450	Dec. 21, 1875	769	253	8	1068
Horse-power	Z. D. Waters	164,352	June 8, 1875	489	161	7	1007
Horse-power attachment	J. G. Merchen	159,340	Feb. 2, 1875	93	32	7	197
Horse-power, Endless-chain	S. W. Davis	169,780	Nov. 9, 1875	464	146	8	803
Horse-power governor	J. D. Heebner	160,595	Mar. 9, 1875	317	107	7	403
Horse power link	B. L. Olds	164,473	June 15, 1875	612	198	7	1032
Horse-power, Mounted	F. D. Coy	158,784	Jan. 19, 1875	418	140	7	98
Horse-power, Portable	C. Roberts	166,147	July 27, 1875	1008	311	8	184
Horse quarter-boot and toe-weight combined	J. B. Gilbert	162,052	Apr. 13, 1875	412	138	7	637
Horse-rake	W. Aldrich	169,329	Nov. 2, 1875	3	1	8	735
Horse-rake	J. Badger	170,044	Nov. 16, 1875	711	226	8	843
Horse-rake	R. Brown	164,071	June 8, 1875	227	79	7	973
Horse-rake	C. M. Clinton and L. Mood	164,266	June 8, 1875	403	{ 135 136 }	7	996
Horse-rake	C. B. Perkins	171,419	Dec. 21, 1875	744	244	8	1064
Horse-rake	W. C. Raynor	171,423	Dec. 21, 1875	746	245	8	1065
Horse-rake	J. H. Thomas	170,130	Nov. 16, 1875	795	252	8	854
Horse-rake	H. C. Velie	168,543	Oct. 5, 1875	207	68	8	503
Horse-rake, Revolving	J. H. Randolph, jr.	166,030	July 27, 1875	892	276	8	168
Horse-stopping apparatus	J. Laubser and W. Woerle	161,131	Mar. 23, 1875	827	271	7	487
Horse sun-protector, Car	V. Henry	160,521	Mar. 9, 1875	253	86	7	393
Horse-tail protector	G. R. Willmot	158,558	Jan. 5, 1875	179	62	7	34
Horses, Apparatus for breaking	J. Z. Walling	161,461	Mar. 30, 1875	1154	372	7	538
Horses from cribbing, Device for preventing	A. C. Lickner	168,683	Oct. 11, 1875	356	116	8	623
Horses from jumping, &c., Device for preventing	G. D. Clisholm	168,082	Sept. 28, 1875	677	214	8	525
Horses from running, Device for preventing	C. Guelicher	170,552	Nov. 30, 1875	1220	384	8	928
Horses in engine-houses, Gong attachment for releasing	C. Sibert	169,379	Nov. 2, 1875	58	17	8	742
Horses, Toe-weight and quarter-boot attachment for	H. D. McKinney	165,014	June 29, 1875	1125	363	7	1116
Horses, Toe-weight for	W. H. Abbott	167,599	Sept. 14, 1875	209	65	8	443
Horseshoe	A. Albright	167,600	Sept. 14, 1875	209	65	8	443
Horseshoe	T. B. Bishop	160,565	Mar. 9, 1875	290	98	7	399
Horseshoe	A. J. Clatherwick	170,809	Dec. 7, 1875	140	46	8	969
Horseshoe	E. L. Brown	168,369	Oct. 5, 1875	47	17	8	571
Horseshoe	E. M. Bumpus	168,872	Oct. 19, 1875	535	175	8	656
Horseshoe	D. Carey	161,860	Apr. 13, 1875	247	82	7	616
Horseshoe	J. H. Dorgan	166,513	Aug. 10, 1875	325	98	8	253
Horseshoe	A. Dunbar	170,245	Nov. 23, 1875	926	289	8	879
Horseshoe	J. D. Felthousen	162,280	Apr. 20, 1875	638	208	7	673
Horseshoe	C. Hartmann	163,997	June 1, 1875	132	46, 47	7	949
Horseshoe	S. B. Henry	160,188	Feb. 23, 1875	910	299	7	329
Horseshoe	R. Lee	159,191	Jan. 26, 1875	821	270	7	159
Horseshoe	A. Moffitt	171,626	Dec. 28, 1875	969	314	8	1104
Horseshoe	Z. V. Purdy	171,421	Dec. 21, 1875	745	245	8	1065
Horseshoe	M. L. Roberts	167,789	Sept. 14, 1875	378	121	8	467
Horseshoe	J. Russell	166,226	Aug. 3, 1875	38	12	8	204
Horseshoe	T. Skelton	162,862	May 4, 1875	116	38	7	762
Horseshoe	A. W. Smith	170,911	Dec. 7, 1875	226	78	8	981
Horseshoe	A. C. Snowden	166,820	Aug. 17, 1875	615	190	8	304
Horseshoe	S. Stone	169,495	Nov. 2, 1875	154	51	8	756
Horseshoe	J. T. Walker	168,068	Sept. 21, 1875	652	207	8	514
Horseshoe	J. Wanstall	165,278	July 6, 1875	120	37	8	25
Horseshoe and swage	S. N. Stephenson	171,589	Dec. 28, 1875	918	301	8	1097
Horseshoe-bar-bending device	R. Hale and J. B. Johnston	160,590	Mar. 9, 1875	312	105	7	402
Horseshoe-bars, Roll for rolling and creasing	H. H. Gilmore	163,864	June 1, 1875	25	8	7	934
Horseshoe-bending machine	A. Barton	163,841	June 1, 1875	5	2	7	931
Horseshoe-bending machine	H. Levy	164,649	June 22, 1875	775	254	7	1063
Horseshoe-blank	J. T. Walker	163,555	May 18, 1875	795	252	7	874
Horseshoe-blank	J. T. Walker	170,609	Nov. 30, 1875	1278	403	8	935
Horseshoe-blank bar	H. H. Gilmore	164,914	June 29, 1875	1040	335	7	1105
Horseshoe-blank bar	J. Wike	166,238	Aug. 3, 1875	48	16	8	206
Horseshoe-blank bars, Pile for	J. Russell	166,227	Aug. 3, 1875	39	13	8	204
Horseshoe-blank bars, Roll for rolling	W. W. Lewis	159,426	Feb. 2, 1875	166	57	7	207
Horseshoe-blank bending and swaging machine	R. and R. W. Hale	167,894	Sept. 21, 1875	486	154	8	491
Horseshoe-blank-rolling machine	W. D. Young	168,205	Sept. 28, 1875	794	252	8	541
Horseshoe-blanks, Roll for making	W. M. Greenwood and J. N. Clarke	167,096	Aug. 24, 1875	898	280	8	351
Horseshoe-blanks, Roll for rolling	J. T. Walker	163,554	May 18, 1875	794	251	7	874
Horseshoe-calk-blank bar	J. B. Johnston	163,316	May 18, 1875	575	184	7	846
Horseshoe-calk-sharpening machine	E. Gleason and R. Hamilton	159,918	Feb. 16, 1875	653	216	7	287
Horseshoe-calks, Die for forming	L. Prichard	163,408	May 18, 1875	657	210	7	856
Horseshoe-calks, Dies for forming spurs on	J. Palmer	163,882	June 1, 1875	39	13	7	936
Horseshoe-calking machine	E. Gleason and R. Hamilton	164,291	June 8, 1875	428	142	7	999
Horseshoe-creasing die	W. Russell	164,044	June 1, 1875	178	63	7	955
Horseshoe-fastening	S. McVeen and B. K. Rice	161,426	Mar. 30, 1875	1224	{ 362 363 }	7	533

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Horseshoe ice-nail	H. M. Patterson	169,286	Oct. 26, 1875	938	304	8	720
Horseshoe-machine	H. J. Batchelder	159,743	Feb. 16, 1875	491	165	7	265
Horseshoe-machine	H. J. Batchelder	171,258	Dec. 21, 1875	600	197	8	1045
Horseshoe-machine	U. Billings	170,931	Dec. 14, 1875	262	87	8	993
Horseshoe-machine	G. Custer	162,804	May 4, 1875	63	21	7	755
Horseshoe-machine	L. Espach	168,008	Sept. 21, 1875	576	185	8	505
Horseshoe-machine	W. W. Lewis	168,336	Oct. 5, 1875	17	7	8	567
Horseshoe-machine	D. I. Pruner	171,320	Dec. 21, 1875	653	{ 214 215 }	8	1052
Horseshoe-machine	F. Supple	158,871	Jan. 19, 1875	497	167	7	108
Horseshoe-machine	J. Williams	159,005	Jan. 19, 1875	630	{ 208 209 }	7	125
Horseshoe-magnets, Machine for bending	J. C. Bryan	160,153	Feb. 23, 1875	880	290	7	326
Horseshoe-nail-blank bars, Machine for forging	F. H. Richards	164,102	June 8, 1875	255	87, 88	7	977
Horseshoe-nail-finishing machine	G. Armstrong and J. A. Hutch- inson	162,789	May 4, 1875	51	16, 17	7	753
Horseshoe-nail-finishing machine	H. A. Wills	170,793	Dec. 7, 1875	127	42	8	967
Horseshoe-nail machine	D. J. and S. Farmer	168,244	Sept. 28, 1875	825	{ 262 263 }	8	546
Horseshoe-nail machine	J. Roy	169,044	Oct. 19, 1875	696	230	8	678
Horseshoe-nail-making machine	A. D. Bingham	161,379	Mar. 30, 1875	1082	350	7	528
Horseshoe-nail plates, Manufacture of	D. J. Harrington	159,410	Feb. 2, 1875	153	51	7	205
Horseshoe-nail-rolling machine	G. L. Hall	169,357	Nov. 2, 1875	36	10, 11	8	739
Horseshoe-pad, Elastic	J. B. Wood	159,292	Feb. 2, 1875	45	16	7	191
Horseshoes, Die for forming spurs and toe-calks for	T. M. Clark and D. B. Chase	164,808	June 22, 1875	922	299	7	1082
Horseshoes, Die for making	W. Horsfall	160,195	Feb. 23, 1875	914	301	7	330
Horseshoes, Manufacture of	A. B. Seymour	167,027	Aug. 24, 1875	828	258	8	342
Horseshoeing apparatus	C. Schuur	158,529	Jan. 5, 1875	157	53	7	31
Horseshoeing-harness	I. P. Pickering	163,405	May 18, 1875	655	209	7	856
Horseshoeing-stock	R. S. Harris	164,296	June 8, 1875	434	144	7	1000
Horseshoeing-tool	C. R. Donner	166,971	Aug. 24, 1875	776	239	8	334
Hose and belting, Process of preserving cotton, hemp, and flax	T. H. Dunham	170,829	Dec. 7, 1875	156	.....	8	971
Hose and pipe coupling	H. G. Koehler	167,675	Sept. 14, 1875	272	85	8	451
Hose and tubing	T. H. Dunham	170,828	Dec. 7, 1875	156	.....	8	971
Hose-bridge	L. T. Kruse	166,991	Aug. 24, 1875	799	248	8	337
Hose-carriage	T. McCabe	161,425	Mar. 30, 1875	1123	{ 362 363 }	7	533
Hose clamp on patch	G. S. Knapp	161,045	Mar. 23, 1875	743	244	7	477
Hose-coupling	W. A. Caswell	168,970	Oct. 19, 1875	626	207	8	670
Hose-coupling	W. A. Caswell	170,155	Nov. 23, 1875	846	265	8	868
Hose-coupling	E. Dayton	164,816	Jun. 22, 1875	930	301	7	1083
Hose-coupling	W. M. Henderson	165,415	July 13, 1875	284	84	8	54
Hose-coupling	M. M. Lewis	167,262	Aug. 31, 1875	1065	332	8	352
Hose-coupling	A. J. Morse	166,130	July 27, 1875	990	306	8	181
Hose-coupling	W. Painter	160,700	Mar. 9, 1875	408	136	7	416
Hose-coupling	J. Ruppenthal	163,261	May 11, 1875	505	164	7	820
Hose-coupling	T. L. Summers	162,506	Apr. 27, 1875	878	281	7	711
Hose-coupling	S. White	170,457	Nov. 30, 1875	1130	357	8	916
Hose-coupling	A. Work	166,177	July 27, 1875	1037	320	8	188
Hose drying and draining reel	A. R. Guider	163,374	May 18, 1875	627	200	7	852
Hose drying and stretching device	A. C. Carey	161,383	Mar. 30, 1875	1085	351	7	528
Hose, Engine	T. L. Pierce	160,226	Feb. 23, 1875	942	310	7	334
Hose, Fire	J. V. Reed	161,272	Mar. 23, 1875	962	314	7	505
Hose, Fire	J. V. Reed	161,273	Mar. 23, 1875	963	314	7	505
Hose, Foot-pipe for suction	W. Painter	160,704	Mar. 9, 1875	413	137	7	417
Hose, Hydraulic	S. W. Baker	170,803	Dec. 7, 1875	135	45	8	968
Hose, Hydraulic	L. H. Downing	158,631	Jan. 12, 1875	262	89	7	61
Hose, Hydraulic	L. H. Downing	165,159	July 6, 1875	12	4	8	10
Hose, Hydraulic	G. D. Joslin	160,526	Mar. 9, 1875	256	87	7	394
Hose, Hydraulic	J. M. Stone	164,246	June 29, 1875	1070	344	7	1108
Hose-joint	E. Dayton	161,492	Mar. 30, 1875	1192	383	7	542
Hose-leak stopper	W. W. Whitcomb	158,554	Jan. 5, 1875	176	61	7	33
Hose, Machine for manufacturing hydraulic	J. A. Wiley	161,463	Mar. 30, 1875	1156	373	7	538
Hose, Machinery for lining hydraulic	J. U. Braman	170,153	Nov. 23, 1875	845	264	8	867
Hose or tubing, Vulcanizing	J. B. Forsyth	168,087	Sept. 28, 1875	681	215	8	526
Hose or tubing, Vulcanizing	J. B. Forsyth	168,088	Sept. 28, 1875	682	.....	8	526
Hose, Process of introducing antiseptics into rubber	J. Murphy	159,345	Feb. 2, 1875	96	33	7	197
Hose-reel	J. A. Miller	167,851	Sept. 21, 1875	450	143	8	485
Hose, Rubber	J. Greacen, jr.	165,324	July 6, 1875	166	50	8	31
Hose-spanner	J. Burke	165,707	July 20, 1875	569	174	8	111
Hose spanner and key	A. J. Barnard	166,492	Aug. 10, 1875	309	93	8	250
Hose to hose-coupling, Attaching	A. J. Morse	160,686	Mar. 9, 1875	404	135	7	415
Hose, Water-proof	S. W. Baker	166,580	Aug. 10, 1875	379	117	8	261
Hose, Water-proof	S. W. Baker	169,760	Nov. 9, 1875	447	141	8	801
Hot-air furnace	B. L. Bradley	159,383	Feb. 2, 1875	126	44	7	202
Hot-air furnace	W. Burrows	160,644	Mar. 9, 1875	357	120	7	409
Hot-air furnace	C. B. Chace	165,712	July 20, 1875	574	176	8	112
Hot-air furnace	C. Clark	171,351	Dec. 21, 1875	682	{ 224 225 }	8	1056
Hot-air furnace	J. W. Cray	161,208	Mar. 23, 1875	891	292	7	496
Hot-air furnace	W. O. Crocker	163,050	May 11, 1875	311	100	7	795
Hot-air furnace	L. Dupont	162,907	May 4, 1875	156	51	7	767
Hot-air furnace	H. D. Freer	167,657	Sept. 14, 1875	258	80	8	449
Hot-air furnace	S. J. Gold	163,009	May 11, 1875	271	88	7	791
Hot-air furnace	T. F. Hemmich	171,281	Dec. 21, 1875	622	204	8	1048
Hot-air furnace	T. Langstrath	166,015	July 27, 1875	879	271	8	165
Hot-air furnace	J. A. Lawson	158,954	Jan. 19, 1875	580	{ 192 193 }	7	119
Hot-air furnace	W. McFarland	161,535	Mar. 30, 1875	1230	396	7	547
Hot-air furnace	C. L. Pierce and H. A. Pinkham	169,729	Nov. 9, 1875	409	{ 129 130 }	8	796
Hot-air furnace	B. C. Sayre	171,431	Dec. 21, 1875	755	248	8	1066
Hot-air furnace	J. H. Shoemaker	161,285	Mar. 23, 1875	973	318	7	506
Hot-air furnace	N. Toye	167,631	Sept. 14, 1875	237	73, 74	8	446

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Hot-air furnace.....	G. E. Wallis.....	162,436	Apr. 20, 1875	789	256	7	691
Hot-air furnace.....	G. W. White.....	164,627	June 15, 1875	740	242	7	1050
Hot-air furnace and range, Combined.....	L. G. Hallberg.....	164,916	June 29, 1875	1042	336	7	1105
Hot-air furnaces, Heat-regulator for.....	A. H. Tingley.....	168,297	Sept. 28, 1875	872	279	8	553
Hot-air register.....	H. Fritz.....	160,514	Mar. 9, 1875	246	84	7	392
Hot-air register.....	E. A. Tuttle.....	167,480	Sept. 7, 1875	87	27	8	418
Hot-air register.....	E. A. Tuttle.....	167,481	Sept. 7, 1875	87	27	8	419
Hot-blast apparatus.....	H. Essex.....	165,084	June 29, 1875	1185	381	7	1124
Hot-water heating apparatus.....	C. F. Wackwitz.....	165,277	July 6, 1875	120	37	8	25
House:							
See Bird-house. Smoke-house.							
Lead-corroding house. Warehouse.							
Refrigerating-house. Wooden house.							
House-building.....	J. N. Cherry.....	139,247	Feb. 2, 1875	6	2	7	185
Hub.....	L. N. Bewley.....	168,445	Oct. 5, 1875	110	37, 38	8	581
Hub.....	E. F. Friend.....	165,225	July 6, 1875	78	23	8	19
Hub.....	A. Rimes.....	164,936	June 29, 1875	1063	342	7	1107
Hub and axle, Vehicle.....	G. R. Drew.....	163,305	May 18, 1875	566	181	7	844
Hub-band.....	D. W. Baird.....	167,970	Sept. 21, 1875	541	174	8	500
Hub-band.....	C. H. Liedke.....	164,310	June 8, 1875	447	147	7	1002
Hub-borer.....	A. Bascom.....	164,415	June 15, 1875	562	183	7	1026
Hub-boring machine.....	E. M. Henkle.....	163,490	May 1, 1875	730	233	7	866
Hub-boring machine.....	J. Lee.....	166,788	Aug. 17, 1875	588	181	8	299
Hub, Vehicle.....	E. Ball.....	158,210	Sept. 28, 1875	797	253	8	542
Hub, Vehicle.....	J. C. Hendry.....	165,097	June 29, 1875	1200	386	7	1126
Hub, Vehicle.....	D. O. Holman.....	171,284	Dec. 21, 1875	625	204	8	1049
Hub, Vehicle.....	J. H. Lindsay.....	166,283	Aug. 3, 1875	92	28	8	212
Hub, Vehicle-wheel.....	W. Gallan.....	162,813	May 4, 1875	71	23	7	756
Hub, Vehicle-wheel.....	C. H. Guard.....	159,262	Feb. 2, 1875	20	7	7	187
Hub, Vehicle-wheel.....	J. H. Hyman.....	162,477	Apr. 27, 1875	850	273	7	707
Hub, Vehicle-wheel.....	H. A. Payne.....	158,974	Jan. 19, 1875	599	199	7	121
Hub, Vehicle-wheel.....	A. N. Price.....	158,737	Jan. 12, 1875	355	121	7	74
Hub, Vehicle-wheel.....	L. Rodenhausen.....	163,258	May 11, 1875	501	163	7	819
Hub, Vehicle-wheel.....	G. L. Rouse and M. W. Stoddard.....	161,904	Apr. 13, 1875	288	97	7	621
Hub, Vehicle-wheel.....	W. Teegarden.....	159,123	Jan. 26, 1875	759	250	7	150
Hub, Wheel.....	R. W. Davis.....	170,996	Dec. 14, 1875	327	108	8	1001
Hub, Wheel.....	J. Hyman.....	170,566	Nov. 30, 1875	1232	388	8	930
Hub, Wheel.....	W. H. Masterman.....	169,715	Nov. 9, 1875	375	124	8	794
Hubs to axles, Attaching.....	B. B. Howard.....	158,639	Jan. 12, 1875	170	91	7	62
Hubs to axles, Device for attaching.....	D. Dalzell.....	160,007	Feb. 23, 1875	7, 7	250	7	308
Hubs to axles, Device for attaching.....	D. A. Johnson.....	159,762	Feb. 16, 1875	507	170	7	268
Hubs to axles, Device for attaching.....	W. E. Pratt.....	165,504	July 13, 1875	371	110	8	67
Huller:							
See Coffee-huller. Cotton-seed huller.							
Husking-pin.....	G. Armstrong.....	168,078	Sept. 28, 1875	670	213	8	525
Hydrant.....	M. Allen.....	171,206	Dec. 21, 1875	553	181	8	1039
Hydrant.....	G. C. Bailey.....	168,599	Oct. 11, 1875	282	91	8	611
Hydrant.....	S. Blackie.....	171,499	Dec. 28, 1875	839	275	8	1085
Hydrant.....	M. Burnett.....	158,622	Jan. 12, 1875	254	86	7	60
Hydrant.....	H. H. Clover.....	162,351	Apr. 20, 1875	703	229	7	681
Hydrant.....	J. O. Conner.....	170,238	Nov. 23, 1875	921	287	8	878
Hydrant.....	D. C. Cregier.....	164,140	June 8, 1875	293	100	7	982
Hydrant.....	J. W. R. Fisher and W. H. Fiske.....	163,759	May 25, 1875	984	312	7	906
Hydrant.....	J. Fleming.....	167,656	Sept. 14, 1875	257	80	8	449
Hydrant.....	W. D. Greanelle.....	169,538	Nov. 2, 1875	192	66	8	761
Hydrant.....	G. Hillegass.....	164,737	June 22, 1875	856	278	7	1074
Hydrant.....	W. H. McMillan.....	164,856	June 22, 1875	966	312	7	1088
Hydrant.....	J. E. Mooney.....	160,401	Aug. 3, 1875	203	61	8	227
Hydrant.....	J. G. Murdock.....	164,864	June 22, 1875	974	315	7	1089
Hydrant.....	B. D. Pease and R. Campbell.....	169,288	Oct. 26, 1875	939	305	8	720
Hydrant.....	C. F. Rapp.....	168,413	Oct. 5, 1875	85	29	8	577
Hydrant.....	W. Scott.....	164,489	June 15, 1875	626	202	7	1034
Hydrant.....	J. A. Stacy and S. W. Lewis.....	169,738	Nov. 9, 1875	416	132	8	797
Hydrant, Adjustable.....	G. D. Blocher.....	161,740	Apr. 6, 1875	132	45	7	588
Hydrant, Anti-freezing.....	R. Smeaton.....	168,422	Oct. 5, 1875	91	32	8	578
Hydrant for fire-plugs, &c., Non-freezing.....	H. I. Chapman.....	160,571	Mar. 9, 1875	295	100	7	400
Hydrant, Steam fire-engine.....	R. T. H. Stileman.....	166,904	Aug. 17, 1875	697	216	8	314
Hydrant, Street.....	G. H. Clemens and G. C. Morgan.....	163,261	May 18, 1875	616	197	7	851
Hydrant, Street.....	J. Flower.....	162,370	Apr. 20, 1875	726	237	7	683
Hydrant street connection.....	M. F. liard and W. T. Travis.....	171,116	Dec. 14, 1875	432	144	8	1015
Hydrant, Water.....	J. W. Douglas.....	166,195	Aug. 3, 1875	12	4	8	200
Hydrants, Attachment to street.....	C. M. Vergnes.....	163,425	May 18, 1875	669	214	7	858
Hydrants from freezing, Preventing.....	B. Kent.....	171,228	Dec. 21, 1875	572	188	8	1042
Hydraulic adjustable press.....	M. Stannard.....	167,202	Aug. 31, 1875	1014	315	8	375
Hydraulic compress.....	E. D. Meier.....	169,280	Oct. 26, 1875	931	302	8	719
Hydraulic elevator.....	C. W. Baldwin.....	162,262	Apr. 20, 1875	623	203	7	671
Hydraulic elevator.....	P. Hinkle.....	164,300	June 8, 1875	437	145	7	1000
Hydraulic elevator.....	P. P. Lane and S. R. Smith.....	158,951	Jan. 19, 1875	577	191	7	118
Hydraulic elevator.....	W. B. Le Van.....	159,829	Feb. 16, 1875	569	190	7	275
Hydraulic elevator.....	T. Stebins.....	170,781	Dec. 7, 1875	116	37	8	966
Hydraulic engine.....	F. Rochow.....	161,441	Mar. 30, 1875	1135	366	7	535
Hydraulic engine.....	W. L. Smith.....	161,068	Mar. 23, 1875	762	251	7	480
Hydraulic jack.....	E. M. Dudgeon.....	162,044	Apr. 13, 1875	405	136	7	636
Hydraulic jack.....	M. J. Walsh.....	170,419	Nov. 23, 1875	1081	341	8	900
Hydraulic-lift dry-dock.....	T. A. Blake.....	168,603	Oct. 11, 1875	296	93	8	612
Hydraulic mains, Process and apparatus for preventing accumulation of tar in.....	D. H. Fox.....	167,755	Sept. 14, 1875	347	110	8	462
Hydraulic motor.....	A. Schmid.....	165,879	July 20, 1875	737	225	8	134
Hydraulic-pipe distributor.....	J. M. Crawford.....	163,363	May 18, 1875	618	197	7	851
Hydraulic press.....	C. Peper.....	163,606	May 25, 1875	859	270	7	890
Hydraulic press.....	C. Peper.....	163,607	May 25, 1875	859	271	7	890
Hydraulic press.....	J. F. Taylor.....	165,891	July 20, 1875	748	229	8	136
Hydrocarbon burner.....	J. W. Neeley.....	164,655	June 22, 1875	780	255	7	1064
Hydrocarbon burner and gas-generator.....	A. J. Griffin.....	171,278	Dec. 21, 1875	619	202	8	1048

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Hydrocarbon-burning apparatus	J. Nelson	167,352	Aug. 31, 1875	1142	359	8	393
Hydrocarbon furnace	C. M. Gearing	158,931	Jan. 19, 1875	560	186	7	116
Hydrocarbon furnace	H. Napier	160,027	Feb. 23, 1875	774	255	7	310
Hydrocarbon furnace	P. M. Qvist	169,583	Nov. 2, 1875	244	80	8	767
Hydrocarbon furnace	J. C. Ramsden	169,842	Nov. 9, 1875	525	164	8	810
Hydrocarbon furnace	H. M. Smith	170,198	Nov. 23, 1875	884	276	8	873
Hydrocarbon furnace and atomizing apparatus	R. D. Turner	158,759	Jan. 12, 1875	371	127	7	76
Hydrocarbon furnaces, Nozzle for	H. Stacey	165,431	July 13, 1875	360	89	8	57
Hydrocarbons, Automatic vapor-test for	J. Ponton	165,612	July 13, 1875	467	143	8	81
Hydrocarbons, Burning	O. T. Earle	159,751	Feb. 16, 1875	500	167	7	267
Hydrocarbons, Burning	J. W. Nystrom	167,684	Sept. 14, 1875	280	88	8	453
Hygroscope	O. Seebass and R. Simon	159,043	Jan. 26, 1875	688	227	7	140
I.							
Ice, Apparatus for manufacture of	E. C. and R. H. Negley and J. T. Cunningham	166,713	Aug. 17, 1875	522	160	8	289
Ice-boat	W. H. Fairbank	169,794	Nov. 9, 1875	480	151	8	805
Ice-box dip-trough	I. T. Dyer and G. Powell	164,983	June 29, 1875	1098	354	7	1112
Ice-breaker	J. T. Martin	166,793	Aug. 17, 1875	592	182	8	300
Ice-breaking attachment, Vessel	J. T. Martin	164,746	June 22, 1875	864	281	7	1075
Ice-breaking vessel	E. J. Weedermann	168,436	Oct. 5, 1875	101	35	8	579
Ice-cream carrier	H. W. Wyman	168,203	Sept. 28, 1875	793	252	8	541
Ice-cream freezer	J. W. Condon	165,545	July 13, 1875	409	122	8	73
Ice-cream freezer	W. Redheffer	165,615	July 13, 1875	472	144	8	82
Ice-cream freezer	L. B. Woolfolk	163,431	May 18, 1875	673	215	7	859
Ice-cream refrigerator	G. D. Adams	165,651	July 20, 1875	521	159	8	105
Ice-cream, Vessel for measuring	F. Watkins	166,667	Aug. 10, 1875	458	141	8	272
Ice-cream, &c., Vessel for measuring and handling	T. Burkhard	165,301	July 6, 1875	142	43	8	28
Ice-creeper	A. J. R. Phillips	166,630	Aug. 10, 1875	424	131	8	267
Ice-creeper	S. R. Phillips	159,447	Feb. 2, 1875	186	63	7	210
Ice-creeper	A. S. Willis	160,804	Mar. 16, 1875	531	172	7	436
Ice-cutting machine	C. Heisler and J. M. Deremer	162,919	May 4, 1875	164	54	7	769
Ice-cutting machine	J. Schater	167,413	Sept. 7, 1875	31	9	8	410
Ice-elevator	X. Wittner	160,250	Feb. 23, 1875	962	317	7	337
Ice-former	S. Krauss	160,601	Mar. 9, 1875	322	109	7	404
Ice-hook	D. C. Wood	165,778	July 20, 1875	633	194	8	120
Ice-machine	J. M. Beath	168,706	Oct. 11, 1875	376	123	8	626
Ice-machine	J. M. Beath	170,508	Nov. 30, 1875	1178	372	8	922
Ice-machine	W. H. H. Bowers	161,474	Mar. 30, 1875	1168	375	7	539
Ice-machine	D. Boyle	163,142	May 11, 1875	393	127	7	806
Ice-machine	D. Boyle	163,143	May 11, 1875	393	127	7	806
Ice-machine	D. Boyle	163,144	May 11, 1875	395	127	7	806
Ice-machine	T. Cook	171,267	Dec. 21, 1875	610	200	8	1047
Ice-machine	A. Jas	168,500	Oct. 5, 1875	161	53	8	588
Ice-machine	S. B. Martin	162,397	Apr. 20, 1875	753	245	7	687
Ice-machine	T. L. Rankin	171,168	Dec. 14, 1875	488	161	8	1022
Ice-machine	A. H. Tait	162,432	Apr. 20, 1875	785	255	7	691
Ice-machine	A. H. Tait	163,279	May 11, 1875	521	169	7	822
Ice-machine pipes, Cleaning obstructions from	W. H. H. Mallory	167,181	Aug. 31, 1875	998	.....	8	372
Ice-machines, Refrigerating-tank for	A. Jas	162,659	Apr. 27, 1875	1006	322	7	727
Ice-making apparatus	W. Hood	160,596	Mar. 9, 1875	318	107	7	403
Ice manufacture and machine	S. B. Martin and J. M. Beath	161,976	Apr. 13, 1875	348	117	7	629
Ice-pick	M. Cowles	167,745	Sept. 14, 1875	332	106	8	460
Ice-pick	S. Lindley	159,273	Feb. 2, 1875	28	10	7	188
Ice-pick	W. C. Russell	161,282	Mar. 23, 1875	971	317	7	506
Ice-pick and can-opener, Combined	T. Hagerty	162,729	July 20, 1875	589	181	8	114
Ice-pick, chisel, and hammer, Combined	A. V. M. Sprague	162,864	May 4, 1875	118	38	7	762
Ice-picker and strainer, Combined	T. Hagerty	159,545	Feb. 9, 1875	305	98	7	233
Ice-pitcher	L. Evans	161,769	Apr. 6, 1875	154	53	7	591
Ice-plow	R. W. Sanborn	165,427	July 13, 1875	295	87	8	56
Ice, Storing and removing	A. Hunt	164,001	June 1, 1875	135	48	7	949
Ice-tongs	N. P. Nelson	171,413	Dec. 21, 1875	740	243	8	1064
Ice-tongs, &c., to wagons, Device for locking	L. D. Ormsby	163,236	May 11, 1875	480	156	7	817
Imitation fabrics, Manufacture of	C. H. Knelles	165,420	July 13, 1875	288	85	8	55
Implement, Combined	P. Broadbooks	170,934	Dec. 14, 1875	264	88	8	993
Implement, Combined	L. Schaeffer	171,487	Dec. 28, 1875	824	270	8	1084
Implement, Compound	E. L. Price	159,841	Feb. 16, 1875	580	193	7	277
Imposing and printing from newspaper-forms, Method of	W. D. Hughes	165,833	July 20, 1875	695	.....	8	128
Inclosure or play-house for children	H. J. Parker	169,471	Nov. 2, 1875	135	44	8	753
Incrustating compound, Anti	H. Burgess	168,222	Sept. 28, 1875	806	.....	8	543
Incubator	A. Corbett	164,810	June 22, 1875	925	299	7	1082
Incubator	C. C. Weston	161,722	Apr. 6, 1875	111	39, 40	7	585
Index	C. H. Bradley	163,973	June 1, 1875	111	38	7	946
Index	A. J. Jones	160,437	Mar. 2, 1875	161	56	7	371
Index	M. A. Lovell	166,284	Aug. 3, 1875	93	28	8	212
Index	C. W. Seaton	163,267	May 11, 1875	510	{ 165 } { 166 }	7	821
Index	C. Virgo	160,367	Mar. 2, 1875	97	36	7	363
Index clip-board	T. Orton	171,415	Dec. 21, 1875	741	243	8	1064
Index cutting and clipping machine	H. H. Edwards	168,468	Oct. 5, 1875	129	44	8	583
Index-table, Gage for cutting	W. N. Lovell	170,959	Dec. 14, 1875	288	97	8	996
Indexing books, Machine for	F. R. Alderman	160,137	Feb. 23, 1875	864	286	7	323
Indicator:							
See High and low water indicator.	Speed-indicator.						
Level and slope indicator.	Station-indicator.						
Low-water indicator.	Steam-boiler indicator.						
Navigator's bearing-indicator.	Steam-engine pyrometrical indicator.						
Price-indicator.	Valve-indicator.						
Revolution-indicator.	Water and steam indicator.						
Sewer-junction indicator.							

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Indicator.....	F. Ward and M. E. Amsden.....	162,992	May 11, 1875	258	83	7	789
Indicator.....	W. L. Gallaudet.....	168,475	Oct. 5, 1875	137	40	8	585
Indicator-lock.....	J. H. Kinsman.....	162,663	Apr. 27, 1875	1010	{ 323 324 }	{ 7 7 }	728
Indicator-lock.....	L. R. Norman.....	170,889	Dec. 7, 1875	295	71	8	978
Induction-coil.....	J. R. Chislett.....	168,451	Oct. 5, 1875	116	39, 40	8	582
Induction-coil.....	J. C. Vetter.....	166,488	Aug. 10, 1875	305	92	8	249
Infusions and beverages, Composition for.....	W. A. Martin.....	170,286	Nov. 23, 1875	962	.....	8	881
Ingot-mold.....	J. Illingworth.....	166,700	Aug. 17, 1875	507	155	8	287
Ingot-mold.....	T. P. Moorwood.....	158,728	Jan. 12, 1875	348	118	7	73
Inhaler.....	C. R. Sykes.....	166,729	Aug. 17, 1875	536	164	8	292
Inhaler, Nasal.....	J. H. Yates and C. R. Treat.....	167,209	Aug. 31, 1875	1021	317	8	375
Inhaler, Pocket.....	T. E. Daniels.....	165,799	July 20, 1875	656	202	8	123
Injector.....	S. Fowden.....	166,762	Aug. 17, 1875	565	173	8	296
Injector.....	G. H. Little.....	165,843	July 20, 1875	765	215	8	129
Injector.....	W. H. Newell.....	161,815	Apr. 6, 1875	196	66	7	597
Injector.....	W. P. Patton.....	162,852	May 4, 1875	106	34	7	761
Injector.....	W. P. Patton.....	164,027	June 1, 1875	159	56	7	952
Injector attachment.....	D. Lees.....	159,587	Feb. 9, 1875	334	110	7	238
Injector for aero-steam engines, Air.....	W. M. Storm.....	168,678	Oct. 11, 1875	352	115	8	623
Injector or ejector, Steam-engine.....	G. H. Little.....	163,876	June 1, 1875	35	11	7	935
Injector, Steam.....	D. Fergus.....	162,368	Apr. 20, 1875	721	235	7	683
Injector, Steam-boiler.....	W. T. Messinger.....	170,756	Dec. 7, 1875	94	30	8	963
Injector, Steam-boiler.....	W. Randall.....	170,299	Nov. 23, 1875	973	304	8	885
Ink, Copying.....	A. J. Dexter.....	167,878	Sept. 21, 1875	473	.....	8	489
Ink-powder.....	W. A. Bonney.....	170,513	Nov. 30, 1875	1185	.....	8	923
Ink, Preparing carmine printing.....	C. J. and C. Briedbach.....	168,134	Sept. 28, 1875	729	.....	8	532
Ink-saucer, Draftsman's.....	F. Stith.....	169,597	Nov. 2, 1875	258	83	8	769
Ink-well.....	C. H. Brown.....	161,926	Apr. 13, 1875	319	103	7	624
Inkstand.....	S. Darling.....	164,171	Feb. 23, 1875	895	295	7	327
Inkstand.....	S. Darling.....	164,721	June 22, 1875	843	274	7	1072
Inkstand.....	S. Darling.....	169,152	Oct. 26, 1875	818	265	8	703
Inkstand.....	H. Schirmer.....	169,735	Nov. 9, 1875	414	131	8	796
Inkstand-base.....	S. Rosenfeld.....	168,673	Oct. 11, 1875	349	114	8	622
Inkstand-cover.....	J. N. Wallis and F. M. Harbach.....	159,724	Feb. 9, 1875	454	152	7	255
Inlaying jet with metal.....	W. Stephans.....	162,586	Apr. 27, 1875	944	303	7	719
Insect-destroyer.....	W. T. Tongue.....	162,716	Apr. 27, 1875	1070	{ 340 341 }	{ 7 7 }	734
Insect-destroying composition.....	J. B. Douglass and E. S. Green.....	164,533	June 15, 1875	661	.....	7	1039
Insect-destroying compound.....	G. W. Davis.....	166,917	Aug. 24, 1875	723	.....	8	317
Insect-destroying compound.....	E. Wilkins.....	165,289	July 6, 1875	131	.....	8	27
Insect-destroying furnace.....	W. F. Woolsey.....	167,722	Sept. 14, 1875	313	99	8	458
Insect-powder box.....	W. J. Van Patten.....	165,276	July 6, 1875	119	36	8	25
Insect-powder injector.....	A. Meyer.....	163,877	June 1, 1875	36	12	7	935
Insects, Device for applying compounds to plants for destroying.....	O. S. Warner.....	162,781	May 4, 1875	42	13	7	752
Insects, Metal switch for killing.....	S. A. Dorrisson.....	161,870	Apr. 13, 1875	260	87	7	617
Insulating-block for telegraph-wires.....	G. S. Pidgeon.....	161,058	Mar. 23, 1875	754	248	7	479
Insulating compound.....	I. Smith.....	158,868	Jan. 19, 1875	495	167	7	108
Insulating metal wire.....	H. Splitdorf.....	171,185	Dec. 14, 1875	501	165	8	1024
Insulating telegraph-wire, Compound for.....	A. A. Maglaughlin.....	163,221	May 11, 1875	466	.....	7	815
Invalid-chair.....	W. Burch.....	161,748	Apr. 6, 1875	137	47	7	588
Iron:							
See Carriage-seat iron.....	Plow-iron.....						
Curling-iron.....	Polishing or sad iron.....						
Fire-iron.....	Sad-iron.....						
Flat-iron.....	Sad and fluting iron.....						
Fluting iron.....	Sheet-iron.....						
Fluting and polishing-iron.....	Soldering-iron.....						
Hat-iron.....	Vehicle chafing-iron.....						
Holdback-iron.....	Wagon-body stay-iron.....						
Plane-iron.....	Wrought-iron.....						
Iron and steel, Apparatus for manufacturing.....	J. B. Pearse.....	164,029	June 1, 1875	161	57, 58	7	953
Iron and steel direct from ore, Furnace for the manufacture of.....	W. A. Stephens.....	167,800	Sept. 14, 1875	388	124	8	468
Iron and steel from the ore, Apparatus for producing.....	W. A. Little.....	169,560	Nov. 2, 1875	219	72	8	764
Iron and steel, Manufacture of.....	A. G. Cook.....	166,454	Aug. 10, 1875	278	.....	8	246
Iron and steel, Manufacture of.....	E. A. and J. A. Jones.....	171,024	Dec. 14, 1875	348	.....	8	1004
Iron and steel, Manufacture of.....	C. W. Siemans.....	159,712	Feb. 9, 1875	442	{ 148 149 }	{ 7 7 }	254
Iron chair, Adjustable.....	G. Wilson.....	162,447	Apr. 20, 1875	801	260	7	692
Iron, &c., Compound for coating.....	D. R. Brownlow and G. W. Francis.....	165,658	July 20, 1875	527	.....	8	105
Iron-cutting machine.....	J. A. Lakey and J. G. Mills.....	171,233	Dec. 21, 1875	579	189	8	1042
Iron into steel, Converting.....	M. S. Foot and G. R. Henry.....	159,402	Feb. 2, 1875	145	.....	7	205
Iron into steel, Converting old.....	A. Julien.....	163,080	May 11, 1875	338	.....	7	799
Iron into steel, Process of converting.....	C. L. Jeffords.....	170,173	Nov. 23, 1875	863	.....	8	870
Iron, Manufacture of.....	J. F. Bennett.....	161,320	Mar. 30, 1875	1021	.....	7	521
Iron, Manufacture of.....	A. C. Lewis.....	168,263	Sept. 28, 1875	844	.....	8	549
Iron, Manufacture of sheet.....	J. Ellis.....	163,857	June 1, 1875	20	6	7	933
Iron, Melting and treating.....	W. Schleicher, jr.....	168,293	Sept. 28, 1875	868	278	8	552
Iron, Pile for bar.....	W. F. Durfee.....	162,159	Apr. 20, 1875	529	174	7	659
Iron polishing machine, Sheet.....	D. M. Reynolds.....	164,329	June 8, 1875	462	153	7	1004
Iron post, Wrought.....	L. Soulerin.....	168,851	Oct. 19, 1875	517	170	8	654
Iron, Process and furnace for manufacturing.....	G. J. and S. J. Shimer.....	165,375	July 6, 1875	213	64, 65	8	38
Iron, Refining cast.....	A. Warner.....	170,420	Nov. 23, 1875	1081	.....	8	901
Iron tubes, Machine for rounding and sealing the ends of wrought.....	D. C. Stilson.....	163,588	Oct. 11, 1875	273	88	8	610
Ironing and kitchen table.....	A. Aitken.....	164,704	June 22, 1875	828	270	7	1070
Ironing apparatus.....	J. G. Crawford.....	161,594	Apr. 6, 1875	6	2	7	569
Ironing apparatus.....	J. W. Gardner.....	164,441	June 15, 1875	584	190	7	1029
Ironing apparatus.....	R. H. Gardner.....	169,250	Oct. 26, 1875	904	293	8	715
Ironing apparatus.....	N. Hall.....	164,832	June 22, 1875	943	305	7	1085
Ironing apparatus.....	H. E. Smith.....	166,647	Aug. 10, 1875	440	136	8	269

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Ironing apparatus	H. E. Smith	166,648	Aug. 10, 1875	441	136	8	270
Ironing apparatus	H. E. Smith	167,580	Sept. 7, 1875	176	55	8	431
Ironing-board	H. C. Green	162,815	May 4, 1875	73	23	7	756
Ironing-board	G. E. Hollister	164,998	June 29, 1875	1112	358	7	1114
Ironing-board	A. Iske	158,844	Jan. 19, 1875	474	159	7	105
Ironing-board	M. E. Moore	161,053	Mar. 23, 1875	750	247	7	478
Ironing-board	S. B. Morrell	159,111	Jan. 26, 1875	750	246	7	149
Ironing-board	O. S. Pride	166,809	Aug. 17, 1875	607	188	8	302
Ironing-board	W. M. Tobey	169,600	Nov. 2, 1875	360	84	8	769
Ironing-board	J. Watson	168,069	Sept. 21, 1875	653	207	8	514
Ironing-board and step-ladder, Combined	I. L. Landis	158,718	Jan. 12, 1875	340	116	7	72
Ironing-machine	G. F. Perrenot	162,854	May 4, 1875	169	35	7	761
Ironing-table	J. L. Brown	164,966	June 29, 1875	1085	350	7	1110
Ironing-table	O. F. Burlingame	164,258	June 8, 1875	396	134	7	995
Ironing-table	G. K. Edwards	159,752	Feb. 16, 1875	501	167	7	267
Ironing-table	J. W. Field	167,886	Sept. 21, 1875	481	152	8	490
Ironing-table	J. Finfrock	170,837	Dec. 7, 1875	163	55	8	972
Ironing-table	S. W. Fraley	164,288	June 8, 1875	425	142	7	999
Ironing-table	P. H. Gafney	163,371	May 18, 1875	625	200	7	852
Ironing-table	A. C. Gilbert	160,893	Mar. 16, 1875	601	196	7	449
Ironing-table	W. P. Hall	170,848	Dec. 7, 1875	172	59	8	973
Ironing-table	S. C. Hamlin	160,901	Mar. 16, 1875	608	198	7	449
Ironing-table	J. S. Hays	170,366	Nov. 23, 1875	1028	323	8	894
Ironing-table	E. S. Heath	165,672	July 20, 1875	540	115	8	107
Ironing-table	Z. M. Hibbard	164,171	June 8, 1875	316	107	7	985
Ironing-table	H. P. Hinz and F. Gehrke	163,199	May 11, 1875	450	145	7	813
Ironing-table	W. J. Hughes and J. A. Lockard	167,535	Sept. 7, 1875	133	42	8	425
Ironing-table	E. B. Lake	160,208	Feb. 23, 1875	926	304	7	332
Ironing-table	A. Larkin	159,688	Feb. 9, 1875	423	140	7	251
Ironing-table	L. P. Lawrence	171,393	Dec. 21, 1875	723	237	8	1061
Ironing-table	E. C. McClain	166,881	Aug. 17, 1875	677	210	8	312
Ironing-table	M. Newman	167,112	Aug. 24, 1875	911	284	8	333
Ironing-table	T. R. Roland	160,236	Feb. 23, 1875	952	312	7	336
Ironing-table	C. Rumens	165,511	July 13, 1875	378	112	8	68
Ironing-table	A. H. Swain	169,826	Nov. 16, 1875	615	191	8	830
Ironing-table	G. H. Thompson	162,587	Apr. 27, 1875	945	303	7	719
Ironing-table	E. J. Wolfrom	162,133	Apr. 13, 1875	487	161	7	646
Ironing-table	J. N. Wunderlich	165,908	July 20, 1875	764	233	8	138
J.							
Jack:							
See Boot-jack.	Painter's jack.						
Carriage-jack.	Pegging-jack.						
Carrying-jack.	Pressing and stowing-jack.						
Chimney-jack.	Spinning-jack.						
Cotton-jack.	Thill-coupling jack.						
Hydraulic jack.	Wagon-jack.						
Lifting-jack.							
Jacket, Hunting	H. L. Daigre	168,622	Oct. 11, 1875	302	98	8	615
Jails, Construction of	J. A. Seeber and J. C. Croxton	168,929	Oct. 19, 1875	591	195	8	664
Jar:							
See Covered jar.	Preserving-jar.						
Fruit-jar.	Stoneware-jar.						
Jar-lifter	W. W. Brower	164,968	June 29, 1875	1088	350	7	1110
Jelly-cup	E. F. Cash	170,815	Dec. 7, 1875	145	48	8	970
Jelly-press	W. W. Bostwick	162,147	Apr. 20, 1875	516	170	7	658
Jelly-press, Hand	V. Knecht	163,210	May 11, 1875	457	148	7	814
Jeweler's screw-press	J. E. Potter and A. J. Richardson	167,019	Aug. 24, 1875	822	256	8	341
Jewelry, Braided	W. W. Alden	169,940	Nov. 16, 1875	627	194	8	831
Jewelry, Die for forming bezels on metallic backs for	C. Knapp	161,969	Apr. 13, 1875	343	115	7	628
Jewelry, Die for making metallic bases for	G. Stetter	160,967	Mar. 16, 1875	607	218	7	458
Jewelry-pin	I. B. Abrahams	166,057	July 27, 1875	917	283	8	171
Jib-hank	C. W. Clements	163,577	May 25, 1875	827	262	7	886
Jigger	J. B. Wilford	168,698	Oct. 11, 1875	370	121	8	625
Joiner's clamp	W. J. Donley	167,314	Aug. 31, 1875	1109	349	8	359
Joiner's clamp	D. A. Fisher, jr.	162,281	Apr. 20, 1875	639	209	7	673
Joiner's clamp	G. A. Naumann	169,027	Oct. 19, 1875	682	224	8	676
Joint:							
See Bridge-joint.	Railway-rail joint.						
Felly-joint.	Shell-joint.						
Glue-joint.	Stove-pipe joint.						
Hose-joint.	Tube-joint.						
Lead-pipe joint.	Universal-joint.						
Pipe-joint.	Vehicle-top joint.						
Plumber's joint.							
Journal and bearing	G. A. Chapman	161,665	Apr. 6, 1875	68	24	7	579
Journal balance-wheel	T. Van Dyke	161,915	Apr. 13, 1875	299	100	7	623
Journal-bearing	G. Draper	171,359	Dec. 21, 1875	688	227	8	1057
Journal-bearing	A. B. G. A. Williams	165,397	July 6, 1875	245	74	8	41
Journal-bearing and pitman-connection	C. Wheeler, jr.	163,707	May 25, 1875	938	298	7	900
Journal-bearings, Composition for	L. W. Lathrop and T. A. Weber	165,937	July 27, 1875	807	267	8	156
Journal-bearings, Heat-indicator for	S. Alley	165,730	July 20, 1875	635	195	8	130
Journal-box	D. A. Deming and S. W. Wickes	158,575	Jan. 12, 1875	212	72	7	54
Journal-box	P. Durno	169,243	Oct. 26, 1875	896	291	8	714
Journal-box	L. J. Ives and J. Leary	159,579	Feb. 9, 1875	327	107	7	237
Journal-box	J. Schellkopf	168,787	Oct. 11, 1875	450	147	8	636
Journal-box	J. F. Seiberling	169,049	Oct. 19, 1875	702	232	8	679
Journal-box for shaft-hangers	J. Greenwood	159,260	Feb. 2, 1875	19	6	7	187
Journal-box lubricator	H. E. Smith	170,907	Dec. 7, 1875	222	76	8	980
Journal-box, Self-lubricating	W. Dame	163,160	May 11, 1875	412	134	7	808
Journal stud or crank-pin	O. E. Seymour	163,892	June 1, 1875	47	16	7	937
Jug and saucer, Combined	A. French	170,946	Dec. 14, 1875	276	92	8	995

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Jug-top.....	H. Wright.....	163, 560	May 18, 1875	798	253	7	874
K.							
Kaleidorama.....	A. C. Ferris and C. E. School...	163, 173	May 11, 1875	424	137	7	810
Kaleidoscope.....	J. F. Adams.....	169, 882	Nov. 16, 1875	577	179	8	825
Keel for boats.....	A. Stevenson.....	167, 036	Aug. 24, 1875	834	260	8	343
Kegs, Manufacturing of nail.....	S. F. Maxwell.....	159, 945	Feb. 16, 1875	677	224	7	290
Kettle for heating or cooking by steam.....	G. W. Walker.....	160, 857	Mar. 16, 1875	570	186	7	444
Kettles, Copper bottom for.....	A. Cummings.....	163, 747	May 25, 1875	975	309	7	905
Key:							
See Door-key. Telegraph-key.							
Hose-key. Watch-key.							
Organ-key.							
Key-book.....	J. H. Gates.....	170, 668	Dec. 7, 1875	14	4	8	953
Key-fastener.....	R. F. Gibson.....	162, 282	Apr. 20, 1875	639	209	7	673
Key-fastener.....	J. Knight.....	167, 674	Sept. 14, 1875	271	85	8	451
Key-fastener.....	B. J. Loomis.....	167, 107	Aug. 24, 1875	906	283	8	352
Key-fastener.....	H. Stretcher.....	163, 822	May 25, 1875	1037	328	7	914
Key-fastener.....	J. Thornton.....	162, 259	Apr. 20, 1875	620	202	7	671
Key-fastener.....	W. W. White.....	168, 693	Oct. 11, 1875	363	119	8	624
Key-fastener, Adjustable.....	E. B. Everitt.....	164, 281	June 8, 1875	418	140	7	998
Key-holder.....	F. W. Coleman.....	165, 794	July 20, 1875	651	200	8	122
Key-hole escutcheon.....	H. T. Blake.....	159, 382	Feb. 2, 1875	125	44	7	262
Key-hole guard.....	F. W. Bechmann.....	170, 701	Dec. 7, 1875	44	13	8	956
Key-hole guard.....	J. Goldstein.....	164, 992	June 29, 1875	1106	357	7	1113
Key-hole guard.....	J. La Blanc and X. St. Pierre.....	169, 178	Oct. 26, 1875	840	274	8	707
Key-hole guard for locks.....	H. Cochems.....	168, 375	Oct. 5, 1875	50	18	8	572
Key-ring.....	W. L. Denio and W. E. Neer.....	168, 832	Oct. 19, 1875	501	163	8	651
Key-ring.....	G. W. Jopson.....	168, 258	Sept. 28, 1875	839	268	8	548
Key-ring.....	J. H. Sanford.....	164, 105	June 8, 1875	258	88	7	977
Key-ring.....	N. Stafford.....	161, 174	Mar. 23, 1875	863	282	7	492
Key-ring.....	H. Tilden.....	160, 970	Mar. 16, 1875	670	219	7	458
Kiln:							
See Brick-kiln. Lime-kiln.							
Calcining-kiln. Malt-kiln.							
Charcoal-kiln. Peat-kiln.							
Drying-kiln.							
Kindling material.....	W. S. Tisdale.....	159, 001	Jan. 19, 1875	627	.....	7	125
King-bolt.....	C. G. Lazear.....	161, 799	Apr. 6, 1875	178	61	7	595
King-bolt.....	L. Pentz.....	161, 150	Mar. 23, 1875	844	275	7	489
King-bolt.....	A. G. Pickett, jr.....	169, 728	Nov. 9, 1875	408	129	8	796
King-bolt bearing.....	G. J. Orr.....	158, 971	Jan. 19, 1875	597	198	7	121
King-bolt, Vehicle.....	E. Freeman.....	166, 693	Aug. 17, 1875	502	153	8	286
King-bolt, Wagon.....	W. Truax.....	166, 323	Aug. 3, 1875	126	39	8	217
Kitchen-table.....	J. C. Ricketts.....	162, 288	Sept. 28, 1875	865	277	8	551
Kitchen-tool.....	J. A. Simonds.....	163, 416	May 18, 1875	663	212	7	857
Kitchen utensil.....	J. C. Noble.....	170, 888	Dec. 7, 1875	204	71	8	978
Kitchen utensil.....	T. S. Page.....	170, 295	Nov. 23, 1875	969	303	8	885
Kitchen-ventilator.....	J. V. Montgomery.....	170, 880	Dec. 7, 1875	197	68	8	977
Kneading-board.....	T. M. Hobson.....	163, 200	May 11, 1875	450	145	7	813
Kneading-roller.....	D. C. Knowles.....	164, 095	June 8, 1875	250	86	7	976
Knife:							
See Corn-stalk knife. Pocket-knife.							
Harness-knife. Shoe-knife.							
Harvester-knife. Shoemaker's knife.							
Hay-knife. Tobacco-knife.							
Mowing-machine knife. Welt-knife.							
Oyster-knife.							
Knife and tape-line, Combined.....	G. S. Hastings.....	166, 099	July 27, 1875	961	296	8	177
Knife-cleaner.....	F. A. Phillips.....	162, 415	Apr. 20, 1875	771	250	7	689
Knife, corkscrew, and shield, Combined.....	J. S. Jenness.....	161, 124	Mar. 23, 1875	822	269	7	487
Knife-grinding machine.....	J. S. Elliott.....	163, 369	May 18, 1875	623	199	7	852
Knife-polisher.....	A. M. De Hart.....	168, 237	Sept. 28, 1875	819	260	8	545
Knife-scourer.....	J. H. Clapham.....	168, 083	Sept. 28, 1875	678	215	8	525
Knife-scouring machine.....	C. G. Singer.....	167, 200	Aug. 31, 1875	1012	315	8	375
Knife sharpener and polisher.....	E. A. Bushell.....	168, 717	Oct. 11, 1875	386	126	8	627
Knit fabric.....	F. A. Calley.....	164, 362	June 15, 1875	509	168	7	1019
Knit goods, &c., Uniting.....	H. A. Blanchard.....	167, 492	Sept. 7, 1875	96	30	8	420
Knitted garment.....	N. H. Bruce.....	159, 891	Feb. 16, 1875	630	209	7	283
Knitted trimming.....	G. M. Gernshym.....	163, 985	June 1, 1875	121	41	7	947
Knitting-machine.....	C. J. Appleton.....	169, 331	Nov. 2, 1875	5	2	8	735
Knitting-machine.....	C. J. Appleton.....	171, 466	Dec. 28, 1875	801	264	8	1081
Knitting-machine.....	D. Bickford.....	162, 886	May 4, 1875	135	44	7	765
Knitting-machine.....	D. Bickford.....	162, 216	Sept. 28, 1875	801	255	8	543
Knitting-machine.....	W. W. Burson and J. Nelson.....	170, 468	Nov. 30, 1875	1142	360	8	917
Knitting-machine.....	E. P. Curtiss.....	159, 750	Feb. 16, 1875	499	167	7	266
Knitting-machine.....	E. P. Curtiss.....	161, 008	Mar. 23, 1875	709	234	7	473
Knitting-machine.....	J. Kent and E. Leeson.....	160, 685	Mar. 9, 1875	392	132 } 133 }	7	414
Knitting-machine.....	I. and A. Tompkins.....	166, 321	Aug. 3, 1875	125	39	8	217
Knitting-machine and knit fabrics.....	F. Burns.....	167, 301	Aug. 31, 1875	1098	345	8	387
Knitting machine, Circular.....	E. P. Curtiss.....	161, 009	Mar. 23, 1875	711	235	7	473
Knitting-machine for making bullion fringe.....	E. P. Curtiss.....	165, 311	July 6, 1875	152	46	8	29
Knitting-machine measuring device.....	J. P. Reisinger.....	163, 410	May 18, 1875	659	210	7	856
Knitting-machine needle.....	C. J. Appleton.....	169, 943	Nov. 16, 1875	630	195	8	831
Knitting-machine needle.....	S. Peberdy.....	162, 412	Apr. 20, 1875	768	249	7	688
Knitting-machine take-up.....	I. and A. Tompkins.....	163, 119	May 11, 1875	371	121	7	803
Knitting-machine, Weft-thread.....	C. L. Spencer.....	160, 478	Mar. 2, 1875	198	68	7	377
Knitting-machine, Weft-thread.....	N. W. Wescott.....	166, 831	Aug. 17, 1875	623	194	8	305
Knitting-machines, Landing-wheel for.....	R. W. Gormly.....	168, 983	Oct. 19, 1875	638	211	8	671
Knitting stockings, &c.....	F. W. Polle, L. Keisker, and S. Polle.....	167, 563	Sept. 7, 1875	161	51	8	429
Knob, Door.....	J. W. Haines.....	159, 509	Feb. 9, 1875	273	88	7	229

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Knob, Door	S. Hiler	160,908	Mar. 16, 1875	613	200	7	450
Knob, Door	C. Rebstock	162,418	Apr. 20, 1875	772	251	7	689
Knob fastening, Door	J. B. Wells	159,486	Feb. 2, 1875	231	75	7	216
Knob-rose	S. Hiler	160,907	Mar. 16, 1875	612	200	7	450
Knob-rose	J. Moore	167,266	Aug. 31, 1875	1068	333	8	382
Knob-shanks, Manufacture of metal	J. P. Adams	165,972	July 27, 1875	839	258	8	160
Knobs and handles, Swing-joint for	E. M. Lockwood	171,027	Dec. 14, 1875	350	117	8	1004
Knobs, Process of manufacturing porcelain door	N. Beck	168,826	Oct. 19, 1875	496	162	8	651
Knobs to spindles, Attaching	C. Coleman	169,421	Nov. 2, 1875	92	28	8	747
Knock-down table	F. P. Beaver	169,764	Nov. 9, 1875	451	142	8	801
L.							
Label and tag machine	C. E. Sawyer	166,940	Aug. 24, 1875	744	230	8	330
Label-holder	C. F. Barker	163,566	May 25, 1875	818	259	7	885
Lace-machine	E. Malhere	165,941	July 27, 1875	810	248 249	8	156
Ladder	D. Argerbright	159,627	Feb. 9, 1875	362	120	7	243
Ladder	W. Case and J. H. Read, jr.	169,236	Oct. 26, 1875	890	289	8	713
Ladder	I. and C. Erskine	162,364	Apr. 20, 1875	718	234	7	682
Ladder	A. S. Miller	166,883	Aug. 17, 1875	679	210	8	312
Ladder, Extensible	E. Clark	163,049	May 11, 1875	309	99 100	7	795
Ladder, Extensible fire	J. M. Birchler	163,725	May 25, 1875	956	303	7	903
Ladder, Extensible fire	B. F. Covel, R. L. Chace, and J. M. Weaver. }	163,580	May 25, 1875	830	262 263	7	886
Ladder, Extension	W. T. Core	168,378	Oct. 5, 1875	53	19	8	572
Ladder, Extension	J. M. Davis	161,010	Mar. 23, 1875	712	235	7	473
Ladder, Extension	W. B. Elliott	163,856	June 1, 1875	18	6	7	933
Ladder, Extension	R. Gilchrist	164,442	June 15, 1875	585	199	7	1029
Ladder, Extension	J. B. Mahony	159,521	Feb. 9, 1875	285	92	7	231
Ladder, Fire-escape	M. Davis	159,022	Jan. 26, 1875	671	219	7	138
Ladder, Fire-escape	J. A. Grishon	170,846	Dec. 7, 1875	170	58	8	973
Ladder, Fire-escape	A. Oberndorf, jr., and E. Frank ..	158,730	Jan. 12, 1875	350	119	7	73
Ladder, Fire-escape	D. Sanford	158,984	Jan. 19, 1875	611	203	7	123
Ladder, Fire-escape	D. Sanford	164,769	June 22, 1875	880	287	7	1077
Ladder, Firemen's	P. P. Carnes	160,081	Feb. 23, 1875	821	269	7	317
Ladder, Firemen's	M. Cronin	168,233	Sept. 28, 1875	815	259	8	545
Ladder, Firemen's	C. Ward	168,947	Oct. 19, 1875	603	200	8	666
Ladder, Firemen's extension	A. Ames	165,525	July 13, 1875	388	116	8	70
Ladder, Firemen's extension	H. Bastian, sr.	162,882	May 4, 1875	132	43	7	764
Ladder, Firemen's extension	S. Konz	167,342	Aug. 31, 1875	1134	356 357	8	392
Ladder, Firemen's extension	P. Peterson	162,856	May 4, 1875	110	35	7	761
Ladder, Firemen's extension	J. D. Rowland	165,618	July 13, 1875	477	145	8	83
Ladder, Firemen's folding	J. C. Christinger	168,875	Oct. 19, 1875	537	176	8	657
Ladder, Step	J. Blauvelt	163,044	May 11, 1875	306	98	7	794
Ladder, Step	G. Grunewald	159,319	Feb. 2, 1875	77	26	7	194
Ladder, Step	B. G. Hildreth	164,683	June 22, 1875	804	263	7	1067
Ladder, Step	J. L. Isaacs and R. Holliday	162,075	Apr. 13, 1875	431	144	7	639
Ladder, Step	J. L. Isaacs and R. Holliday	163,205	May 11, 1875	453	146	7	813
Ladder, Step	M. N. Lovell	170,900	Dec. 14, 1875	388	97	8	997
Ladder, Step	W. L. Potter	161,059	Mar. 23, 1875	754	248	7	479
Ladder, Step	J. J. Stephan	167,037	Aug. 24, 1875	834	260	8	343
Ladder, Step	H. P. Stichter	163,114	May 11, 1875	368	120	7	803
Ladder, Step	R. S. Van Zandt	159,126	Jan. 26, 1875	761	250	7	151
Ladle	S. Curtis and E. H. Rowley	165,071	June 29, 1875	1175	378	7	1123
Ladle-stopper	H. Swank	161,644	Apr. 6, 1875	48	18	7	576
Lamp	A. Albertson	160,069	Feb. 23, 1875	811	266	7	315
Lamp	J. S. and T. B. Atterbury	164,669	June 22, 1875	792	259	7	1065
Lamp	C. E. Ball	171,081	Dec. 14, 1875	402	133	8	1011
Lamp	G. A. Beidler	166,582	Aug. 10, 1875	381	117	8	261
Lamp	E. Blackman	167,871	Sept. 21, 1875	467	148	8	488
Lamp	A. M. Blake	159,351	Feb. 2, 1875	124	43, 44	7	201
Lamp	J. W. Carter	170,522	Nov. 30, 1875	1190	376	8	924
Lamp	J. W. Carter	170,523	Nov. 30, 1875	1191	376	8	924
Lamp	J. A. Everts	171,111	Dec. 14, 1875	429	143	8	1015
Lamp	A. French	171,608	Dec. 28, 1875	939	307	8	1099
Lamp	J. B. Godwin	165,726	July 20, 1875	536	180	8	114
Lamp	F. Kampfe	160,683	Mar. 9, 1875	390	132	7	414
Lamp	J. Mayer	167,348	Aug. 31, 1875	1140	358	8	393
Lamp	C. McKinnon	164,016	June 1, 1875	150	53	7	951
Lamp	R. S. Merrill	163,505	May 18, 1875	748	238	7	868
Lamp	H. G. Moebing	159,700	Feb. 9, 1875	432	145	7	252
Lamp	S. S. Newton	167,113	Aug. 24, 1875	911	284	8	353
Lamp	B. B. Schneider	167,128	Aug. 24, 1875	924	288	8	355
Lamp	B. B. Schneider	167,792	Sept. 14, 1875	380	122	8	467
Lamp	C. F. Spencer	171,537	Dec. 28, 1875	872	285	8	1090
Lamp	G. M. Stevens	171,540	Dec. 28, 1875	874	286	8	1090
Lamp	A. G. Storey and T. J. Lewis	160,848	Mar. 16, 1875	564	183	7	443
Lamp	F. A. Taber	169,497	Nov. 2, 1875	156	51	8	756
Lamp	G. W. Vernon	169,318	Oct. 26, 1875	971	315	8	724
Lamp and gas-machine, Combined street	G. T. Parry	165,490	July 13, 1875	366	108	8	66
Lamp and lantern, Combined	G. A. Beidler	164,254	June 8, 1875	392	133	7	995
Lamp and oil-can, Combined	W. Roberts	164,766	June 22, 1875	878	286	7	1077
Lamp attachment	T. C. Lawrence	161,798	Apr. 6, 1875	178	61	7	594
Lamp attachment	L. Tobey	167,281	Aug. 31, 1875	1079	337	8	384
Lamp-black apparatus	P. Neff	162,679	Apr. 27, 1875	1033	330	7	730
Lamp-black apparatus	P. Neff	166,936	Aug. 24, 1875	739	229	8	329
Lamp-black, Apparatus for making	P. Neff	163,027	May 11, 1875	291	94	7	793
Lamp-black, Apparatus for manufacture of	J. Howarth	161,039	Mar. 23, 1875	738	243	6	476
Lamp-black, Apparatus for manufacture of	P. Neff	162,492	Apr. 27, 1875	864	277	7	709
Lamp-black, Gas-burner for the manufacture of	P. Neff	160,787	Mar. 16, 1875	516	166	7	437
Lamp-black, Gas-burner for the manufacture of	P. Neff	160,789	Mar. 16, 1875	518	167	7	437
Lamp-black, Manufacture of	L. S. Fales and P. Neff	160,759	Mar. 16, 1875	486	.....	7	433
Lamp-black, Manufacture of	P. Neff	160,786	Mar. 16, 1875	515		7	437
Lamp-black, Manufacture of	P. Neff	160,788	Mar. 16, 1875	516	167	7	437

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Lamp-bowls, &c., to pedestals, Attaching	S. S. Barrie	167,053	Aug. 24, 1875	851	265	8	345
Lamp-bracket	D. Barcellas	163,705	Oct. 11, 1875	376	123	8	626
Lamp, Bracket	C. V. Best	159,747	Feb. 16, 1875	495	166	7	266
Lamp-bracket	H. G. Hubon	162,171	Apr. 20, 1875	539	177	7	660
Lamp-cap and shade-holder	W. R. Park	159,208	Jan. 26, 1875	836	274	7	161
Lamp, Car	M. Hicks and T. Smith	160,097	Feb. 23, 1875	833	274	7	318
Lamp, Car	J. B. Hoyt	159,324	Feb. 2, 1875	80	27	7	195
Lamp, Car	J. Kirby, jr.	158,500	Jan. 5, 1875	134	44, 45	7	27
Lamp, Car	F. Rhind	165,755	July 20, 1875	611	188	8	117
Lamp, Carriage	F. C. Cannon	162,898	May 4, 1875	147	47	7	706
Lamp-chimney	W. H. Barnard	165,912	July 27, 1875	780	239	8	153
Lamp-chimney	G. M. Bull	168,871	Oct. 19, 1875	535	175	8	656
Lamp-chimney	G. Niedermair	165,116	June 29, 1875	1215	391	7	1128
Lamp-chimney	R. Norris	165,361	July 6, 1875	199	60	8	36
Lamp-chimney	O. D. Warfield	163,826	May 25, 1875	1040	330	7	914
Lamp-chimney	E. D. Wright and C. H. Kenney	159,011	Jan. 19, 1875	634	210	7	126
Lamp-chimney attachment	H. Johnson	161,339	Mar. 30, 1875	1039	338	7	523
Lamp-chimney, Mica	W. E. Johnson	163,206	May 11, 1875	454	147	7	814
Lamp-chimneys, Box for packing	N. Harris	162,285	Apr. 20, 1875	642	210	7	674
Lamp-chimneys, Machine for flaring and crimping	P. Zimmerman	170,616	Nov. 30, 1875	1283	405	8	936
Lamp-chimneys, Mold for pressing glass	T. B. Atterbury	168,863	Oct. 19, 1875	528	173	8	655
Lamp-chimneys, Tool for finishing	J. Lowry	170,283	Nov. 23, 1875	957	300	8	883
Lamp-chimneys, &c., Tool for flaring and crimping	T. B. Atterbury	170,431	Nov. 30, 1875	1168	349	8	913
Lamp-collar	F. J. Seymour	161,065	Mar. 23, 1875	759	250	7	479
Lamp collar and filler, Non-explosive	J. A. S. Hanford	162,646	Apr. 23, 1875	993	319	7	725
Lamp, Cooking	G. P. Houston	163,202	May 11, 1875	452	146	9	813
Lamp, Divers	C. Marschalk	168,038	Sept. 21, 1875	609	196	8	509
Lamp-extinguisher	W. C. Cross	170,064	Nov. 16, 1875	735	233	8	846
Lamp-extinguisher	F. Hartman	170,556	Nov. 30, 1875	1224	385	8	929
Lamp-extinguisher	J. O. Loderstrom	161,334	June 8, 1875	467	155	7	1004
Lamp-extinguisher	A. Umholtz	159,621	Feb. 9, 1875	358	119	7	242
Lamp-extinguisher	H. J. Warren	163,556	May 18, 1875	795	252	7	874
Lamp-extinguisher	H. J. Warren and H. F. Packard	169,604	Nov. 2, 1875	364	85	8	770
Lamp-extinguisher	M. Waterbury	162,593	Apr. 27, 1875	949	305	7	720
Lamp-extinguisher	A. and E. Waterman	163,343	May 18, 1875	602	192	7	849
Lamp-extinguisher	J. W. Waterman	160,067	Feb. 23, 1875	810	266	7	315
Lamp-extinguisher	W. T. Wood	160,499	Mar. 2, 1875	222	76	7	361
Lamp-extinguisher	W. H. Zimmerman	160,988	Mar. 16, 1875	685	225	7	461
Lamp-extinguisher, Automatic	J. G. Hehr	169,263	Oct. 26, 1875	917	297	8	177
Lamp-filler	W. C. Cross	171,269	Dec. 21, 1875	613	200	8	1017
Lamp-filling can top	O. N. Perkins	171,165	Dec. 14, 1875	486	160	8	1022
Lamp for lighting and heating	E. A. Rippingille	160,352	Mar. 2, 1875	85	31	7	361
Lamp-fount	E. Brown	164,965	June 29, 1875	1083	349	7	1110
Lamp-fount	C. F. Linsley	167,345	Aug. 21, 1875	1136	357	8	392
Lamp, Gas-fitter's	J. D. Galloway	165,089	June 29, 1875	1189	33	7	1125
Lamp-globe holder	R. B. Perkins	159,608	Feb. 9, 1875	349	116	7	241
Lamp-holder	J. C. Love	159,942	Feb. 16, 1875	675	224	7	290
Lamp-holder	J. D. Pierce	160,465	Mar. 2, 1875	186	61	7	375
Lamp, Hydro-electric	W. H. Zimmerman	160,739	Mar. 9, 1875	445	148	7	421
Lamp-lighting apparatus	H. Iden	169,173	Oct. 26, 1875	837	272	8	706
Lamp-lighting apparatus, Electrical	J. A. Voisin and P. Dronier	169,387	Nov. 2, 1875	63	19	8	743
Lamp-lighting apparatus, Street	M. Faloon and D. H. Iseminger	171,555	Dec. 28, 1875	886	290	8	1092
Lamp, Miner's	W. Eynon and R. C. Cook	167,323	Aug. 31, 1875	1116	351	8	389
Lamp, Miner's	J. Sawyer	163,414	May 18, 1875	662	211	7	857
Lamp, Nursery	C. I. Gorham	166,767	Aug. 17, 1875	570	175	8	297
Lamp, Nursery	C. I. Gorham and E. J. Cubley	165,444	July 13, 1875	315	93	8	58
Lamp-pendant	F. R. Seidensticker	158,531	Jan. 5, 1875	158	54	7	31
Lamp-pendant	E. Stevens	160,968	Mar. 16, 1875	668	218	7	458
Lamp-pendant	W. M. Underhill	170,607	Nov. 30, 1875	1276	402	8	935
Lamp, Pocket	J. Kendall	168,903	Oct. 19, 1875	564	184	8	660
Lamp, Reflector	J. Retterer	162,689	Apr. 27, 1875	1041	332	7	731
Lamp-shade	S. R. Kneeland	164,380	June 15, 1875	526	173	7	1021
Lamp-shade support	S. A. Prescott	159,965	Feb. 16, 1875	695	231	7	292
Lamp-socket	W. N. Weeden	167,371	Aug. 31, 1875	1161	366	8	396
Lamp-stand	E. Bacon	161,088	Mar. 23, 1875	783	257, 258	7	482
Lamp, Stove	E. H. Huch	166,106	July 27, 1875	967	298	8	178
Lamp, Street	C. B. Boyle	158,396	Jan. 5, 1875	40	14	7	14
Lamp, Street	J. S. Hagerty	168,987	Oct. 19, 1875	641	212	8	671
Lamp, Street	J. Henrick	164,681	June 22, 1875	802	263	7	1067
Lamp, Street	H. Wellington	162,728	Apr. 27, 1875	1087	345	7	736
Lamp support, Wagon	T. Boudren and G. H. Johnson	167,736	Sept. 14, 1875	325	104	8	459
Lamp-supporter	L. M. Kent	159,683	Feb. 9, 1875	419	139	7	250
Lamp, Traveler's	T. R. Almond	158,615	Jan. 12, 1875	250	84	7	59
Lamp-trimmer	H. L. De Zeng	169,091	Oct. 26, 1875	765	248	8	695
Lamp-trimmer	H. L. De Zeng	169,785	Nov. 9, 1875	471	149	8	804
Lamp-wick	A. M. Daniels	170,995	Dec. 14, 1875	326	108	8	1001
Lamp-wick	H. Halvorson	161,029	Mar. 23, 1875	729	240	7	475
Lamp-wick	H. Halvorson	161,118	Mar. 23, 1875	816	267	7	486
Lamp-wick inserter	W. H. Fitz Patrick	159,171	Jan. 26, 1875	801	262	7	156
Lamp-wick raiser	A. Albertson	170,428	Nov. 23, 1875	1089	343	8	902
Lamps and chandeliers, Extension-fixture for	G. R. Lyon	165,846	July 20, 1875	708	216	8	130
Lamps, Apparatus for supplying oil to	R. V. de Guinon	160,653	Mar. 9, 1875	366	124	7	410
Lamps, Formation of gas	J. J. Hoyt	164,374	June 15, 1875	520	171	7	1021
Lamps, Gas-extinguisher for street	L. Boore	164,711	June 22, 1875	834	271	7	1071
Lamps, Manufacture of	T. B. Atterbury	170,219	Nov. 23, 1875	901	281	8	875
Lamps, Removable drip-cup for argand	A. Bechet	167,869	Sept. 21, 1875	465	147	8	488
Lamps, Safety-extinguisher for	G. F. Edholm	163,466	May 18, 1875	706	225	7	863
Land, Leveling	T. R. Lowe	171,522	Dec. 28, 1875	859	281	8	1088
Land-roller	E. H. Adams	167,380	Sept. 7, 1875	1	1	8	407
Land-roller	P. Bilyen, sr.	160,147	Feb. 23, 1875	874	289	7	325
Land-roller	J. A. Keeler	165,839	July 20, 1875	703	214	8	129
Land-roller	W. Williams	159,784	Feb. 16, 1875	529	176	7	270
Land-roller	J. Woolridge	158,560	Jan. 5, 1875	181	63	7	54
Land roller and harrow, Combined	H. J. Yeargin	163,562	May 18, 1875	800	253	7	874
Land roller and marker	J. M. and G. R. Hunter	171,569	Dec. 28, 1875	901	295	8	1095

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Land-roller and seeding-machine, Combined.....	J. H. Holland	158,712	Jan. 12, 1875	335	114	7	71
Land-side-blank bar	J. Sandage	170,020	Nov. 16, 1875	692	218	8	840
Landau	C. Thomas	160,039	Feb. 23, 1875	783	258	7	311
Lantern	C. S. S. and A. L. Baron	163,136	May 11, 1875	387	125	7	805
Lantern	H. Beebe	169,511	Nov. 2, 1875	169	56	8	758
Lantern	H. Beebe	170,510	Nov. 30, 1875	1183	373	8	923
Lantern	G. A. Beidler	164,253	June 8, 1875	391	132	7	995
Lantern	L. F. Betts	160,744	Mar. 16, 1875	468	153	7	431
Lantern	F. J. Clark and J. Kintz	168,616	Oct. 11, 1875	298	96	8	614
Lantern	A. M. Duburn	167,651	Sept. 14, 1875	253	79	8	449
Lantern	C. H. Lyman	169,457	Nov. 2, 1875	121	39	8	752
Lantern	J. J. Marcy	167,108	Aug. 24, 1875	907	283	8	353
Lantern	S. H. Miller	162,090	Apr. 13, 1875	443	148	7	641
Lantern	R. Nutting	169,916	Nov. 16, 1875	606	188	8	828
Lantern	T. B. Osborne	167,269	Aug. 31, 1875	1070	334	8	283
Lantern	E. S. Ritchie	170,451	Nov. 30, 1875	1125	354	8	915
Lantern	C. J. Sykes	166,484	Aug. 10, 1875	302	91	8	249
Lantern and dinner-kettle, Combined.....	W. W. Price	170,110	Nov. 16, 1875	778	246	8	852
Lantern for trapping insects	B. F. McQueen	166,134	July 27, 1875	985	304	8	180
Lantern-handle	T. James	162,559	Apr. 27, 1875	921	295	7	716
Lantern, Light-house	O. Cook	162,802	May 4, 1875	62	20	7	755
Lantern, Magic	A. G. Buzby	162,896	May 4, 1875	145	47	7	766
Lantern, Magic	A. G. Buzby	162,897	May 4, 1875	146	47	7	766
Lantern, Magic	C. Fontayne	167,090	Aug. 24, 1875	891	278	8	350
Lantern, Magic	L. J. Marcy	162,759	May 4, 1875	20	7, 8	7	749
Lantern, Magic	L. J. Marcy	165,242	July 6, 1875	92	27, 28	8	21
Lantern, Pocket	J. Stevens	167,479	Sept. 7, 1875	86	27	8	418
Lantern, Ship's	F. J. Kenny	159,933	Feb. 16, 1875	667	221	7	289
Lantern, Signal	G. J. Cave	166,966	Aug. 24, 1875	772	238	8	334
Lantern, Signal	E. H. Foote and E. L. Gilman	161,021	Mar. 23, 1875	722	238	7	474
Lantern, Signal	G. F. Pashley	171,417	Dec. 21, 1875	743	244	8	1064
Lantern, Signal	G. Walton and W. E. Merrill	164,351	June 8, 1875	487	161	7	1007
Lanterns, Lime-light apparatus for magic	L. J. Marcy	163,087	May 11, 1875	342	{ 111 112 }	7	799
Lanterns, Reservoir ^{ed} or street	A. H. Watkins	165,042	June 29, 1875	1148	370	7	1119
Lap-board	O. M. Merrick	164,388	June 15, 1875	533	175	7	1022
Lap-board	W. F. Mitchell	160,455	Mar. 2, 1875	179	62	7	374
Lap-board	H. G. Stepp	166,038	July 27, 1875	899	227	8	168
Lap-robe	F. L. Blakely	168,315	Oct. 5, 1875	2	1	8	565
Lap-table, Milliner's, &c.	J. Duncan	159,910	Feb. 16, 1875	647	214	7	286
Lard and cheese press	A. J. Noe	162,407	Apr. 20, 1875	763	247	7	688
Lard-cooler	J. G. C. Lee	169,180	Oct. 26, 1875	840	274	8	707
Lard-cooler	F. C. Pray	161,703	Apr. 6, 1875	96	34	7	583
Lard-cooler	F. E. Rockstroh	165,617	July 13, 1875	474	{ 144 145 }	8	82
Lard drier and cooler	G. Bogen, jr	167,636	Sept. 14, 1875	241	75	8	447
Lard in casks for transportation, Fining and cooling..	R. Bullymore	170,935	Dec. 14, 1875	265	88	8	993
Lard-tank skimmer	N. Caldwell	168,610	Oct. 11, 1875	292	95	8	613
Last, Boot and shoe	C. F. Hill	165,330	July 6, 1875	170	52	8	52
Last for rubber-working	I. F. Williams	166,443	Aug. 3, 1875	245	75	8	234
Lasts, Block-lock for shoe	F. J. Davis	162,038	Apr. 13, 1875	396	134	7	635
Lasts, Machine for putting counters to	L. Coté	167,306	Aug. 31, 1875	1101	346	8	388
Laster, Foot-power	F. J. Davis	164,722	June 22, 1875	844	274	7	1072
Lasting boots and shoes	G. W. Copeland	158,682	Jan. 12, 1875	309	105	7	67
Lasting machine, Boot and shoe	R. C. Lambart	167,676	Sept. 14, 1875	273	85, 86	8	452
Latch and lock, Combined knob	J. F. Cooper	168,377	Oct. 5, 1875	52	19	8	572
Latch, Door	J. A. Colby	162,272	Apr. 20, 1875	632	206	7	672
Latch, Door	J. H. Crane	162,275	Apr. 20, 1875	635	207	7	672
Latch, Door, &c.	F. D. Robinson	161,705	Apr. 6, 1875	97	34	7	583
Latch, Door	O. F. Russ	159,281	Feb. 2, 1875	34	13	7	189
Latch, Door	O. W. Stow	164,780	June 22, 1875	892	290	7	1079
Latch for cupboards, &c., Reversible	C. F. Herrick	166,368	Aug. 3, 1875	164	50	8	223
Latch for gates, &c.	W. D. Skidmore	162,702	Apr. 27, 1875	1056	337	7	733
Latch, Gate	R. C. Bernard	160,639	Mar. 9, 1875	353	119	7	468
Latch, Gate	S. Cherry	169,418	Nov. 2, 1875	90	28	8	747
Latch, Gate	J. L. Giessler	163,179	May 11, 1875	429	139	7	810
Latch, Gate	J. Peterman	168,525	Oct. 5, 1875	187	61	8	591
Latch, Locking	G. J. Dickson	166,856	Aug. 17, 1875	650	202	8	368
Latch, Locking	J. Drucklieb	170,353	Nov. 23, 1875	1020	319	8	892
Latch, Locking	P. S. Felter	167,088	Aug. 24, 1875	888	277	8	350
Latch, Locking	C. Seymour	162,423	Apr. 20, 1875	778	252	7	690
Latch, Locking	E. Skinner	158,811	Jan. 19, 1875	444	148	7	101
Latch, Locking	A. Worster	166,834	Aug. 17, 1875	628	195	8	306
Latch, Locking knob	S. H. Gilman	159,257	Feb. 2, 1875	13	5	7	166
Latch, Reversible	W. M. Griscom	168,986	Oct. 19, 1875	640	212	8	671
Latch, Reversible	E. C. Hussey	164,089	June 8, 1875	243	81	7	975
Latch, Reversible	P. Mathes	168,036	Sept. 21, 1875	607	195	8	509
Latch, Reversible	J. Moore	166,129	July 27, 1875	989	{ 305 306 }	8	181
Latch, Reversible	W. T. Munger	161,700	Apr. 6, 1875	94	33	7	582
Latch, Reversible	H. S. Pomeroy	170,393	Nov. 23, 1875	1058	333	8	897
Latch, Reversible	A. F. Whiting	166,434	Aug. 3, 1875	238	72	8	233
Lath-bolting machine	J. C. Mackey	159,591	Feb. 9, 1875	336	{ 111 112 }	7	239
Lath-machine	J. C. Mackey	168,759	Oct. 11, 1875	425	139	8	633
Lath-sawing machine	C. W. Hart	160,903	Mar. 16, 1875	609	199	7	450
Lath-sawing machine	M. S. Norton	160,838	Mar. 16, 1875	557	181	7	442
Lathe and belt-saw, Combined	H. A. Kimball	169,998	Nov. 16, 1875	671	211	8	837
Lathe-beds to different heights, Mechanism for adjust- ing	W. H. Hoffman	164,560	June 15, 1875	684	222	7	1042
Lathe-center-grinding machine	M. R. Lemman	160,921	Mar. 16, 1875	626	204	7	452
Lathe cutter holder, Metal	J. R. Mitchell	163,878	June 1, 1875	37	12	7	935
Lathe d'g	C. B. Davis	163,640	May 25, 1875	887	280	7	894
Lathe, Engine	W. Tucker	170,605	Nov. 30, 1875	1273	401	8	935
Lathe for turning irregular forms	J. Beaudry	160,638	Mar. 9, 1875	352	119	7	408

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Lathe for turning irregular forms	G. N. Westcott	171, 201	Dec. 14, 1875	525	173	8	1027
Lathe for turning spools	W. R. Landfear	170, 861	Dec. 7, 1875	182	62	8	975
Lathe for turning wood, Gage	F. Gontet	162, 229	Apr. 20, 1875	593	194	7	667
Lathe, Jeweler's	N. W. Holt	159, 180	Jan. 26, 1875	810	265	7	157
Lathe, Metal-turning	H. M. Quackenbush	165, 425	July 13, 1875	293	87	8	56
Lathe, Metal-turning	T. Wilbraham	162, 444	Apr. 20, 1875	798	260	7	692
Lathe, Oval-turning	L. K. Scotford	168, 928	Oct. 19, 1875	591	195	8	664
Lathe, planer, and drilling-machine, Combined	J. McLaren	170, 683	Dec. 7, 1875	27	8	8	954
Lathe-rest	J. E. F. Leland	163, 670	May 25, 1875	900	289	7	897
Lathe, Universal-turning	R. Koch and H. Muller	167, 614	Sept. 14, 1875	221	69	8	444
Lathe, Wood-turning	W. R. Hodge	162, 819	May 4, 1875	76	24, 25	7	757
Lathes, Centering device for wood-turning	W. B. Carpenter	161, 384	Mar. 30, 1875	1086	352	7	529
Lathes, Planing attachment for metal-turning	A. Hoffman	163, 657	May 25, 1875	900	285	7	895
Lathes, Shell-cutter for metal-turning	A. Hoyle	166, 462	Aug. 10, 1875	283	85	8	247
Lathes, Slide-rest for metal-turning	G. F. Ballou	167, 974	Sept. 21, 1875	544	175	8	500
Lathes, Tool-holding attachment for metal	W. Krutzsch	166, 787	Aug. 17, 1875	587	181	8	299
Lathing-machine	C. B. Trimble	170, 031	Nov. 26, 1875	700	220	8	841
Lathing, Metallic	J. W. Hoyt	162, 822	May 4, 1875	78	26	7	759
Lathing, Metallic	J. W. Hoyt	163, 315	May 18, 1875	574	184	7	846
Lathing, Securing metallic	J. W. Hoyt	164, 919	June 29, 1875	1045	337	7	1105
Laundry-polish	C. L. Holland	163, 859	June 1, 1875	30		7	934
Laundry-register	E. G. Dike	163, 302	May 18, 1875	563	180	7	844
Lawn-roller	D. Copeland, jr.	166, 915	Aug. 24, 1875	721	224	8	327
Lead-corroding houses, Bed-pipe for	P. H. Decker	158, 405	Jan. 5, 1875	47	17	7	15
Lead-corroding houses, Ventilating-pipe for	J. D. Richeson	163, 529	May 18, 1875	773	245	7	871
Lead-pipe joint	A. B. Goodall	163, 588	May 25, 1875	840	265	7	838
Lead-traps, Machine for cutting out web-gates of cast	J. A. Lowe	161, 248	Mar. 23, 1875	938	305	7	502
Lead-traps, Manufacture of	F. N. Du Bois	167, 076	Aug. 24, 1875	873	272	8	348
Leaf-pressing clamp	C. W. Holbrook	166, 608	Aug. 10, 1875	406	125	8	265
Leather-beating machine	J. H. Hussey	168, 256	Sept. 28, 1875	838	567	8	548
Leather-boards, &c., Machine for stripping	E. Andrews	166, 837	Aug. 17, 1875	619	196	8	306
Leather-coating composition	H. Martyn	167, 183	Aug. 31, 1875	999		8	373
Leather-coating compound	J. Carmody	161, 203	Mar. 23, 1875	887		7	496
Leather-dressing	J. Miller	165, 680	July 20, 1875	546		8	108
Leather-dressing machine	B. M. J. Blank	170, 983	Dec. 14, 1875	316	105	8	1000
Leather-dressing machine	J. K. Tullis	158, 761	Jan. 12, 1875	373	127	7	76
Leather-dressing machinery	N. O. Lounsberry	161, 046	Mar. 23, 1875	744	245	7	477
Leather-finishing machine	J. P. Friend	163, 063	May 11, 1875	325	105	7	797
Leather-finishing machinery	A. M. L. Groff and J. A. Marvel	159, 092	Jan. 26, 1875	731	241	7	147
Leather-finishing machinery	E. Settle	167, 698	Sept. 14, 1875	292	92	8	454
Leather-finishing process	J. H. Radey	160, 841	Mar. 6, 1875	559		7	443
Leather graining, pebbling, and softening machinery	H. Howson	168, 497	Oct. 5, 1875	159	52	8	587
Leather, Manufacture of	H. and C. Klemm	160, 440	Mar. 2, 1875	163		7	372
Leather, Manufacture of	C. J. Tinnerholm	158, 608	Jan. 12, 1875	242		7	58
Leather, Manufacture of artificial	J. Harrington	168, 485	Oct. 5, 1875	148		8	586
Leather pebbling, graining, and embossing machine	A. W. Perrin	161, 269	Mar. 23, 1875	959	312	7	504
Leather, Prepared	O. Nichols	170, 962	Dec. 14, 1875	290	98	8	997
Leather, Process for manufacturing	G. Herrick	165, 731	July 20, 1875	591		8	114
Leather-punching machine	H. Mott	163, 096	May 11, 1875	352	115	7	801
Leather-rolling machine	N. Linsley, J. McCulloch, and W. Clement	171, 574	Dec. 28, 1875	905	296	8	1095
Leather-rounding machine	J. Lewis	168, 403	Oct. 5, 1875	75	26	8	575
Leather-rounding machine	H. F. Osborne	162, 762	May 4, 1875	24	8	7	750
Leather-seam-pressing machine	J. W. Hatch	160, 770	Mar. 16, 1875	498	162	7	434
Leather-strap creasing and finishing machine	S. B. Randall	160, 231	Feb. 23, 1875	947	311	7	335
Leather-strap-skiving machine	A. G. Howard	159, 822	Feb. 16, 1875	564	187	7	275
Leather-tapering machine	J. and G. W. Settle	158, 989	Jan. 19, 1875	616	204	7	123
Leather to make it water-repellent, Treating	E. F. Dieterichs	170, 940	Dec. 14, 1875	272		8	994
Leather, Treatment of	H. Smith	165, 129	June 29, 1875	1224		7	1129
Leather washer	C. T. Grilley	164, 444	June 15, 1875	587	191	7	1029
Leather washer	C. T. Grilley	164, 446	June 15, 1875	590	192	7	1029
Leather washers, Mechanism for forming	C. T. Grilley	164, 445	June 15, 1875	588	191	7	1029
Leather-washing machine	W. Shaw	164, 106	June 8, 1875	259	89	7	997
Leather-water-proofing compound	J. Clunan	166, 748	Aug. 17, 1875	554		8	294
Leather work, Machine for forming and driving staples for	A. B. Keith and T. R. Reed	164, 010	June 1, 1875	141	50, 51	7	950
Ledger-rest	F. O. Buck	168, 715	Oct. 11, 1875	385	126	8	627
Leg, Artificial	C. Collins and J. H. McCalla	168, 140	Sept. 28, 1875	738	233	8	533
Leg, Artificial	J. O'Brien	167, 779	Sept. 14, 1875	370	118	8	466
Leg-fracture box	D. Bissell	158, 894	Jan. 19, 1875	520	174	7	111
Lemon-press	H. Newberger	160, 697	Mar. 9, 1875	406	136	7	416
Lemon-squeezer	C. H. Miller	171, 154	Dec. 14, 1875	476	156	8	1021
Lemon-squeezer	A. C. Weeks	165, 638	July 13, 1875	497	152	8	85
Letter and picture block	D. Bermeli	163, 912	June 1, 1875	62	21	7	939
Letter-block apparatus	B. Irrgang	166, 382	Aug. 3, 1875	185	55	8	225
Letter-box	J. J. De Barry and T. J. and A. T. Lundqvist	167, 312	Aug. 31, 1875	1106	348	8	388
Letter-box	T. J. and A. T. Lundqvist	166, 074	July 27, 1875	933	288	8	173
Letter-box	E. S. Newcomer	166, 800	Aug. 17, 1875	600	185	8	301
Letter-box	A. Rosenstjerna	164, 041	June 1, 1875	175	62, 63	7	955
Letter-box	D. J. Wilcoxson	170, 141	Nov. 16, 1875	809	255	8	856
Letter-box alarm	J. Harrison	161, 411	Mar. 30, 1875	1109	359	7	532
Letter-box and door-bell, Combined	J. Lovenguth	169, 558	Nov. 2, 1875	217	72	8	764
Letter-box and milk receptacle, Combined	C. E. Miller	166, 623	Aug. 10, 1875	419	129	8	266
Letter-boxes, Electrical indicator for	H. R. David	159, 083	Jan. 26, 1875	724	339	7	146
Letter sheet and envelope, Combined	R. W. Barnes	171, 497	Dec. 28, 1875	837	274	8	1085
Letter-sheets, Book of	H. S. Jackson	158, 416	Jan. 5, 1875	57	20	7	17
Level	C. E. Schwaner	159, 359	Feb. 2, 1875	108	37	7	199
Level	A. B. Wroth	163, 561	May 18, 1875	799	253	7	874
Level and slope indicator	O. S. Willey	159, 370	Feb. 2, 1875	115	40	7	260
Level, Plumb	H. S. Tarr	169, 927	Nov. 16, 1875	616	191	8	830

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Level, plumb, &c., Combined	J. R. Frailey	162,641	Apr. 27, 1875	986	317	7	725
Level, Spirit	E. L. Barnes	159,882	Feb. 16, 1875	620	205	7	282
Levels and straight-edges, Connecting spirit	J. G. Ralph	169,290	Oct. 26, 1875	943	306	8	730
Lever and toggle presses, Platen for	J. F. Taylor	161,121	Apr. 13, 1875	477	157	7	645
Lever-power	H. C. Bell	168,601	Oct. 11, 1875	285	92	8	612
Lever-power	W. F. Hale	168,153	Sept. 28, 1875	749	236	8	535
Lever-press	A. Cameron	168,449	Oct. 5, 1875	113	39	8	581
Lever-press	W. O. Watson	160,131	Feb. 23, 1875	860	284	7	323
Lever safety-pinion	G. Bement	165,783	July 20, 1875	638	196	8	121
Lid lifter	T. B. Carpenter	167,219	Aug. 31, 1875	1030	320	8	377
Life-boat	L. F. Frazee	167,160	Aug. 31, 1875	981	304	8	370
Life-preserver	H. G. Dayton	169,781	Nov. 9, 1875	461	147	8	803
Life-preserver	B. Hempstead	171,018	Dec. 14, 1875	343	114	8	1003
Life-preserver	J. F. Peck	165,610	July 13, 1875	466	142	8	81
Life-preserver	A. Traub	163,422	May 18, 1875	667	213	7	838
Life-preserving apparatus	H. A. Due, jr.	164,818	June 22, 1875	931	301	7	1083
Life-preserving bed	A. G. Haskell	163,011	May 11, 1875	274	88	7	791
Life-preserving jacket	T. Richards	166,477	Aug. 10, 1875	297	89	8	248
Life-preserving stool	H. E. Crosswell	161,670	Apr. 6, 1875	72	66	7	579
Life-preserving stool	H. H. Nash	168,519	Oct. 5, 1875	181	59	8	590
Lifter:							
See Car-lifter.	Plate-lifter.						
Corpse-lifter.	Stove-cover lifter.						
Grain and straw lifter.	Stove-lid lifter.						
Hog-lifter.	Table-lid lifter.						
Jar-lifter.	Track-lifter.						
Lid-lifter.							
Lifting-gate	W. Lundy	164,849	June 22, 1875	958	319	7	1087
Lifting-jack	J. J. Adgate	160,860	Mar. 16, 1875	575	187	7	445
Lifting-jack	E. E. Banning	158,353	Jan. 5, 1875	3	1	7	9
Lifting-jack	J. Beers	158,618	Jan. 12, 1875	252	85	7	59
Lifting-jack	J. C. Bird	163,969	June 1, 1875	107	36	7	946
Lifting-jack	H. Brooksmith	161,925	Apr. 13, 1875	309	103	7	624
Lifting-jack	D. Cilley	165,713	July 20, 1875	576	176	8	112
Lifting-jack	A. Duncan	171,107	Dec. 14, 1875	426	141	8	1015
Lifting-jack	G. W. Edwards	168,005	Sept. 21, 1875	572	184	8	504
Lifting-jack	J. B. Fayett and L. Meeker	163,647	May 25, 1875	893	282	7	895
Lifting-jack	J. B. Fayett and L. Meeker	165,485	July 13, 1875	355	104	8	64
Lifting-jack	H. D. Haraden	171,126	Dec. 14, 1875	449	147	8	1018
Lifting-jack	W. Livingstone	163,791	May 25, 1875	1011	320	7	910
Lifting-jack	W. F. Morrow	159,202	Jan. 26, 1875	830	273	7	160
Lifting-jack	S. E. Mosher	168,603	Oct. 11, 1875	343	111	8	621
Lifting-jack	L. O'Hara	164,323	June 8, 1875	458	151	7	1003
Lifting-jack	J. L. Vail	168,811	Oct. 11, 1875	409	153	8	638
Lifts or hoists. Safety apparatus for	H. A. Davis	162,535	Apr. 27, 1875	901	288	7	713
Light:							
See Drop-light.	Locomotive head-light.						
Electric light.	Sky-light.						
Gas light.	Vault-light.						
Head-light.							
Light and heat, Apparatus for collecting the rays of	P. Balestrieri	162,263	Apr. 20, 1875	625	204	7	671
Lighter, Portable	J. A. Watson	164,620	June 15, 1875	735	240	7	1049
Lighting and heating houses, Apparatus for	F. C. Hooton	164,371	June 15, 1875	518	170	7	1020
Lightning-rod	J. C. Bryan	160,151	Feb. 23, 1875	878	290	7	325
Lightning-rod	J. C. Bryan	160,154	Feb. 23, 1875	880	290	7	326
Lightning-rod	I. Johnson	170,377	Nov. 28, 1875	1041	327	8	895
Lightning-rod	J. A. Kleckner	162,828	May 4, 1875	83	28	7	758
Lightning-rod	M. D. Phelps	159,961	Feb. 16, 1875	691	230	7	292
Lightning-rod	H. W. Spang	167,415	Sept. 7, 1875	33	10	8	411
Lightning-rod	S. R. Wilmot	159,007	Jan. 19, 1875	631	209	7	125
Lightning-rod-making machine	W. B. Munn	161,541	Mar. 30, 1875	1235	397	7	548
Lightning-rod standard	W. S. Reyburn and F. J. Martin	163,807	May 25, 1875	1026	325	7	913
Limb-receiver	H. R. Allen	170,217	Nov. 23, 1875	900	281	8	875
Lime-bin	D. G. Ormsby	162,624	Apr. 27, 1875	1047	331	7	731
Lime in water containing carbonic acid, Dissolving tribasic phosphate of	A. Jas	164,457	June 15, 1875	599		7	1030
Limekiln	H. Brockman and H. Stueve	171,468	Dec. 28, 1875	803	265	8	1081
Limekiln	F. Cole and D. D. L. McCulloch	160,878	Mar. 16, 1875	589	192	7	447
Limekiln	A. B. Weeks	165,900	July 20, 1875	756	231	8	137
Line-fastener	A. B. Brown and P. A. Peer	165,705	July 20, 1875	568	173	8	111
Line-fastener	W. Haddock	167,610	Sept. 14, 1875	218	68	8	444
Link	W. A. Ingalls	167,453	Sept. 7, 1875	65	20	8	415
Link-forming machine	J. H. Helm	164,682	June 22, 1875	803	263	7	1067
Link, S. added	C. A. Chamberlin	168,081	Sept. 28, 1875	677	214	8	525
Lint-room floor	J. N. Stitt	165,889	July 20, 1875	747	228	8	135
Liquid and gas meter and motor	J. A. Stenberg	158,995	Jan. 19, 1875	621	206	7	124
Liquid-cooler	B. F. Shaw	165,430	July 13, 1875	299	88	8	56
Liquid-meter	E. Marsland	164,852	June 22, 1875	960	311	7	1087
Liquid-meter	H. S. Maxim	161,621	Apr. 6, 1875	28	11	7	573
Liquid-mixer	J. B. Meyers	165,853	July 20, 1875	716	218	8	131
Liquid-packages, Device for filling and discharging	J. M. Hopkins	171,381	Dec. 21, 1875	709	234	8	1060
Liquids, Apparatus for dispensing effervescent	T. Warker	165,391	July 6, 1875	239	72	8	41
Liquids, Apparatus for drawing effervescent	C. Greiner	165,565	July 13, 1875	426	129	8	76
Liquids, Apparatus for drawing effervescent	T. Warker	159,054	Jan. 26, 1875	698	220	7	142
Liquids, Apparatus for drawing effervescent	F. W. Wiesebeck	162,986	May 4, 1875	235	76	7	778
Liquids, Drawing effervescent	P. E. Malmstrom and P. E. Dummer	160,925	Mar. 16, 1875	630	205	7	452
Liquids, Method and apparatus for evaporating	G. A. Hagemann	155,568	July 13, 1875	428	130	8	76
Liquids, Process and apparatus for cooling	L. B. Woolfolk	159,997	Feb. 16, 1875	736	242	7	296
Liquids, Vessel for inflammable	M. Chase and A. W. Cram	162,350	Apr. 20, 1875	703	228	7	681
Liquor tester, filterer, and emptier combined	W. F. Hellen	161,451	June 15, 1875	594	193	7	130
Lithographic presses, Damping attachment for	H. Voirin	170,693	Dec. 7, 1875	37	11	8	853

Alphabetical list of inventions—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Lock:							
See Alarm-lock.	Oar-lock.						
Bag-lock.	Padlock.						
Canal-lock.	Permutation-lock.						
Cigar-box lock.	Piano-tuning-pin lock.						
Combination-lock.	Pocket-book lock.						
Door-lock.	Rowlock.						
Drawer-lock.	Sash-lock.						
Fire-arm lock.	Seal-lock.						
Gun-lock.	Sewing-machine lock.						
Hasp-lock.	Time-lock.						
Indicator-lock.	Till-lock.						
Mortise-lock.	Trunk-lock.						
Nut-lock.	Vehicle-seat lock.						
Nut or collar lock.							
Lock	H. S. Shepardson	166,034	July 27, 1875	896	277	8	168
Lock	W. H. Taylor	165,631	July 13, 1875	489	149	8	84
Lock-key	L. Griswold	167,168	Aug. 31, 1875	988	307	8	371
Lock-key	W. H. Guthrie	171,014	Dec. 14, 1875	341	113	8	1003
Lock-shells to bolt-cases, Fastening	H. Winn	165,644	July 13, 1875	502	{ 153 154 }	8	86
Locks, Adjustable face-plate for	E. M. and J. E. Mix	166,797	Aug. 17, 1875	508	184	8	301
Locomotive	J. V. Meigs	163,228	May 11, 1875	471	153	7	816
Locomotive ash pan and damper	W. W. Beach	162,519	Apr. 27, 1875	887	284	7	712
Locomotive ash-pans, Apparatus for cleaning	P. K. Dealy	168,884	Oct. 19, 1875	544	178	8	658
Locomotive, &c., boilers, Fire-box for	Z. S. Durfee	167,079	Aug. 24, 1875	876	{ 273 274 }	8	349
Locomotive cattle-alarm	E. Smith	166,943	Aug. 24, 1875	748	{ 231 232 }	8	331
Locomotive-engine	T. T. V. Smith	167,276	Aug. 31, 1875	1076	336	8	384
Locomotive for burning hydrocarbon	J. M. Goodwin	164,915	June 29, 1875	1041	335	7	1105
Locomotive-furnace	H. F. Hayden	168,899	Oct. 19, 1875	558	{ 182 183 }	8	660
Locomotive head-light	W. H. and A. E. Briggs	164,516	June 15, 1875	647	209	7	1037
Locomotive running-gear	F. S. W. Nowotry	162,410	Apr. 20, 1875	766	249	7	628
Locomotive smoke-stack	E. Cleary	158,469	Jan. 5, 1875	105	35	7	23
Locomotive smoke-stack	H. V. Faries	163,172	May 11, 1875	423	137	7	810
Locomotive smoke-stack	N. Irving	165,530	July 27, 1875	801	246	8	155
Locomotive smoke-stack	P. Reilly	169,039	Oct. 19, 1875	691	228	8	677
Locomotive tire-heater	T. T. Peak	167,115	Aug. 24, 1875	913	285	8	353
Locomotives, Device for increasing traction of	J. W. Murphy	164,863	June 22, 1875	974	315	7	1089
Locomotives, Device for increasing traction of	L. A. Rites	159,453	Feb. 2, 1875	192	64	7	211
Locomotives, Reversing-gear for	J. Ord	167,468	Sept. 7, 1875	77	24	8	417
Locomotives with water, Apparatus for supplying	H. Howe	167,765	Sept. 14, 1875	360	113	8	464
Log-moving machine	A. Rodgers	161,903	Apr. 13, 1875	288	97	7	621
Log-slide, Roller	C. B. Jackson and C. N. Humphrey	158,497	Jan. 5, 1875	131	44	7	27
Log-turner	H. Knowlton	167,261	Aug. 31, 1875	1064	331	8	392
Log-turner	C. P. McWane	166,021	July 27, 1875	885	273	8	166
Log-turner, Saw-mill	J. Orm	163,398	May 18, 1875	649	207	7	855
Loom	G. Crompton	161,595	Apr. 6, 1875	7	3	7	570
Loom	H. D. Davis and J. M. Stone	160,084	Feb. 23, 1875	823	270	7	317
Loom	J. Dornan	159,653	Feb. 9, 1875	386	{ 127 128 129 }	7	246
Loom	J. M. Linscott	164,924	June 29, 1875	1049	338	7	1106
Loom	J. L. Norton	163,799	May 25, 1875	1017	{ 322 323 }	7	911
Loom, Circular-weaving	D. Avery	164,250	June 8, 1875	387	131	7	994
Loom for weaving blinds	R. B. Murphy	170,885	Dec. 7, 1875	200	69, 70	8	977
Loom for weaving fringe	R. Saatweber	171,582	Dec. 28, 1875	913	299	8	1096
Loom for weaving hair	M. R. Kenyon	164,565	June 15, 1875	689	{ 223 224 }	7	1043
Loom for weaving hair-cloth	J. Paradis	161,437	Mar. 30, 1875	1132	365	7	534
Loom for weaving hair-cloth	J. Turpie	166,732	Aug. 17, 1875	539	{ 165 166 }	8	292
Loom for weaving matting	S. Kuh	167,545	Sept. 7, 1875	146	45	8	426
Loom for weaving pile fabrics	S. Sanford	159,282	Feb. 2, 1875	36	13	7	189
Loom for weaving pile fabrics	S. Sanford	165,428	July 13, 1875	296	88	8	56
Loom for weaving piled fabrics	E. B. Bigelow	167,152	Aug. 31, 1875	971	302	8	369
Loom for weaving piled fabrics	S. Sanford	159,847	Feb. 16, 1875	565	194	7	278
Loom for weaving piled fabrics	W. Webster and J. Wade	170,922	Dec. 7, 1875	234	80	8	982
Loom for weaving suspender-webbing	C. H. Chapman	160,749	Mar. 16, 1875	474	155	7	432
Loom for weaving tubular fabrics	J. E. Gillespie	163,925	June 1, 1875	73	24	7	940
Loom for weaving webbing	H. M. Witter	170,458	Nov. 30, 1875	1131	357	9	916
Loom, Hand	J. E. Gillespie	169,098	Oct. 26, 1875	770	250	8	696
Loom-harness	J. Sladdin	164,777	June 22, 1875	887	289	7	1078
Loom-harness frame	J. E. Casey, H. Auel, and J. Johnson	163,575	May 25, 1875	826	261	7	886
Loom-harness motion	O. W. Kenison	162,238	Apr. 20, 1875	602	197	7	668
Loom heddle-frame	F. S. Pratt	162,191	Apr. 20, 1875	556	183	7	663
Loom let-off mechanism	J. H. Moore	170,011	Nov. 16, 1875	685	215	8	839
Loom let-off mechanism	H. A. Remington	161,901	Apr. 13, 1875	286	96	7	621
Loom let-off mechanism	G. P. Rose, A. Cartwright, and B. S. Rose	161,443	Mar. 30, 1875	1137	367	7	535
Loom let-off mechanism	J. Turner	161,996	Apr. 13, 1875	364	122	7	631
Loom, Needle	J. H. Greenleaf	163,184	May 11, 1875	433	141	7	811
Loom pattern-chain	L. J. Knowles	162,176	Apr. 20, 1875	544	179	7	661
Loom pattern-chain	J. F. Wicks	169,608	Nov. 2, 1875	269	8	8	771
Loom-picker	H. McManus	170,880	Nov. 30, 1875	1249	393	8	931
Loom-picker fastening	L. J. Labounty	171,520	Dec. 28, 1875	857	280	8	1088
Loom picking mechanism	B. F. Bean and C. H. Farnham	158,775	Jan. 19, 1875	409	137	7	97
Loom picking mechanism	D. M. Collins	165,408	July 13, 1875	278	82	8	53
Loom picking mechanism	W. Stearns	158,606	Jan. 12, 1875	241	81	7	58
Loom, Ribbon	P. Schwartz	170,904	Dec. 7, 1875	218	75, 76	8	980

Alphabetical list of inventions—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Loom shedding and pattern mechanism	G. Crompton and H. Wyman...	158,362	Jan. 5, 1875	11	4	7	10
Loom shedding mechanism	G. Crompton	162,904	May 4, 1875	153	50	7	767
Loom shedding mechanism	R. B. Goodyear	163,064	May 11, 1875	325	105	7	77
Loom shedding mechanism	R. B. Goodyear	166,928	Aug. 24, 1875	731	227	8	329
Loom shedding mechanism	O. W. Kenison	169,552	Nov. 2, 1875	212	70	8	763
Loom shedding mechanism	H. Wyman	158,395	Jan. 5, 1875	39	14	7	14
Loom-shuttle	F. Blanding	163,001	Feb. 23, 1875	752	248	7	307
Loom-shuttle	T. Cheetham	164,144	June 8, 1875	289	99	7	981
Loom-shuttle	A. Edwards	167,753	Sept. 14, 1875	346	110	8	462
Loom-shuttle	P. Lear	159,764	Feb. 16, 1875	509	171	7	268
Loom-shuttle	J. H. Le Moyne	161,972	Apr. 13, 1875	345	116	7	628
Loom-shuttle	J. H. Peasley	160,544	Mar. 9, 1875	273	93	7	396
Loom-shuttle	J. M. Peckham	161,702	Apr. 6, 1875	95	33	7	583
Loom-shuttle	R. W. Porter	161,515	Mar. 30, 1875	1239	398	7	549
Loom-shuttle	R. W. Porter	169,837	Nov. 9, 1875	521	163	8	809
Loom-shuttle	J. Rigby	163,609	May 25, 1875	861	271	7	890
Loom-shuttle	A. Pollason and J. Brown	161,061	Mar. 23, 1875	755	249	7	479
Loom-shuttle	M. Safford	160,843	Mar. 16, 1875	560	182	7	443
Loom-shuttle	E. M. Stevens	164,493	June 15, 1875	629	203	7	1034
Loom-shuttle	N. J. Willis	165,777	July 20, 1875	633	194	8	120
Loom-shuttle	D. Wright	169,504	Nov. 2, 1875	161	54	8	757
Loom-shuttle	D. Wright	169,505	Nov. 2, 1875	162	54	8	757
Loom-shuttle and shuttle stop	J. Wolfenden	170,214	Nov. 23, 1875	897	280	8	875
Loom-shuttle binder	T. Blake	166,494	Aug. 10, 1875	310	93	8	250
Loom-shuttle binder	A. Mallory	163,671	May 25, 1875	909	289	7	897
Loom-shuttle binder	J. H. Moore	167,460	Sept. 7, 1875	70	22	8	416
Loom-shuttle-box mechanism	J. G. Chandlee	171,598	Dec. 28, 1875	928	304	8	1098
Loom-shuttle-box mechanism	H. Wyman	158,394	Jan. 5, 1875	37	13	7	14
Loom-shuttle check and binder	S. T. Hurd	169,995	Nov. 16, 1875	669	210	8	837
Loom-shuttle guard	J. L. Dow	160,261	Mar. 2, 1875	6	3	7	350
Loom-shuttle guard	W. M. Parker	171,416	Dec. 21, 1875	742	244	8	1064
Loom-shuttle motion	C. I. Kane	167,176	Aug. 31, 1875	995	309	8	372
Loom-shuttle spindle	T. H. Logan and J. B. Thompson	167,678	Sept. 14, 1875	276	87	8	452
Loom stop-motion	B. F. Arnold	167,381	Sept. 7, 1875	2	1	8	407
Loom stop-motion	S. Greenwood and J. Templeton	162,471	Apr. 27, 1875	845	272	7	707
Loom stop-motion	H. T. Kent and S. Moore	169,108	Oct. 26, 1875	781	253	8	697
Loom stop-motion fork	J. McCaffrey, jr.	170,007	Nov. 16, 1875	681	214	8	839
Loom stopping mechanism	J. Bullough	159,983	Feb. 16, 1875	712	236	7	294
Loom-stopping mechanism	J. Bullough	159,984	Feb. 16, 1875	713	236	7	294
Loom-stopping mechanism	J. Bullough	159,985	Feb. 16, 1875	714	237	7	295
Loom-stopping mechanism	J. Bullough	159,986	Feb. 16, 1875	716	238	7	295
Loom-stopping mechanism	A. S. Wynn	166,737	Aug. 17, 1875	546	167	8	293
Loom swivel-shuttle	J. Fish	169,248	Oct. 26, 1875	900	292	8	715
Loom take-up mechanism	H. Carstaedt	168,228	Sept. 28, 1875	810	257	8	544
Loom take-up motion	J. Lyall	171,396	Dec. 21, 1875	726	238	8	1062
Loom-temple	N. Chapman	162,744	May 4, 1875	9	4	7	748
Loom-temple	A. D. Fuller	159,255	Feb. 2, 1875	12	4	7	186
Loom-temple	E. S. Stimpson	159,050	Jan. 26, 1875	693	229	7	141
Loom-temple	J. C. Thickins	170,785	Dec. 7, 1875	120	38	8	966
Loom-temple	S. S. Walker	169,719	Nov. 9, 1875	432	137	8	799
Loom warp-beam	E. Oldfield	162,188	Apr. 30, 1875	554	182	7	662
Loom warp-beam apron	L. J. Labounty	171,519	Dec. 28, 1875	856	280	8	1088
Loom weft-stop mechanism	O. M. Stillman	169,596	Nov. 2, 1875	257	83	8	769
Loom yarn-beam	L. K. Knowles	159,686	Feb. 9, 1875	421	140	7	251
Looms, Take-up pawl for	S. S. Walker	167,418	Sept. 7, 1875	36	10	8	411
Lounge, Adjustable reclining	E. Bartel	160,073	Feb. 23, 1875	815	267	7	316
Lounge, Camp	G. T. Barker	161,733	Apr. 6, 1875	124	43	7	586
Lounge, Folding	N. H. Borgfeldt	169,138	Oct. 26, 1875	806	262	8	701
Lounge, Folding	O. Stechhan	171,060	Dec. 14, 1875	381	127	8	1008
Lounge, Invalid	A. Shiels	167,700	Sept. 14, 1875	294	93	8	455
Lounges, Attaching bolster-frames to folding	W. Seng	170,406	Nov. 23, 1875	1070	337	8	899
Low-water and high-pressure alarm, Electrical	T. Hass	170,261	Nov. 23, 1875	941	294	8	881
Low-water indicator	J. H. Brown	162,795	May 4, 1875	57	18	7	754
Low-water indicator	C. E. Christian	167,069	Aug. 24, 1875	868	270	8	347
Low-water indicator, Steam-boiler	O. B. Kendall	159,184	Jan. 26, 1875	815	267	7	158
Lubricating-box	J. Whitaker	158,765	Jan. 12, 1875	378	129	7	77
Lubricating can	L. F. Betts	160,745	Mar. 10, 1875	468	153	7	431
Lubricating compound	B. F. Bartlett	167,730	Sept. 14, 1875	322	.....	8	459
Lubricating compound	J. G. Betts	161,468	Mar. 30, 1875	1160	.....	7	539
Lubricating compound	J. G. Betts	161,469	Mar. 30, 1875	1162	.....	7	539
Lubricating compound	H. V. P. Draper	171,508	Dec. 28, 1875	847	.....	8	1086
Lubricating compound	H. V. P. Draper	171,509	Dec. 28, 1875	848	.....	8	1087
Lubricating compound	J. J. Koch	161,521	Mar. 30, 1875	1217	.....	7	546
Lubricating compound	J. F. Mendonsa	170,581	Nov. 30, 1875	1249	.....	8	931
Lubricating compound	J. Williams	164,117	June 8, 1875	269	.....	7	978
Lubricating device	G. A. Sawyer	168,109	Sept. 28, 1875	703	222	8	529
Lubricating-spindle	A. M. Wade	165,433	July 13, 1875	303	89	8	57
Lubricator:							
See Axle-lubricator. Piston-rod lubricator.							
Car-wheel lubricator. Steam-engine lubricator.							
Journal-box lubricator.							
Lubricator	S. H. Davis, jr., and H. M. DuBois	165,800	July 23, 1875	657	202	8	123
Lubricator	A. Gould and W. M. Hayden	168,984	Oct. 19, 1875	639	211	8	671
Lubricator	I. W. Heagland	169,809	Nov. 9, 1875	493	155	8	806
Lubricator	C. E. Holt	163,591	May 25, 1875	844	266	7	888
Lubricator	C. H. Parshall	170,296	Nov. 23, 1875	970	304	8	885
Lubricator	C. H. Parshall	170,297	Nov. 23, 1875	971	304	8	885
Lubricator	J. W. Reed	168,671	Oct. 11, 1875	348	113	8	622
Lubricator	J. Richter and G. Merkel	165,756	July 20, 1875	612	188	8	118
Lubricator	W. P. Stephenson	169,124	Oct. 26, 1875	795	258	8	700
Lumber	W. E. Brock	161,746	Apr. 6, 1875	136	47	7	588
Lumber-carrier	F. L. Pinney and R. H. Hasty	160,029	Feb. 23, 1875	776	256	7	310
Lumber-drier	J. J. Curran	161,490	Mar. 30, 1875	1190	382	7	542

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Lumber-drier.....	M. Harris.....	169,903	Nov. 16, 1875	594	{ 184 185	8	827
Lumber-drier.....	P. Pfeffer.....	163,403	May 18, 1875	654	209	7	856
Lumber-drier.....	H. S. Taylor.....	158,753	Jan. 12, 1875	366	125	7	75
Lumber-matching machine.....	G. J. Shiner.....	163,269	May 11, 1875	512	166	7	821
Lunch-box.....	F. W. Hunt and W. A. Whitehouse.....	170,441	Nov. 30, 1875	1117	352	8	914
Lunch-heater, Portable.....	M. Bradley.....	168,133	Sept. 28, 1875	728	229	8	532
M.							
Macaroons, Preserve composition for.....	H. Heide and C. Wirtz.....	170,368	Nov. 23, 1875	1030	.....	8	894
Machinery-locking device.....	T. D. Marsh and F. M. Crane.....	161,695	Apr. 6, 1875	90	32	7	582
Machinery motor, Light.....	D. Baldwin.....	159,663	Jan. 26, 1875	705	232	7	143
Magnesia, Manufacturing milk of.....	C. H. Phillips.....	159,446	Feb. 2, 1875	185	.....	7	210
Magneto-electric machine.....	L. Drescher.....	168,560	Oct. 11, 1875	242	79, 80	8	606
Magneto-electric machine.....	M. G. Farmer.....	161,874	Apr. 13, 1875	203	88	7	618
Magneto-electric machine.....	J. B. Fuller.....	168,893	Oct. 19, 1875	551	181	8	659
Magneto-electric machine.....	O. Heikel.....	168,018	Sept. 21, 1875	589	188	8	506
Mail-bag.....	J. Boyle and H. Stephens.....	165,205	July 6, 1875	62	18	8	17
Mail-bag.....	G. O. Clark.....	171,469	Dec. 28, 1875	804	265	8	1081
Mail-bag.....	P. S. Thomson.....	171,250	Dec. 21, 1875	594	195	8	1044
Mail-bag catch.....	E. Amrock and C. Judson.....	165,293	July 6, 1875	135	41	8	27
Mail-bag catch.....	H. M. Dick.....	164,677	June 22, 1875	799	262	7	1066
Mail-bag catch.....	E. F. Hotchkiss.....	169,545	Nov. 2, 1875	205	68	8	762
Mail-bag catch.....	B. Uncles.....	164,616	June 15, 1875	732	239	7	1049
Mail-bag catch.....	A. B. Whipple.....	168,860	Oct. 19, 1875	525	172	8	655
Mail-bag catch.....	A. B. Whipple.....	168,681	Oct. 19, 1875	525	172	8	655
Mail-bag fastener.....	R. Lee.....	163,769	May 25, 1875	1008	320	7	910
Mail-bag fastener.....	H. M. Smith.....	170,195	Nov. 23, 1875	831	275	8	873
Mail-bag fastening.....	J. C. Franklin.....	162,812	May 4, 1875	71	23	7	756
Mail-bags, Manufacture of.....	H. Stephens.....	168,425	Oct. 5, 1875	93	32	8	579
Main: See Gas-main. Street-main. Hydraulic main.							
Main-tapping machine.....	J. J. Quinn.....	160,952	Mar. 16, 1875	654	213	7	456
Mainsprings to arbors, Attaching.....	W. C. Maynard.....	160,109	Feb. 23, 1875	842	277	7	320
Maize, Process of treating.....	L. Chiozza.....	167,224	Aug. 31, 1875	1033	.....	8	377
Mallet.....	A. G. Fellows.....	165,221	July 6, 1875	74	22	8	19
Malt drying apparatus.....	G. Clark.....	166,913	Aug. 24, 1875	719	223	8	327
Malt-kiln floor.....	L. Herrmann.....	162,748	May 4, 1875	11	5	7	748
Malt-kiln floor.....	P. Weinig.....	168,948	Oct. 19, 1875	605	201	8	666
Malt-kiln stirring apparatus.....	A. Von Schlemmer.....	170,134	Nov. 16, 1875	799	253	8	856
Mandrel, Expanding.....	P. B. Lawson.....	163,217	May 11, 1875	462	150	7	815
Mandrel for bending metallic tubing.....	M. L. Orum.....	166,294	Aug. 3, 1875	100	31	8	213
Mandrel, Tube-drawing.....	T. Whitehouse.....	166,438	Aug. 3, 1875	240	73	8	233
Manganese, Manufacture of ferro.....	A. Jullien.....	163,782	May 25, 1875	1003	313	7	909
Mangle.....	A. B. Barnard.....	169,762	Nov. 9, 1875	449	142	8	801
Mangle.....	J. Johnson.....	166,108	July 27, 1875	969	298	8	178
Mangle.....	H. Tamms.....	160,851	Mar. 16, 1875	566	184	7	444
Mangle and ironing-table, Combined.....	F. Way.....	162,439	Apr. 20, 1875	794	258	7	692
Mantel for fire-place, Composite.....	D. K. Innes.....	168,025	Sept. 21, 1875	595	190	8	507
Mantel, Iron.....	T. F. Baker.....	165,781	July 20, 1875	636	195	8	121
Mantels, Apparatus for marbleizing.....	R. J. Howdon.....	160,911	Mar. 16, 1875	615	201	7	450
Manure, Apparatus for preparing and distributing liquid.....	E. H. Cummings.....	167,155	Aug. 31, 1875	975	303	8	369
Manure-distributor.....	N. Tomlinson.....	159,476	Feb. 2, 1875	223	73	7	215
Manure, Treating blood for the manufacture of.....	T. Myerson.....	163,099	May 11, 1875	356	.....	7	801
Map-exhibitor.....	S. C. Adams.....	159,158	Jan. 26, 1875	701	230	7	142
Map-exhibitor.....	J. Lichtenberger.....	159,335	Feb. 2, 1875	90	31	7	196
Marble and process of molding the same, Artificial.....	W. Burnet.....	161,005	Mar. 23, 1875	707	.....	7	472
Marble and tile, Machine for grinding.....	N. W. Robinson, F. W. Smith, and H. Campbell.....	162,253	Apr. 20, 1875	615	200	7	670
Marble, Manufacture of artificial.....	J. Cowman and S. B. Barber.....	163,977	June 1, 1875	113	.....	7	947
Marble, Manufacture of artificial.....	W. C. A. Roettger.....	169,294	Oct. 26, 1875	945	.....	8	720
Marbleizing surfaces, Process of.....	S. W. Steele and J. Bayer.....	167,034	Aug. 24, 1875	833	.....	8	343
Mariner's log.....	G. E. Elliott.....	170,720	Dec. 7, 1875	60	18	8	958
Marker, Corn.....	T. B. Kirkwood.....	169,177	Oct. 26, 1875	839	273	8	706
Marker, Corn.....	J. McGregor.....	170,287	Nov. 23, 1875	962	301	8	884
Marker, Corn.....	W. H. Rider.....	166,939	Aug. 24, 1875	743	230	8	330
Marker, Corn.....	W. F. Senter.....	167,275	Aug. 31, 1875	1075	335	8	383
Marker, Corn.....	M. A. Throckmoton.....	164,234	June 8, 1875	372	126	7	992
Marker, Corn-row.....	A. G. Moore.....	163,510	May 18, 1875	754	{ 239 240	7	869
Marker, Corn-row.....	W. M. Starliper.....	162,963	May 4, 1875	214	69	7	775
Marker, Land.....	J. Augspurger.....	168,598	Oct. 11, 1875	281	91	8	611
Marking-board for pin-pools.....	G. H. Decker.....	165,985	July 27, 1875	852	262	8	162
Marking-implement.....	J. O'Kane.....	168,407	Oct. 5, 1875	80	27	8	576
Marking-pot.....	W. H. Rodden.....	167,473	Sept. 7, 1875	80	25	8	418
Marking wheel.....	W. H. Bell.....	166,583	Aug. 10, 1875	381	118	8	261
Marking-wheel.....	F. M. Truworthy.....	166,162	July 27, 1875	1023	315	8	186
Marking-wheel.....	S. E. Worrell.....	168,362	Oct. 5, 1875	39	14	8	570
Mash-attemperator.....	W. Paddon.....	171,310	Dec. 21, 1875	646	212	8	1051
Mashing and cooling, Process and apparatus for.....	G. Ellenberger.....	169,156	Oct. 26, 1875	822	267	8	704
Mashing-machine.....	J. A. Miller.....	162,241	Apr. 20, 1875	610	199	7	669
Mast and sail of vessels.....	J. W. Norcross.....	163,941	June 1, 1875	85	29	7	942
Mast for boats, Hinged.....	C. E. Davenport and W. M. Porter.....	167,438	Sept. 7, 1875	54	16	8	413
Mast-hoops to sails, Attaching.....	C. S. Barnard.....	168,121	Sept. 28, 1875	722	228	8	531
Mat: See Bird-cage mat. Oil-pressing mat. Door-mat. Spittoon-mat. Floor-mat. Table-mat. Foot-mat.							
Mats, Mechanism for weaving.....	D. M. Harman.....	161,681	Apr. 6, 1875	80	28	7	580
Match-box.....	E. S. Burchett.....	163,846	June 1, 1875	9	3	7	932

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Match-box.....	O. H. Hicks.....	165,329	July 6, 1875	170	52	8	32
Match-box.....	J. Knox.....	161,127	Mar. 23, 1875	824	270	7	487
Match-box.....	T. Robertson.....	166,480	Aug. 10, 1875	299	90	8	249
Match, &c., box, Automaton.....	H. Roman.....	169,923	Nov. 16, 1875	612	190	8	829
Match-boxing machine.....	F. Mansfield.....	161,532	Mar. 30, 1875	1226	{ 394 395 }	7	547
Match for lighting fuses, Slow.....	A. S. Wall.....	163,903	June 1, 1875	55	19	7	938
Match-making machine.....	P. Wallace.....	169,867	Nov. 9, 1875	549	{ 171 172 }	8	813
Match-making machine.....	M. Young.....	160,376	Mar. 2, 1875	104	38	7	363
Match-safe.....	E. H. Whitney.....	169,129	Oct. 26, 1875	800	259	8	700
Match-safe.....	H. C. Wilcox.....	165,142	June 29, 1875	1237	398	7	1131
Match, Safety.....	E. Haanel.....	169,539	Nov. 2, 1875	193	.....	8	761
Match-splint-cutting machine.....	W. B. Neilson.....	158,968	Jan. 19, 1875	594	197	7	121
Match-sticks, Machine for cutting.....	J. S. Fagley.....	169,246	Oct. 26, 1875	898	292	8	714
Matching-cutter.....	A. Streit.....	162,114	Apr. 13, 1875	470	155	7	644
Mattress and bedstead, Combined.....	J. J. Bowen.....	171,596	Dec. 28, 1875	926	304	8	1098
Mattress and cushion.....	W. H. Horton.....	169,442	Nov. 2, 1875	110	35	8	750
Mattress frame, Woven-wire.....	W. J. Boda.....	170,333	Nov. 23, 1875	1004	315	8	890
Mattress, Sectional.....	G. Block.....	158,461	Jan. 5, 1875	96	33	7	22
Mattress-stuffing machine.....	J. B. Spurgin and W. J. Freeman.....	160,289	Mar. 2, 1875	29	11	7	353
Mattress, Woven-wire.....	A. Z. Boda.....	170,334	Nov. 23, 1875	1005	315	8	890
Measure, Adjustable graduated.....	T. B. Young and S. A. Davis.....	170,216	Nov. 23, 1875	899	281	8	875
Measure and funnel.....	J. D. Humphrey.....	164,000	June 1, 1875	135	47	7	949
Measure, Dry.....	D. M. Mefford.....	160,609	Mar. 9, 1875	328	111	7	405
Measure, Liquid.....	G. W. Aldrich.....	167,601	Sept. 14, 1875	210	65	8	443
Measure, Liquid.....	J. M. Hopkins.....	171,382	Dec. 21, 1875	710	235	8	1060
Measure, Liquid.....	J. McInnes.....	161,625	Apr. 6, 1875	31	12	7	573
Measure, Liquid.....	C. G. Morgan.....	169,652	Nov. 9, 1875	330	101	8	786
Measure, Liquid.....	E. A. Pontifex.....	162,575	Apr. 27, 1875	933	300	7	718
Measure register, Cloth.....	J. Brown, jr.....	166,964	Aug. 24, 1875	769	237	8	333
Measure, Rotary.....	A. Chambers.....	164,424	June 15, 1875	570	185	7	1027
Measure, Tailor's.....	J. S. Charch.....	166,257	Aug. 3, 1875	66	21	8	208
Measure, Tailor's.....	F. B. Smith.....	164,943	June 29, 1875	1068	344	7	1108
Measure, Tailor's.....	W. D. Tilney.....	165,383	July 6, 1875	227	68	8	39
Measure, Tailor's.....	F. H. Ullrich.....	167,957	Sept. 21, 1875	533	171	8	498
Measure, Tailor's coat.....	J. S. Charch.....	170,157	Nov. 23, 1875	848	265	8	868
Measure, Variable.....	C. P. Sullivan, jr.....	162,679	Oct. 11, 1875	354	115	8	623
Measures, Pouring-lip for sheet-metal.....	A. C. Cummings.....	162,037	Apr. 13, 1875	395	133	8	635
Measuring apparatus, Cloth.....	J. J. Greenough.....	161,877	Apr. 13, 1875	266	89	7	618
Measuring apparatus, Liquid.....	E. E. P. Clausolles.....	166,502	Aug. 10, 1875	316	95	8	251
Measuring apparatus, Liquid.....	J. M. Hopkins.....	165,447	July 13, 1875	317	93	8	59
Measuring apparatus, Tailor's.....	A. H. Richey.....	165,026	June 29, 1875	1134	266	7	1117
Measuring distances and altitudes, Instrument for.....	E. C. Roberts.....	165,616	July 13, 1875	473	144	8	82
Measuring distances, Apparatus for.....	F. Weldon.....	165,282	July 6, 1875	124	38	8	16
Measuring instrument, Distance.....	W. F. Harrsch.....	160,823	Mar. 16, 1875	545	177	7	441
Measuring machine, Cloth.....	J. S. Gold.....	161,947	Apr. 13, 1875	326	{ 109 110 }	7	626
Measuring machine, Cloth.....	M. Knott.....	164,694	June 8, 1875	249	85	7	976
Measuring machine, Cloth.....	J. Sullivan.....	162,973	May 4, 1875	223	72	8	776
Measuring packaged fabrics.....	S. C. Talcott.....	165,131	June 29, 1875	1226	394	7	1130
Measuring-tank.....	J. Lessler.....	160,530	Mar. 9, 1875	260	89	7	395
Meat and vegetable slicer.....	J. W. Murkland.....	160,221	Feb. 23, 1875	939	308	7	334
Meat, &c., Canning apparatus for.....	W. Leland.....	168,508	Oct. 5, 1875	171	55	8	589
Meat case or can, Convertible.....	A. Chambers, jr., and A. M. McCook.....	163,359	May 18, 1875	614	196	7	851
Meat-chopper.....	W. L. Fallis.....	166,865	Aug. 17, 1875	658	204	8	309
Meat-chopper.....	A. Nittinger, jr.....	160,944	Mar. 16, 1875	647	211	7	455
Meat-chopper.....	J. Perkins.....	160,225	Feb. 23, 1875	942	309	7	334
Meat-cutter.....	G. L. and J. B. Chadborn.....	170,053	Nov. 16, 1875	721	229	8	844
Meat-cutter.....	D. I. Degroat.....	167,649	Sept. 14, 1875	251	78	8	448
Meat-cutter.....	C. Fogelberg.....	162,909	May 4, 1875	158	51	7	768
Meat-cutter.....	H. P. Goddard.....	165,442	July 13, 1875	313	92	8	58
Meat-cutter.....	A. B. Good.....	165,413	July 13, 1875	314	92	8	58
Meat-cutter.....	J. P. Harris.....	161,510	Mar. 30, 1875	1207	388	8	544
Meat-cutter.....	J. H. Hollinger.....	161,961	Apr. 13, 1875	337	113	7	627
Meat-cutter.....	G. W. Rawson.....	170,898	Dec. 7, 1875	213	74	8	979
Meat-cutters, Chopping-block for.....	H. P. Rankin.....	162,286	Sept. 28, 1875	864	276	8	551
Meat-cutting apparatus.....	J. A. Morrell.....	158,804	Jan. 19, 1875	438	146	7	101
Meat-cutting apparatus.....	J. A. Morrell.....	158,805	Jan. 19, 1875	439	146	7	101
Meat for packing, Machine for cutting.....	W. Pitt.....	162,495	Apr. 27, 1875	867	278	7	709
Meat in cutting, Apparatus for holding.....	W. Tetley.....	167,710	Sept. 14, 1875	303	93	2	456
Meat-mangler.....	C. C. Kerr.....	170,378	Nov. 23, 1875	1011	327	8	895
Meat-pounder.....	J. T. Black and J. Truax.....	166,332	Aug. 3, 1875	134	42	8	218
Meat-tenderer.....	G. R. Comstock.....	166,189	Aug. 3, 1875	7	3	8	200
Meat-tenderer.....	J. A. Cornish.....	159,393	Feb. 2, 1875	135	47	7	203
Meat-tenderer.....	A. G. W. Foster.....	166,199	Aug. 3, 1875	16	5, 6	8	201
Mechanical device.....	J. F. Kelly.....	163,645	Oct. 11, 1875	327	106	8	618
Mechanical motor.....	J. W. H. Doubler.....	167,999	Sept. 21, 1875	557	183	8	503
Mechanical power.....	E. Cary.....	161,753	Apr. 6, 1875	141	49	7	5-9
Medical compound.....	J. Cooper.....	164,674	June 2, 1875	797	.....	7	1006
Medical purposes, Mask for.....	H. M. Rowley.....	165,955	July 27, 1875	823	253	8	157
Medicine.....	J. M. Adamson.....	164,251	Mar. 2, 1875	1	.....	7	319
Medicine.....	T. Biedenfeld.....	163,249	Aug. 3, 1875	53	.....	8	207
Medicine.....	L. P. Brand.....	167,737	Sept. 14, 1875	323	.....	8	459
Medicine.....	L. Corfman.....	166,853	Aug. 17, 1875	648	.....	8	308
Medicine.....	N. Sullivan.....	165,823	Aug. 17, 1875	617	.....	8	304
Medicine.....	I. T. Thrash.....	170,918	Dec. 7, 1875	232	.....	8	932
Medicine.....	C. C. Troutman.....	166,655	Aug. 10, 1875	443	.....	8	270
Medicine-dropper.....	J. Barnes.....	158,564	Jan. 12, 1875	202	69	7	53
Melting furnace, Metal.....	W. E. C. Eustis.....	166,757	Aug. 17, 1875	561	172	8	295
Meridian, Apparatus for finding true.....	H. C. Pearson.....	166,137	July 27, 1875	997	308	8	182
Metal axles, Apparatus for setting.....	F. Rex.....	171,343	Dec. 21, 1875	672	222	8	1055
Metal bars, Enlarging the ends of.....	G. H. Sellers.....	162,422	Apr. 20, 1875	777	252	7	690
Metal bars, Machine for bending.....	A. H. Campbell.....	162,450	Oct. 5, 1875	114	39	8	582

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Metal-boring bit	W. McCrosson	159,948	Feb. 16, 1875	681	225	7	290
Metal bullion, Refining base	F. H. Bousfield	162,891	May 4, 1875	139		7	765
Metal-coating composition	E. J. W. Burras	158,902	Jan. 19, 1875	533		7	113
Metal-creasing machine	G. W. and C. P. Howell	159,096	Jan. 26, 1875	734	{ 242 243 }	7	147
Metal-drill ratchet-brace	H. C. Hart	167,897	Sept. 21, 1875	489	155	8	491
Metal-drilling drill	J. B. Shaw and S. H. Lucas	162,315	Apr. 20, 1875	669	218	7	677
Metal-drilling drill	H. Smith	164,604	June 15, 1875	722	235	7	1047
Metal-drilling drill	D. L. Topham	163,342	May 18, 1875	601	192	7	849
Metal-drilling machine	J. S. Schoonover	167,026	Aug. 24, 1875	827	258	8	342
Metal-drilling machine	C. Van Haagen	159,481	Feb. 2, 1875	227	74	7	216
Metal or paper gage	E. W. Dennison	165,158	July 6, 1875	11	4	8	10
Metal pipes, Device for bending	M. L. Orum	166,293	Aug. 3, 1875	99	31	8	213
Metal plates, Apparatus for pickling	W. Gething, D. Jenkins, and S. Gardner	160,178	Feb. 23, 1875	899	296	7	328
Metal-rod-coiling machine for	P. H. Standish	159,367	Feb. 2, 1875	113	39	7	200
Metal-shears	T. C. Livesay and H. H. Black	168,908	Oct. 19, 1875	574	189	8	662
Metal tubing, Manufacture of	W. L. McNair	164,497	June 15, 1875	692	204	7	1035
Metal-turning tool	W. Clay	160,161	Feb. 23, 1875	887	292	7	326
Metal-turning tool	C. Cummings	161,007	Mar. 23, 1875	708	234	7	472
Metal-working machines, Tool-receptacle for	W. H. Hoffman	164,561	June 15, 1875	685	222	7	1042
Metals, Anti-friction	T. Harrington	162,165	Apr. 13, 1875	424		7	639
Metals, Apparatus for introducing refining materials into molten	E. P. Hudson	165,929	July 27, 1875	800	245	8	155
Metals from oxidation, Preserving	A. Ara and M. Del Budda	163,291	May 18, 1875	551		7	843
Metallic can	G. W. Bell	167,870	Sept. 21, 1875	466	147	8	488
Metallic fastener	G. W. McGill	162,184	Apr. 20, 1875	551	181	7	662
Metallic pipes, Tin-lining	J. Ferguson	158,790	Jan. 19, 1875	425		7	99
Metallic rods and bars, Roll for rounding and smoothing	T. S. Cook	162,155	Apr. 20, 1875	523	172	7	658
Metallic surfaces, Composition for covering	J. Ferguson	171,004	Dec. 14, 1875	334		8	1002
Metallic-tube-bending machine	J. M. Reid	170,300	Nov. 23, 1875	974	305	8	885
Metallic washer	M. G. Hubbard	162,386	Apr. 20, 1875	741	241	7	685
Metallurgic furnace	B. Bayliss	160,140	Feb. 23, 1875	868	287	7	324
Metallurgic furnace	J. Feix	160,662	Mar. 9, 1875	374	126	7	411
Metallurgic furnace	T. D. Morgan	163,795	May 25, 1875	1,014	321	7	911
Metallurgic furnace	W. Swindell	165,630	July 13, 1875	488	148	8	84
Metallurgic furnaces, Apparatus for supplying gas as a fuel to. }	W. Rogers	164,876	June 22, 1875	987	{ 318 319 }	7	1090
Metallurgic heating-furnace	H. Ragot	159,039	Jan. 26, 1875	685	{ 225 226 }	7	140
Metallurgical furnace	E. Savage	171,321	Dec. 21, 1875	654	215	8	1052
Meter:							
See Fluid-meter. Liquid and gas meter.							
Gas-meter. Photometer.							
Grain-meter. Water-meter.							
Liquid-meter.							
Meter	W. R. Baker	159,143	Jan. 26, 1875	774	254	7	152
Middlings-purifier	J. Brown	162,269	Apr. 20, 1875	630	205	7	672
Middlings-purifier	S. M. Brna	162,620	Apr. 27, 1875	970	312	7	723
Middlings-purifier	A. Crabtree	171,551	Dec. 28, 1875	883	289	9	1092
Middlings-purifier	S. Crittenden and J. Waters	162,276	Apr. 20, 1875	635	207	7	672
Middlings-purifier	R. L. Downton	162,158	Apr. 20, 1875	527	173	7	659
Middlings-purifier	W. J. Tender	159,505	Feb. 9, 1875	262	85	7	228
Middlings-purifier	J. F. Gandolfo	170,251	Nov. 23, 1875	933	290	8	880
Middlings-purifier	L. Gathman	161,875	Apr. 13, 1875	264	88, 89	7	618
Middlings-purifier	R. G. Gunier	166,770	Aug. 17, 1875	573	176	8	297
Middlings-purifier	C. T. Hanna	161,227	Mar. 23, 1875	914	299	7	499
Middlings-purifier	J. W. Houghtelin	162,555	Apr. 27, 1875	917	294	7	715
Middlings-purifier	A. Hunter	167,102	Aug. 24, 1875	902	281	8	352
Middlings-purifier	W. W. Huntley, A. P. Holcomb, and A. Heine	163,074	May 11, 1875	332	108	7	798
Middlings-purifier	E. W. Johnson	158,418	Jan. 5, 1875	52	20	7	17
Middlings-purifier	J. C. and F. C. Knoebel	165,240	July 6, 1875	91	27	8	21
Middlings-purifier	J. W. Metz	170,102	Nov. 16, 1875	772	244	8	851
Middlings-purifier	H. F. Notbohm	167,619	Sept. 14, 1875	225	70	8	445
Middlings-purifier	A. F. Ordway	168,177	Sept. 28, 1875	768	243	8	538
Middlings-purifier	J. Rigby	160,351	Mar. 2, 1875	84	30	7	360
Middlings-purifier	K. Schwat	163,040	May 11, 1875	293	95	7	793
Middlings-purifier	G. T. Smith	158,992	Jan. 19, 1875	618	205	7	124
Middlings-purifier	M. Lower	169,308	Oct. 26, 1875	961	311	8	722
Middlings-purifier	A. P. Teachout	169,061	Oct. 19, 1875	711	235	8	681
Middlings-purifier	J. L. Willford	171,542	Dec. 28, 1875	875	286	8	1091
Middlings-purifier	J. W. Wilson	158,771	Jan. 12, 1875	385	130	7	78
Milk-can	S. F. Hawley and H. A. Mead	166,525	Aug. 10, 1875	334	101	8	254
Milk-can	J. H. Lester	170,094	Nov. 16, 1875	765	242	8	850
Milk-can	J. W. Smith	165,768	July 20, 1875	623	191	8	119
Milk-can handle	E. B. Curtis	167,647	Sept. 14, 1875	250	78	8	448
Milk-can receptacle	N. Littlefield	171,294	Dec. 21, 1875	633	207	8	1049
Milk-conductor	E. Macy	161,899	Apr. 13, 1875	276	93	7	620
Milk-cooler	I. Barrows	163,443	May 18, 1875	685	{ 218 219 }	7	860
Milk-cooler	B. C. Bort	170,618	Nov. 30, 1875	1287	407	8	936
Milk-cooler	N. D. Ferguson	171,219	Dec. 21, 1875	565	186	8	1040
Milk-cooler	D. Gurnsey	161,952	Apr. 13, 1875	330	111	7	627
Milk-cooler	O. P. Hadcock and F. W. Pierce	158,840	Jan. 19, 1875	471	158	7	105
Milk-cooler	W. H. Johnson	165,102	June 29, 1875	1204	387	7	1126
Milk-cooler	G. McEwan and C. O. Gibson	160,273	Mar. 2, 1875	17	7	7	351
Milk-cooler	F. M. Moore	164,197	June 8, 1875	336	115	7	987
Milk-cooler	H. S. Murray	162,574	Apr. 27, 1875	932	299	7	718
Milk-cooler	A. P. Myers	161,979	Apr. 13, 1875	352	118	7	629
Milk-cooler	L. C. Palmer	168,104	Sept. 28, 1875	699	{ 220 221 }	8	528
Milk-cooler	E. N. Porter and M. B. Eaton	165,364	July 6, 1875	201	60	8	33
Milk-cooler	P. Read and J. H. Allen	164,480	June 15, 1875	618	200	7	1036

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Milk-cooler.....	L. J. Roberts.....	158,603	Jan. 12, 1875	239	81	7	57
Milk-cooler.....	W. R. Scofield.....	169,196	Oct. 26, 1875	853	278	8	708
Milk-cooler.....	R. Smith.....	164,048	June 1, 1875	182	65	7	956
Milk-cooler.....	I. H. Wanzer.....	171,251	Dec. 21, 1875	594	195	8	1045
Milk-cooler.....	O. H. Willard.....	166,051	July 27, 1875	912	281	8	170
Milk-cooler and cheese-vat.....	C. W. Grannis.....	161,608	Apr. 6, 1875	17	7	7	571
Milk cooler and heater.....	M. L. Lush.....	170,986	Dec. 14, 1875	318	105	8	1000
Milk-cooling apparatus.....	O. J. Stickles.....	159,854	Feb. 16, 1875	592	196	7	278
Milk during transportation, Preserving.....	J. H. Lester.....	170,003	Nov. 16, 1875	678	.....	8	838
Milk, Testing.....	A. Meucci.....	168,273	Sept. 28, 1875	852	271	8	550
Milk-testing process.....	A. Middaugh.....	161,142	Mar. 23, 1875	838	273	7	489
Milking-tube.....	S. A. Smith.....	163,816	May 25, 1875	1032	327	7	913
Mill:							
See Barley-mill. Grinding-mill.							
Cheese-mill. Hominy-mill.							
Cider-mill. Rolling-mill.							
Coffee-mill. Saw-mill.							
Disintegrating-mill. Smut-mill.							
Feed-mill. Stamp-mill.							
Fanning-mill. Stamping-mill.							
Flour-mill. Windmill.							
Fulling-mill.							
Mill.....	J. Aubin.....	167,290	Aug. 31, 1875	1089	342	8	385
Mill.....	I. A. Hedges.....	170,367	Nov. 23, 1875	1029	323	8	894
Mill.....	J. Kaiser.....	166,466	Aug. 10, 1875	287	86	8	247
Mill-buhr-furrow gage.....	H. Wilhelm and S. F. Leyde.....	170,143	Nov. 16, 1875	811	255	8	856
Mill-buhrs, Manufacture of iron.....	J. G. Baker.....	162,008	Apr. 13, 1875	374	125	7	632
Mill-feed regulator.....	S. B. Kenworthy and J. R. Van-meter.	161,885	Apr. 13, 1875	273	91	7	619
Mill-spindle.....	R. S. Cathcart.....	160,874	Mar. 16, 1875	585	190	7	446
Mill-spindle.....	W. Elliot.....	159,567	Feb. 9, 1875	319	104	7	236
Mill-spindle.....	G. B. Root and W. W. Robinson.....	169,847	Nov. 9, 1875	530	166	8	810
Mill-spindle bush.....	N. B. Lewis.....	166,210	Aug. 3, 1875	25	8	8	202
Miller's paint-staff.....	W. Ransom.....	161,155	Mar. 23, 1875	850	277	7	490
Milling-machine.....	W. Krutzsch.....	166,704	Aug. 17, 1875	510	156	8	288
Milling-tool.....	E. F. Bonaventure.....	162,739	May 4, 1875	4	2	7	747
Millstone.....	H. J. Fogh.....	171,115	Dec. 14, 1875	432	144	8	1015
Millstone.....	G. T. Smith.....	170,120	Nov. 16, 1875	787	250	8	853
Millstone-balance.....	J. A. Althouse.....	160,864	Mar. 16, 1875	577	188	7	445
Millstone-balance.....	S. Bernheisel.....	162,143	Apr. 20, 1875	513	169	7	657
Millstone-balance.....	H. C. Byram.....	160,304	Mar. 2, 1875	41	16	7	354
Millstone-balance.....	C. E. Goshert.....	160,317	Mar. 2, 1875	56	20	7	357
Millstone-bearing.....	C. Juster.....	170,346	Nov. 23, 1875	1013	318	8	892
Millstone-bush.....	S. Bernheisel.....	161,000	Mar. 23, 1875	703	232	7	472
Millstone-bush.....	R. S. Cathcart.....	160,875	Mar. 16, 1875	586	191	7	447
Millstone-dress.....	H. T. Ashworth.....	162,878	May 4, 1875	128	42	7	764
Millstone-dress.....	J. Carvill and J. Caven.....	161,097	Mar. 23, 1875	796	261	7	484
Millstone-dress.....	G. T. Smith.....	166,419	Aug. 3, 1875	221	67	8	230
Millstone-dress.....	J. A. Witman and G. W. Seibert.....	162,733	Apr. 27, 1875	1092	346	7	737
Millstone-dressing.....	J. Williams.....	159,133	Jan. 26, 1875	767	252	7	151
Millstone-dressing machine.....	G. Heydrich.....	169,440	Nov. 2, 1875	109	34	8	750
Millstone-dressing machine.....	D. Savage and H. Coleman.....	163,811	May 25, 1875	1029	326	7	918
Millstone-dressing machine.....	C. A. Smith.....	165,958	July 27, 1875	825	253	8	158
Millstone-dressing machine, Diamond.....	O. G. Vanderhoof.....	166,570	Aug. 10, 1875	371	114	8	260
Millstone-driver.....	W. E. Sergeant.....	170,454	Nov. 30, 1875	1128	356	8	915
Millstone-driver.....	H. Wilhelm.....	171,459	Dec. 21, 1875	778	257	8	1069
Millstone proof-staff.....	J. C. Kepler.....	166,929	Aug. 24, 1875	732	227	8	329
Millstone-spindle trammer.....	A. Eshelman.....	169,157	Oct. 26, 1875	824	267	8	704
Millstone-staff.....	J. See.....	168,419	Oct. 5, 1875	89	31	8	577
Millstone-staff.....	P. Sellers.....	168,348	Oct. 5, 1875	26	10	8	568
Millstone-staff.....	G. T. Smith.....	169,858	Nov. 9, 1875	541	169	8	812
Millstone tram and staff.....	M. T. Greenleaf and F. Kruse.....	170,550	Nov. 30, 1875	1219	383	8	928
Millstones and spindles, Device for adjusting.....	S. Whitaker.....	166,174	July 27, 1875	1035	318	8	187
Millstones, Balancing.....	W. Gosshorn.....	171,373	Dec. 21, 1875	700	231	8	1059
Millstones, Counterbalancing.....	H. Klinkermann.....	166,785	Aug. 17, 1875	585	180	8	299
Millstones, Making emery-rubbers for buhr.....	E. C. Hinzey.....	161,414	Mar. 30, 1875	1114	360	7	532
Mincing-machine.....	J. A. Miller.....	162,247	Apr. 20, 1875	610	199	7	669
Miner's tool.....	J. Holmes and P. P. Quirin.....	165,580	July 13, 1875	439	133	8	78
Mines, Ventilating.....	L. J. Henry.....	162,920	May 4, 1875	165	54	7	769
Mines, Ventilating apparatus for coal.....	F. Murphy.....	163,098	May 11, 1875	354	{ 115 } { 116 }	7	801
Mining-apparatus.....	J. Bloss and E. J. White.....	159,296	Feb. 2, 1875	48	17	7	191
Mining-apparatus.....	W. Bulchley and T. Thorn.....	160,303	Mar. 2, 1875	40	15	7	354
Mining-drill.....	J. S. Fleming.....	170,249	Nov. 23, 1875	930	290	8	879
Mining-drills, Adjustable tripod for.....	J. H. Mandeville.....	164,315	June 8, 1875	450	{ 148 } { 149 }	7	1002
Mining-machine.....	A. Crombie.....	171,470	Dec. 28, 1875	805	265	8	1081
Mining-machine.....	J. J. Weinell.....	168,817	Oct. 11, 1875	476	155	8	639
Mining-powder.....	R. Cabuc.....	161,325	Mar. 30, 1875	1027	.....	7	521
Mirror.....	A. Huber.....	163,930	June 1, 1875	77	26	7	941
Mirror, Toilet.....	H. Palmieri.....	167,558	Sept. 7, 1875	156	49	8	428
Mirror, Toilet.....	E. T. Starr.....	162,777	May 4, 1875	39	12	7	752
Mirror, Window.....	D. J. Kennedy.....	165,738	July 20, 1875	596	183	8	115
Mirrors, Process for producing amalgamated silvering for.....	J. J. E. Lenoir.....	166,790	Aug. 17, 1875	589	.....	8	300
Miter-box.....	H. Dittenhafer.....	161,014	Mar. 23, 1875	715	236	7	473
Miter-box.....	H. Hempel.....	159,573	Feb. 9, 1875	323	106	7	236
Miter-box.....	P. and N. H. Johnson.....	166,010	July 27, 1875	875	269	8	165
Miter-box.....	T. C. Lawrence.....	161,690	Apr. 6, 1875	87	30	7	581
Miter-box.....	P. and W. G. Suydam.....	159,368	Feb. 2, 1875	114	39	7	200
Miter, level, and plumb, Combined.....	J. Murray.....	167,556	Sept. 7, 1875	155	48	8	428
Miter-machine.....	D. A. Fisher.....	160,090	Feb. 23, 1875	827	272	7	318
Mitering-machine.....	C. P. Poinier.....	159,552	Feb. 9, 1875	309	100	7	234
Mitten.....	J. H. Peabody.....	160,464	Mar. 2, 1875	185	64	7	375

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Mixer: See Dough-mixer. Liquid-mixer.							
Mold: See Bobbin-casting mold. Gear-wheel mold.							
Brick-mold. Glass-mold.							
Casting-mold. Glassware-mold.							
Cigar-mold. Ingot-mold.							
Crucible-mold. Sugar-mold.							
Electrotype seamless Suppository-mold.							
Molds, Mode of blackwashing.	J. B. Ashton	165,196	July 6, 1875	54	16	8	16
Molder's flask	N. M. Chafee	159,793	Feb. 16, 1875	538	179	7	271
Molder's flask	H. H. Garrett	167,890	Sept. 21, 1875	483	153	8	490
Molder's match-plates, Machine for operating	J. T. Peet	169,473	Nov. 2, 1875	136	45	8	754
Molding apparatus	P. W. Doherty	170,070	Nov. 16, 1875	741	235	8	847
Molding, Apparatus for enameling	W. Wallick	163,825	May 25, 1875	1039	329	7	914
Molding, Enameling	A. C. White	161,187	Mar. 23, 1875	874	286	7	494
Molding-flask	B. B. Bunnell and G. T. B. Hosley	167,298	Aug. 31, 1875	1096	344	8	387
Molding for enameling, Process of preparing	M. A. Owens	171,629	Dec. 28, 1875	972	315	8	1104
Molding-instrument	D. Walther	165,633	July 13, 1875	490	149	8	85
Molding-machine	J. H. Blaisdell	162,343	Apr. 20, 1875	696	226	7	680
Molding-machine	B. B. Bunnell and G. T. B. Hosley	167,259	Aug. 31, 1875	1097	344	8	387
Molding-machine	A. H. Frank and G. Spire	165,720	July 20, 1875	582	178	8	113
Molding-machine	A. S. Gear	165,669	July 20, 1875	538	164	8	107
Molding-machine	T. F. Hammer	161,784	Apr. 6, 1875	166	57	7	593
Molding-machine	J. Hartzheim	161,959	Apr. 13, 1875	335	113	7	627
Molding-machine	L. Houston	171,134	Dec. 14, 1875	457	150	8	1018
Molding-machine	J. R. Locke	164,650	June 22, 1875	776	254	7	1063
Molding-machine	A. Miller	160,114	Feb. 23, 1875	847	279	7	321
Molding-machine	S. J. Peet, M. C. and J. C. Poland, jr., and J. W. Willis.	163,604	May 25, 1875	856	270	7	889
Molding-machine	G. W. Wetmore	160,491	Mar. 2, 1875	212	73	7	379
Molding, Machine for finishing wood	J. S. Loomis	164,097	June 8, 1875	251	86	7	976
Molding, Machine for making rope	O. P. Doray	161,600	Apr. 6, 1875	11	4, 5	7	570
Molding, Machine for making rope	H. Glanz	167,329	Aug. 31, 1875	1122	352	8	390
Molding, Machine for polishing	J. A. Dayton	165,073	June 29, 1875	1176	378	7	1123
Molding-machine pressure-feet, Adjusting	J. S. Loomis	171,296	Dec. 21, 1875	634	208	8	1050
Molding machine, Variety	J. Sears	166,817	Aug. 17, 1875	612	190	8	303
Molding machine, Wood	H. A. Holt	159,514	Feb. 9, 1875	279	90	7	230
Molding, Mode of dressing enameled	A. C. White	171,455	Dec. 21, 1875	774	256	8	1069
Molding, Picture-rod	A. C. Funston	159,027	Jan. 26, 1875	676	221	7	138
Monument	L. J. Milliman	171,405	Dec. 21, 1875	734	241	8	1063
Monument	M. A. Richardson	158,866	Jan. 19, 1875	493	166	7	108
Monument	J. N. and T. Wallis	169,751	Nov. 9, 1875	434	137	8	799
Monument, Glass	A. Pfeiffer	167,470	Sept. 7, 1875	78	24	8	417
Mop	C. B. Clark	163,460	May 18, 1875	700	223	7	862
Mop	E. Johnson and J. Barnes	165,588	July 13, 1875	446	135	8	78
Mop and brush holder	C. B. Clark	167,304	Aug. 31, 1875	1100	346	8	387
Mop and brush holder	C. B. Clark	170,525	Nov. 30, 1875	1192	376	8	924
Mop-head	C. B. Clark	166,342	Aug. 3, 1875	143	44	8	220
Mop-head	J. K. Clark	166,850	Aug. 17, 1875	645	201	8	308
Mop-wringer	M. Regan	165,949	July 27, 1875	819	251	8	157
Mortise cutter, Rectangular	J. Doyle	171,109	Dec. 14, 1875	427	142	8	1015
Mortise-lock, Sliding-door	B. Mallory	164,572	June 15, 1875	695	226	7	1044
Mortising-machine	J. J. Berger	171,261	Dec. 21, 1875	604	197	8	1046
Mortising-machine	J. Berry	165,294	July 6, 1875	136	41	8	27
Mortising-machine	S. Duck	171,360	Dec. 21, 1875	689	227	8	1057
Mortising-machine	W. J. Ludlow	160,340	Mar. 2, 1875	75	26	7	359
Mortising-machine	S. Rydbeck	159,456	Feb. 2, 1875	198	65	7	212
Mortising-machine	M. G. Wilder, W. H. McNeil, S. H. Wilder, and H. C. Tyler.	168,696	Oct. 11, 1875	367	120	8	624
Mortising-machine	S. H. Wilder	162,987	May 4, 1875	237	76	7	778
Mortising machine, Lock	C. J. Hardee	164,295	June 8, 1875	432	144	7	1000
Mortising-tool	G. Erlin	158,835	Jan. 19, 1875	467	157	7	104
Mosquito-bar frame	W. F. Howe	158,713	Jan. 12, 1875	335	114	7	71
Mosquito-canopy	I. E. Palmer	159,441	Feb. 2, 1875	181	61	7	210
Moss, Mode of curing	P. Unsworth	168,944	Oct. 19, 1875	602	.....	8	666
Moth-trap	B. F. Daniel	169,966	Nov. 16, 1875	646	202	8	834
Moth-trap	W. Hollis	163,071	May 11, 1875	330	107	7	798
Moth-trap	J. Neal	164,199	June 8, 1875	337	115	7	988
Motion, Apparatus for transmitting	J. L. Scott	171,052	Dec. 14, 1875	375	123	8	1007
Motion, Apparatus for transmitting and regulating	J. Zengel	165,144	June 29, 1875	1238	399	7	1132
Motion, Converting	W. Dawes	170,531	Nov. 30, 1875	1199	378	8	925
Motion, Converting	J. M. Wilkinson	167,377	Aug. 31, 1875	1167	367	8	397
Motion, Device for converting	M. Crossman	170,427	Nov. 23, 1875	1088	342	8	902
Motion, Device for converting	G. Turner	164,783	June 22, 1875	895	291	7	1079
Motion, Device for transmitting	R. De Leidi	163,003	May 11, 1875	266	86	7	790
Motion for machinery, Stop	J. W. Askie	163,624	May 25, 1875	874	275	7	892
Motion, Machine for converting	D. C. Burson	166,338	Aug. 3, 1875	140	43	8	219
Motion, Traverse	C. L. Noe	166,801	Aug. 17, 1875	601	186	8	301
Motive-power	E. Brettell and J. Lindsey	169,233	Oct. 26, 1875	888	288	8	713
Motive-power	P. B. Greene	166,271	Aug. 3, 1875	79	24	8	210
Motive-power engine	C. V. Wyss and H. Studer	162,785	May 4, 1875	47	15	7	753
Motive power, Mode of obtaining	C. Faivre	159,660	Feb. 9, 1875	396	132	7	247
Motor: See Car-motor. Mechanical motor.							
Electric motor. Oil-motor.							
Hydraulic motor. Sewing-machine motor.							
Machinery-motor. Spring-motor.							
Motor	J. H. Bean	166,331	Aug. 3, 1875	133	41	8	218

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Motor	J. M. C. yce	160,646	Mar. 9, 1875	358	121	7	409
Motor	H. Odell	160,460	Mar. 2, 1875	182	63	7	374
Motor	J. G. Peterson	163,689	May 25, 1875	923	294	7	899
Motor	C. Van De Mark	164,407	June 15, 1875	553	180	7	1024
Mousing-hook	F. G. Appley	164,125	June 8, 1875	274	94	7	979
Mousing-hook	N. E. Johnsen and S. Adams	163,660	May 25, 1875	902	286	7	896
Movement, Mechanical	W. F. and J. Barnes	164,413	June 15, 1875	560	182	7	1025
Movement, Mechanical	W. F. and J. Barnes	164,414	June 15, 1875	561	182	7	1025
Movement, Mechanical	A. and I. Beck	166,958	Aug. 24, 1875	761	235	8	332
Movement, Mechanical	P. Bellinger	167,213	Aug. 31, 1875	1025	318	8	376
Movement, Mechanical	P. Broadbrooks	166,844	Aug. 17, 1875	636	198	8	307
Movement, Mechanical	O. Child	169,341	Nov. 2, 1875	17	5	8	737
Movement, Mechanical	H. S. Combs and W. Rhodes	164,076	June 8, 1875	232	81	7	973
Movement, Mechanical	P. M. Cummings	162,462	Apr. 27, 1875	837	269	7	706
Movement, Mechanical	J. R. Devor	162,538	Apr. 27, 1875	903	289	7	714
Movement, Mechanical	J. A. Hart and H. Scott	160,427	Mar. 2, 1875	152	53	7	370
Movement, Mechanical	W. H. Hornum	171,132	Dec. 14, 1875	455	149	8	1018
Movement, Mechanical	J. Hughes	169,704	Nov. 9, 1875	386	121	8	793
Movement, Mechanical	G. Juengst	171,572	Dec. 28, 1875	903	295	8	1095
Movement, Mechanical	E. Leslie	170,280	Nov. 23, 1875	955	299	8	883
Movement, Mechanical	J. McCloskey	168,337	Oct. 5, 1875	18	7	8	567
Movement, Mechanical	J. McCloskey	168,575	Oct. 11, 1875	260	85	8	608
Movement, Mechanical	J. F. McCormick	171,399	Dec. 21, 1875	729	239	8	1062
Movement, Mechanical	J. A. Newell	162,681	Apr. 27, 1875	1035	330	7	730
Movement, Mechanical	J. L. Scott	171,053	Dec. 14, 1875	376	121	8	1008
Movement, Mechanical	D. Williamson	159,877	Feb. 16, 1875	616	204	7	282
Movement, Mechanical	C. B. Withington	170,927	Dec. 7, 1875	239	82	8	982
Mower, Lawn	T. Coldwell	162,626	Apr. 27, 1875	975	313	7	723
Mower, Lawn	H. C. Crowell	160,882	Mar. 16, 1875	592	193	7	447
Mower, Lawn	S. A. Hand	158,794	Jan. 19, 1875	429	143	7	99
Mower, Lawn	A. Turnbull and F. N. Frost	168,810	Oct. 11, 1875	469	153	8	638
Mower, Lawn	H. T. West	159,131	Jan. 26, 1875	765	252	7	151
Mowing and reaping machines, Pitman-box for	C. H. Salzman	167,025	Aug. 24, 1875	826	257	8	342
Mowing-machine	J. Ashcroft	169,668	Nov. 9, 1875	348	{ 109 110 }	8	788
Mowing-machine	W. W. Briglin	161,322	Mar. 30, 1875	102	333	7	521
Mowing-machine	P. W. Brownback	159,496	Feb. 9, 1875	254	82	7	227
Mowing-machine	W. F. Cochrane	158,910	Jan. 19, 1875	539	179	7	113
Mowing-machine	E. C. Dewers	159,804	Feb. 16, 1875	549	183	7	273
Mowing-machine	W. C. Douthett	170,665	Dec. 7, 1875	10	3, 4	8	952
Mowing-machine	D. H. Gage	169,162	Oct. 26, 1875	827	{ 268 269 }	8	704
Mowing-machine	J. Garfield	161,024	Mar. 23, 1875	725	{ 238 239 }	7	475
Mowing-machine	A. Gordon, G. Telford, and J. H. Myers	163,183	May 11, 1875	432	140	7	811
Mowing-machine	A. G. Gray	169,435	Nov. 2, 1875	105	33	8	749
Mowing-machine	A. L. Little	164,192	June 8, 1875	332	113	7	987
Mowing-machine	D. Lochhead	165,453	July 13, 1875	324	95	8	60
Mowing-machine	J. P., F. E., and O. E. Lord	161,136	Mar. 23, 1875	834	272	7	488
Mowing-machine	W. Lorey	162,082	Apr. 13, 1875	437	145	7	640
Mowing-machine	J. P. Manny	166,019	July 27, 1875	883	273	8	166
Mowing-machine	H. C. and D. C. Markham	161,533	Mar. 30, 1875	1227	395	7	547
Mowing-machine	D. S. Morgan and T. Motley	159,277	Feb. 2, 1875	31	11, 12	7	189
Mowing-machine	G. H. Weeks	158,553	Jan. 5, 1875	174	60	7	33
Mowing-machine	C. Wheeler, jr.	165,461	July 13, 1875	334	98	8	61
Mowing-machine	C. Wheeler, jr., and H. J. Case	163,709	May 25, 1875	941	299	7	901
Mowing-machine	D. Wolf	168,700	Oct. 11, 1875	371	121	8	625
Mowing-machine	W. A. Wood	163,128	May 11, 1875	381	123	7	805
Mowing-machine	W. A. Wood, E. Borrhay, and J. M. Rosebrooks	168,951	Oct. 19, 1875	607	201	8	667
Mowing-machine knives, Machine for sharpening	G. V. Phelps	166,629	Aug. 10, 1875	423	131	8	267
Mowing-machine lever attachment	A. B. Conde	161,483	Mar. 30, 1875	1177	378	7	540
Mucilage-holder	H. T. Cushman	163,919	June 1, 1875	67	23	7	940
Muff	E. Winkler	165,645	July 13, 1875	503	154	8	86
Muff-block former	E. Sirret	165,849	Oct. 19, 1875	516	169	8	654
Muff, Ear	E. Strausz	165,273	July 6, 1875	118	36	8	25
Muff, Head	H. Fürst	167,234	Aug. 31, 1875	1042	324	8	379
Muff, Head	L. B. Kleinert	167,543	Sept. 7, 1875	145	44	8	426
Muffler, Ear	B. Edgar	170,942	Dec. 14, 1875	273	91	8	994
Mug, Shaving	D. Heston	162,921	May 4, 1875	166	55	7	769
Mule-carriages, Buffer for	J. W. Whitehead	166,435	Aug. 3, 1875	239	73	8	233
Music-box	C. Paillard	161,055	Mar. 23, 1875	751	247	7	478
Music holder, Sheet	B. J. Beck	163,966	June 1, 1875	105	36	7	945
Music-leaf turner	G. M. Cohen and G. Dietz	163,637	May 25, 1875	884	279	7	893
Music-leaf turner	G. L. Dimpfel	160,399	Mar. 2, 1875	124	45	7	367
Music-leaf turner	F. G. Johnson	160,826	Mar. 16, 1875	548	178	7	441
Music-leaf turner	F. G. Johnson	167,541	Sept. 7, 1875	143	44	8	426
Music-leaf turner	W. H. King	159,101	Jan. 26, 1875	739	244	7	148
Music-leaf turner	E. A. Maedel	160,449	Mar. 2, 1875	175	60	7	373
Music-leaf turner	W. Miller	170,103	Nov. 16, 1875	713	245	8	831
Music-recorder, Automatic	G. Landrien	163,932	June 1, 1875	78	26, 27	7	941
Music-sheet, Electric	W. F. and H. Schmoele, jr.	170,402	Nov. 23, 1875	1067	336	8	899
Music-stand	J. Lyons	165,346	July 6, 1875	186	56	8	31
Music-stand, Folding	E. A. White	163,905	June 1, 1875	56	19	7	938
Music-teaching apparatus	J. A. Searritt	162,770	May 4, 1875	33	11	7	751
Musical-game apparatus	E. Draper	164,641	June 22, 1875	767	252	7	1062
Musical instrument, Brass	H. G. Lehnert	158,594	Jan. 12, 1875	232	78	7	56
Musical-instrument insulator	W. R. Miller	158,856	Jan. 19, 1875	484	162	7	107
Musical-instrument key-board	M. H. McChesney	161,806	Apr. 6, 1875	185	63	7	595
Musical-instrument string	J. Farmer and J. B. Hamilton	160,173	Feb. 23, 1875	896	295	7	328
Musical-instrument string	J. B. Hamilton	161,226	Mar. 23, 1875	913	299	7	499
Musical instruments, Mouth-piece for	C. G. Conn	160,164	Feb. 23, 1875	839	293	7	327
Musical merchandise-box	J. Restein	159,218	Jan. 26, 1875	846	277	7	162

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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N.							
Nail:							
See Horseshoe-nail. Shoe-nail.							
Horseshoe ice-nail. Sole-fastening nail.							
Nail.....	A. Marotzki.....	168,037	Sept. 21, 1875	608	195	8	509
Nail-assorting machine.....	J. Coyne.....	159,082	Jan. 26, 1875	723	239	7	145
Nail blanks, Machine for making wrought.....	T. T. Wood.....	163,619	May 25, 1875	869	274	7	891
Nail-cutting machine.....	W. Wickersham.....	167,420	Sept. 7, 1875	38	11	8	411
Nail-driving machine.....	W. S. Watson.....	158,763	Jan. 12, 1875	374	128	7	76
Nail-extractor.....	I. N. Burdick.....	167,740	Sept. 14, 1875	328	105	8	460
Nail-extractor.....	M. D. Converse.....	162,274	Apr. 20, 1875	634	206	7	672
Nail-forging machine.....	S. S. Cutnam.....	161,154	Mar. 23, 1875	848	276	4	490
Nail-forging machine.....	J. Roy.....	169,045	Oct. 19, 1875	698	230			8	678
Nail-forging machines, Feed device for.....	L. A. Dodge.....	166,857	Aug. 17, 1875	653	203	8	309
Nail-heads, Socket for attaching ornamental.....	T. C. Richards.....	166,145	July 27, 1875	1007	310	8	184
Nail-heading machine, Wrought.....	T. T. Wood.....	163,620	May 25, 1875	871	274	7	891
Nail machine, Cut.....	J. T. Westwood.....	159,783	Feb. 16, 1875	529	176	7	270
Nail-plate feeder.....	W. H. Field.....	160,314	Mar. 2, 1875	54	19	7	356
Nail-plate feeder.....	W. H. Field.....	171,005	Dec. 14, 1875	335	111	8	1002
Nail-plate feeder.....	D. W. Keith.....	159,932	Feb. 16, 1875	666	220	7	288
Nail-plate feeder.....	M. Leach.....	170,002	Nov. 16, 1875	675	221			8	888
Nail-plate feeder.....	G. H. Ryan.....	170,118	Nov. 16, 1875	784	249	8	853
Nail-plate feeder.....	L. Soule.....	165,693	July 20, 1875	557	170	8	109
Nail-plate-rolling machine.....	H. Woods.....	166,577	Aug. 10, 1875	376	116	8	260
Nail-rolling machines, Conductor for.....	R. E. Cady.....	165,474	July 13, 1875	346	101	8	63
Nail-separator.....	I. N. Bumbaugh.....	171,213	Dec. 21, 1875	559	184	8	1040
Nails, Making chisel-pointed.....	G. Stacy.....	165,380	July 6, 1875	221	66	8	39
Nails, Manufacture of cut.....	G. Stacy.....	166,821	Aug. 17, 1875	616	191	8	304
Nailing machines, Nail-feed attachment for.....	F. Rochow.....	164,332	June 8, 1875	465	154	7	1004
Napkin-holder.....	W. Clark.....	161,667	Apr. 6, 1875	70	25	7	579
Napkin-holder.....	C. Rowland.....	167,411	Sept. 7, 1875	30	9	8	410
Napped fabric.....	L. W. Whipple.....	164,626	June 15, 1875	739	242	7	1050
Navigator's bearing-indicator.....	J. D. Leach.....	170,001	Nov. 16, 1875	674	212	8	838
Neck-tie.....	A. G. Adams.....	160,806	Mar. 16, 1875	533	172	7	439
Neck-tie.....	A. P. Damon.....	167,507	Sept. 7, 1875	110	34	8	422
Neck-tie.....	J. H. Fleisch.....	162,638	Apr. 27, 1875	984	316	7	724
Neck-tie.....	W. H. Hart.....	159,921	Feb. 16, 1875	655	217	7	287
Neck-tie.....	A. Hellenberg.....	165,577	July 13, 1875	436	132	8	77
Neck-tie.....	O. Kueppers.....	159,272	Feb. 2, 1875	28	9	7	188
Neck-tie.....	A. Landes.....	165,593	July 13, 1875	450	136	8	79
Neck-tie.....	R. R. Parker.....	168,666	Oct. 11, 1875	344	112	8	621
Neck-tie.....	S. Solomon.....	165,625	July 13, 1875	484	147	8	84
Neck-tie.....	G. G. Struhar.....	171,327	Dec. 21, 1875	659	217	8	1053
Neck-tie fastener.....	J. H. Harrington.....	165,488	July 13, 1875	358	105	8	65
Neck-tie fastener.....	J. Wachner.....	170,651	Nov. 30, 1875	1314	415	8	940
Neck-tie fastening.....	E. Berliner.....	161,378	Mar. 30, 1875	1082	350	7	528
Neck-tie holder.....	M. A. Head.....	162,287	Apr. 20, 1875	643	210	7	624
Neck-tie retainer.....	G. Burnham, jr.....	167,300	Aug. 31, 1875	1097	345	8	387
Neck-tie retainer.....	W. H. Hart, jr.....	168,993	Oct. 19, 1875	647	213	8	672
Neck-tie shield.....	O. Kueppers.....	159,422	Feb. 2, 1875	162	55	7	207
Neck-tie shield.....	R. R. Parker.....	160,117	Feb. 23, 1875	850	280	7	321
Neck-tie supporter.....	B. F. Bean.....	160,298	Mar. 2, 1875	36	14	7	354
Needle-blank-swaging machine.....	P. M. Beers.....	165,976	July 27, 1875	842	259	8	160
Needle-blank-trimming machine.....	P. M. Beers.....	166,245	Aug. 3, 1875	55	17			8	207
Needle blanks, Device for turning machine.....	E. Sauter.....	160,238	Feb. 23, 1875	953	313	7	336
Needle-blanks, Machine for beveling the ends of.....	S. C. Kingman.....	160,686	Mar. 9, 1875	394	133	7	414
Needle-book.....	F. Swan.....	160,849	Mar. 16, 1875	564	183	7	443
Needle-case.....	A. Fowler.....	160,414	Mar. 2, 1875	140	49	7	369
Needle-case.....	O. Nanen.....	169,029	Oct. 19, 1875	683	225	8	676
Needle-case.....	W. H. Yeomans.....	162,989	May 4, 1875	240	77	7	779
Needle, Price-tag.....	L. B. Benton.....	162,521	Apr. 27, 1875	889	284	7	712
Needle, Sail-maker's.....	H. M. Jenkins.....	171,620	Dec. 22, 1875	963	311	8	1103
Needle-sharpener.....	T. D. Cashin.....	165,540	July 13, 1875	405	121	8	72
Needle-stamping machine.....	P. M. Beers.....	165,975	July 27, 1875	841	259	8	160
Needle-threader.....	P. E. Lambert.....	170,278	Nov. 23, 1875	954	299	8	883
Needle-wrapper.....	A. K. Phillips.....	166,550	Aug. 10, 1875	354	109	8	257
Needles, Machine for flattening the shanks of machine.....	S. C. Kingman.....	161,240	Mar. 23, 1875	927	302	7	501
Needles, Machine for making cutters for grooving.....	R. Thompson.....	159,863	Feb. 16, 1875	601	199	7	280
Needles, Machine for polishing eyes of.....	P. M. Beers.....	165,977	July 27, 1875	844	260			8	160
Needles, Machine for polishing eyes of.....	P. M. Beers.....	166,246	Aug. 3, 1875	56	18	8	207
Needles, Machine for polishing eyes of machine.....	J. Berry.....	165,532	July 13, 1875	397	119	8	71
Needles, Machine for punching eyes of machine.....	S. C. Kingman.....	162,175	Apr. 20, 1875	543	178	7	661
Needles, Machine for polishing eyes of machine.....	S. C. Kingman.....	163,384	May 18, 1875	635	204	7	853
Nest, Fowl's.....	S. S. and C. R. Jackson.....	168,838	Oct. 19, 1875	506	166	8	652
Nest, Hen's.....	J. P. Clement.....	164,971	June 29, 1875	1089	351	7	1111
Net, Fly.....	L. B. and G. W. Lee.....	163,668	May 25, 1875	907	288	7	896
Net, Landing.....	C. F. Nason.....	167,189	Aug. 31, 1875	1003	312	8	373
Nets, Machine for the manufacture of.....	J. H. Coevoet.....	169,522	Nov. 9, 1875	179	60	8	759
Newspaper heads, Device for changing.....	P. Forsyth.....	159,172	Jan. 26, 1875	801	262	7	156
Nickel-plating, Manufacture of anodes for.....	E. Weston.....	166,433	Aug. 3, 1875	237		8	233
Night-soil and sewage apparatus.....	C. E. Frazier.....	168,473	Oct. 5, 1875	135	46	8	584
Night-soil apparatus.....	R. S. Gillespie.....	168,477	Oct. 5, 1875	139	47	8	585
Night-soil, Apparatus for removal of.....	W. Painter.....	160,701	Mar. 9, 1875	409	137	7	416
Night-soil from tanks to cars, &c., Apparatus for transferring.....	W. Painter.....	162,945	May 4, 1875	193	63	7	772
Night-soil tanks, Discharge-gate for.....	W. Painter.....	160,702	Mar. 9, 1875	411	137	7	416
Night-soil tanks, Measuring-indicator for.....	W. Painter.....	160,703	May 9, 1875	412	137	7	416
Night-soil transit-tank.....	W. Painter.....	163,238	May 11, 1875	481	157	7	817
Nipple, Rubber.....	A. M. Knapp.....	167,613	Sept. 14, 1875	221	69	8	444

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Nitro-glycerine manufacture, Apparatus for recovering acids from the residuum of.	P. Castellanos.....	164,262	June 8, 1875	400	135	7	996
Nitro-glycerine, Manufacture of nitro-sulphuric acid for manufacturing.	P. Castellanos.....	164,260	June 8, 1875	398	.....	7	995
Nitro-glycerine manufacture, Recovering acids from residuum of.	P. Castellanos.....	164,261	June 8, 1875	399	.....	7	995
Nozzle, Can.....	R. T. Bush.....	159,896	Feb. 16, 1875	634	210	7	284
Nozzle, Compound hose-pipe.....	C. L. Jones.....	162,388	Apr. 20, 1875	743	242	7	685
Nozzle for steam-engines, Exhaust.....	H. D. Dunbar.....	164,277	June 8, 1875	415	139	7	998
Nozzle, Hose.....	M. S. Curtis.....	161,763	Apr. 6, 1875	149	51	7	590
Nozzle, Hose.....	I. W. McGaffey.....	170,753	Dec. 7, 1875	91	29	8	962
Nozzle, Hose.....	B. Oyston.....	166,803	Aug. 17, 1875	602	186	8	301
Nozzle, Hose.....	W. Thomson.....	166,654	Aug. 10, 1875	445	138	8	270
Nozzle, Hose.....	J. Toomey.....	170,604	Nov. 30, 1875	1272	401	8	934
Nozzle, Hose.....	C. S. Westland.....	170,138	Nov. 16, 1875	803	254	8	855
Nozzle, Hose-pipe.....	S. Reid.....	170,397	Nov. 23, 1875	1062	334	8	898
Nozzle joint, Hydraulic.....	J. J. Crawford.....	167,505	Sept. 7, 1875	107	34	8	422
Nozzle, Oil-can.....	W. Doe.....	162,223	Apr. 20, 1875	585	192	7	666
Nozzle, Oil-can.....	G. H. Perkins.....	171,164	Dec. 14, 1875	486	160	8	1022
Nozzle, Water-sprinkling.....	C. H. Miller.....	165,111	June 29, 1875	1211	390	7	1128
Nozzles, Stand or holder for hose-pipe.....	O. Edwards.....	169,344	Nov. 2, 1875	19	6	8	737
Numbering, embossing, and inking bonds, &c., Machine for.	L. C. Bodet, J. Masse, and W. Webster.	161,473	Mar. 30, 1875	1166	375	7	539
Numbering machine, Consecutive.....	T. S. Bowman.....	166,681	Aug. 17, 1875	490	150	8	285
Numbering printing-plate.....	T. Richards.....	165,871	July 20, 1875	730	223	8	133
Nursery-chair.....	A. E. Barnes.....	168,960	Oct. 19, 1875	616	205	8	668
Nursery-chair.....	J. F. Downing.....	166,079	July 27, 1875	938	290	8	174
Nursery-chair.....	C. A. Watson.....	162,594	Apr. 27, 1875	950	305	7	720
Nursery-chair seat.....	S. S. Newton.....	166,474	Aug. 10, 1875	294	88	8	248
Nursing apparatus.....	F. F. Marsh and A. F. Thompson.	163,022	May 11, 1875	283	92	7	792
Nut-fastening.....	R. C. Watson.....	168,690	Oct. 11, 1875	361	118	8	624
Nut-lock.....	J. J. Adgate.....	159,136	Jan. 26, 1875	768	253	7	152
Nut-lock.....	J. J. Adgate.....	160,862	Mar. 16, 1875	576	187	7	445
Nut-lock.....	J. B. Atwood.....	168,597	Oct. 11, 1875	281	91	8	611
Nut-lock.....	S. G. and A. Barker.....	168,958	Oct. 19, 1875	614	204	8	668
Nut-lock.....	D. and S. A. Beaton.....	166,957	Aug. 24, 1875	760	235	8	332
Nut-lock.....	S. Brunson.....	162,270	Apr. 20, 1875	631	205	7	672
Nut-lock.....	L. Chapman.....	168,830	Oct. 19, 1875	499	163	8	651
Nut-lock.....	R. Cramer.....	162,036	Apr. 13, 1875	395	133	7	635
Nut-lock.....	C. J. Cummings.....	159,306	Feb. 2, 1875	55	21	7	192
Nut-lock.....	W. C. Gould.....	161,949	Apr. 13, 1875	327	110	7	626
Nut-lock.....	J. J. Gray.....	159,508	Feb. 9, 1875	272	88	7	229
Nut-lock.....	F. C. Hamilton.....	168,483	Oct. 5, 1875	146	49	8	586
Nut-lock.....	A. E. Harris.....	168,156	Sept. 28, 1875	752	237	8	536
Nut-lock.....	H. L. Heaton.....	163,489	May 18, 1875	730	233	7	866
Nut-lock.....	C. Henderson.....	168,489	Oct. 5, 1875	152	50	8	586
Nut-lock.....	C. L. Holland.....	162,167	Apr. 20, 1875	536	176	7	660
Nut-lock.....	C. Holton.....	168,021	Sept. 21, 1875	592	189	8	507
Nut-lock.....	S. T. Hughes.....	161,235	Mar. 23, 1875	922	301	7	500
Nut-lock.....	D. D. Jones.....	165,167	July 6, 1875	19	6	8	11
Nut-lock.....	T. B. Keating and T. G. Bristor..	169,908	Nov. 16, 1875	598	186	8	828
Nut-lock.....	J. M. Kent.....	166,113	July 27, 1875	973	300	8	179
Nut-lock.....	O. B. Latham.....	164,846	June 22, 1875	955	310	7	1087
Nut-lock.....	R. Long.....	169,647	Nov. 9, 1875	327	103	8	785
Nut-lock.....	W. F. Marthens.....	164,747	June 22, 1875	864	281	7	1075
Nut-lock.....	B. J. Noonan.....	159,706	Feb. 9, 1875	439	147	7	253
Nut-lock.....	W. P. Olden.....	164,868	June 22, 1875	979	316	7	1089
Nut-lock.....	J. G. Perry.....	167,469	Sept. 7, 1875	78	24	8	417
Nut-lock.....	C. B. Rager.....	170,015	Nov. 16, 1875	688	216	8	840
Nut-lock.....	J. A. Shoemaker and D. D. Jones	167,944	Sept. 21, 1875	523	167	8	497
Nut-lock.....	B. B. Snyder, jr.....	160,241	Feb. 23, 1875	955	314	7	336
Nut-lock.....	O. T. Welch.....	161,462	Mar. 30, 1875	1155	373	7	538
Nut-lock.....	J. M. Whitmore.....	165,697	July 20, 1875	562	171	8	110
Nut-lock.....	J. C. Wright.....	164,505	June 15, 1875	639	207	7	1035
Nut-lock.....	J. C. Wright.....	167,967	Sept. 21, 1875	540	173	8	499
Nut-lock washer.....	J. Miller, jr.....	158,962	Jan. 19, 1875	589	195	7	120
Nut-lock washers, Punch for making.....	K. H. Loomis.....	171,148	Dec. 14, 1875	471	154	8	1020
Nut-machine.....	P. L. Fitrer.....	159,252	Feb. 2, 1875	10	3	7	186
Nut-machine.....	W. Horsfall.....	160,194	Feb. 23, 1875	912	300	7	330
Nut or collar lock.....	E. Barrowclough.....	159,491	Feb. 9, 1875	249	81	7	227
Nut-tapping machine.....	S. L. Worsley.....	166,490	Aug. 10, 1875	306	92	8	250
Nut, Wrench.....	J. Conway.....	171,353	Dec. 21, 1875	623	225	8	1056
Nuts, Machine for making box.....	A. Marland and W. J. Lewis.....	162,838	May 4, 1875	92	30	7	759
Nuts, Manufacture of hexagonal.....	G. Johnson.....	171,023	Dec. 14, 1875	347	116	8	1004
Nuts, Manufacture of hexagonal.....	A. Marland.....	162,837	May 4, 1875	91	30	7	759
O.							
Oar.....	W. Lyman.....	169,277	Oct. 26, 1875	929	302	8	718
Oar-lock.....	G. H. Hurd.....	167,536	Sept. 7, 1875	139	42	8	426
Oar-lock, Folding.....	A. W. Thornton and M. Vice.....	163,115	May 11, 1875	369	120	7	803
Oatmeal-machine.....	A. J. Ehrlichson.....	170,536	Nov. 30, 1875	1203	379	8	926
Oatmeal-machine.....	W. Heston.....	170,560	Nov. 30, 1875	1228	386	8	929
Oatmeal-machine.....	H. Kruse.....	170,745	Dec. 7, 1875	84	27	8	961
Oats-screen.....	J. N. Bell.....	160,999	Mar. 23, 1875	703	232	7	472
Obstetrical supporter.....	W. E. Stainback.....	161,362	Mar. 30, 1875	1060	345	7	525
Offal-presses, Dumping attachment for.....	T. Webber.....	168,545	Oct. 5, 1875	299	68	8	594
Offal-treating apparatus.....	G. S. Allyn.....	163,565	May 25, 1875	817	259	7	885
Office table and bed combined.....	D. Walker.....	160,801	Mar. 16, 1875	528	171	7	438
Oil and other presses.....	A. Shedlock.....	162,198	Apr. 20, 1875	563	185	7	663
Oil-can.....	J. Askwith.....	166,956	Aug. 24, 1875	760	235	8	332
Oil-can.....	G. K. Haswell.....	164,169	June 8, 1875	315	107	7	984
Oil-can.....	A. O. Kittredge and W. H. and W. J. Clark.	164,378	June 15, 1875	524	172	7	1021
Oil-can.....	E. Knessner and T. Breuer.....	169,109	Oct. 26, 1875	782	254	8	697
Oil-can.....	F. Lehr.....	158,721	Jan. 12, 1875	343	116	7	72

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & C.	Vol.	Page.
Oil-can	N. Peterson	169,576	Nov. 2, 1875	236	78	8	766
Oil-can	T. Roddick	165,257	July 6, 1875	106	31	8	23
Oil-can	A. Wood	162,134	Apr. 13, 1875	487	161	7	646
Oil-can spout	D. G. Dustin	170,718	Dec. 7, 1875	59	18	8	958
Oil-can sink	F. C. Wyckoff	165,399	July 6, 1875	246	74	8	42
Oil-cloth and matting, Binding for	A. and E. A. Underwood	168,943	Oct. 19, 1875	601	199	8	666
Oil-cloth, &c., drying apparatus	A. Wilder	159,876	Feb. 16, 1875	615	203	7	281
Oil-cloth polishing machine	J. Webber, jr.	162,440	Apr. 20, 1875	795	258	7	692
Oil compound and preparing the same, Paint	D. S. Robinson	159,710	Feb. 9, 1875	441		7	254
Oil compound, Paint	D. S. Robinson	167,622	Sept. 14, 1875	227		8	445
Oil, Compound resembling linseed	A. Rieder	168,108	Sept. 28, 1875	702		8	529
Oil-cup	J. Graham	167,332	Aug. 31, 1875	1125	353	8	391
Oil-cup	J. G. Hallas and W. N. Weeden	161,783	Apr. 6, 1875	165	57	7	593
Oil, Meal-molders in the manufacture of linseed	A. Judson	162,826	May 4, 1875	82	27	7	758
Oil motor, Coal	F. Bürger	170,813	Dec. 7, 1875	142	47	8	969
Oil-press	C. L. Morehouse	170,488	Nov. 30, 1875	1160	366	8	920
Oil-pressing mat	T. M. Murphy	170,886	Dec. 7, 1875	203	70	8	978
Oil-reducing apparatus, Crude	W. C. Parker	169,189	Oct. 26, 1875	847	276	8	708
Oil-reservoir, Safety	T. Scantlin	168,676	Oct. 11, 1875	351	115	8	622
Oil safety-tank	J. H. Hayward	160,520	Mar. 9, 1875	251	86	7	393
Oil-tank can	H. E. Wolcott	163,289	May 11, 1875	533	172	7	824
Oil-tank extinguisher	R. Dittrich	165,078	June 29, 1875	1181	380	7	1123
Oil, Tank for retailing coal	J. H. Boardman	163,140	May 11, 1875	391	126	7	806
Oil-tanks, Man-hole cover for	W. H. Anderson	170,697	Dec. 7, 1875	40	12	8	956
Oil-tanks, Man-hole for	W. H. Anderson	166,446	Aug. 10, 1875	270	81	8	245
Oils, Method and apparatus for burning	E. E. Rice	168,782	Oct. 11, 1875	445	145	8	635
Oils, Process for manufacturing lubricating	T. J. Gordon and D. H. Bumpus	162,377	Apr. 20, 1875	735		7	684
Oils, Refining	A. T. Schmidt	164,694	June 22, 1875	815		7	1069
Oils, Storage and delivery tank for explosive and inflammable	P. and G. R. F. Sinibaldi	163,538	May 18, 1875	779	247	7	872
Oils, Treating	V. G. Bloede	159,887	Feb. 16, 1875	627	208	7	283
Oiler	H. E. Bohm, H. Stuhr, and P. J. Joecken	164,962	June 29, 1875	1083	349	7	1110
Oiler	G. F. Dutton	165,987	July 27, 1875	853	263	8	162
Oiler	I. Levy	161,693	Apr. 6, 1875	89	31	7	582
Oiler	S. S. Newton	169,187	Oct. 26, 1875	846	276	8	708
Oiler	R. B. Perkins	164,589	June 15, 1875	710	231	7	1046
Oiler, Crank-wrist	C. Kurth	168,163	Sept. 28, 1875	759	240	8	537
Oiler, Machine	S. Hutchinson, jr.	164,090	June 8, 1875	244	84	7	975
Oiler, Machinist's	O. J. Backus	171,339	Dec. 21, 1875	670	221	8	1054
Oiling apparatus spindle	C. B. Buttrick and T. B. Flanders	167,823	Sept. 21, 1875	422	134	8	481
Oiling spindles, Apparatus for	C. G. Buttrick and T. B. Flanders	159,499	Feb. 9, 1875	256	83	7	228
Ointment	J. B. and S. W. Brown	169,949	Nov. 16, 1875	634		8	832
Oleaginous matter from textile material, Apparatus for extracting	R. Scaife	160,550	Mar. 9, 1875	277	94	7	397
Opera-chair	G. W. Borel	160,641	Mar. 9, 1875	355	120	7	409
Opera-chair	I. Chase and G. M. Ball	168,874	Oct. 19, 1875	536	176	8	656
Opera chair	J. Richardson	162,951	May 4, 1875	199	65	7	773
Opera-chair	W. A. Slaymaker	168,351	Oct. 5, 1875	28	11	8	569
Ordnance	J. G. Butler	163,149	May 11, 1875	400	129	7	807
Ordnance, Breech-loading	D. Davison	162,807	May 4, 1875	67	21	7	756
Ordnance, Breech-loading	G. H. Felt	159,170	Jan. 26, 1875	799	261	7	156
Ordnance, Breech-loading	G. P. Harding	168,990	Oct. 19, 1875	644	213	8	672
Ordnance, Breech-loading	B. B. Hotchkiss	160,434	Mar. 2, 1875	158	55	7	371
Ordnance, Breech-loading	N. E. Johnson	160,101	Feb. 23, 1875	836	275	7	319
Ordnance, Breech-loading	P. B. Lawson	164,568	June 15, 1875	692	224	7	1043
Ordnance, Breech-loading	E. Schultz	168,346	Oct. 5, 1875	24	9, 10	8	568
Ordnance, Breech-loading	B. C. Watson	161,308	Mar. 23, 1875	994	325	7	509
Ordnance, Construction of	R. R. Moffatt	159,834	Feb. 16, 1875	574	191	7	276
Ordnance gas-check	L. W. Broadwell	167,981	Sept. 21, 1875	550	177	8	501
Ordnance, Means of mounting and operating	B. B. Hotchkiss	161,037	Mar. 23, 1875	737	242	7	476
Ordnance shell	G. E. Walker	168,813	Oct. 11, 1875	472	153	8	639
Ore and stone crusher	J. E. Blake	166,664	July 27, 1875	923	285	8	171
Ore-concentrator	J. Longmaid	170,751	Dec. 7, 1875	89	29	8	962
Ore-concentrator	C. Moore and C. H. Campfield	159,110	Jan. 26, 1875	748	246	7	149
Ore-concentrator	J. V. Pomeroy	163,104	May 11, 1875	360	117	7	802
Ore-concentrator	J. V. Pomeroy	170,642	Nov. 30, 1875	1307	413	8	939
Ore-concentrator	J. Vincent, sr.	161,460	Mar. 30, 1875	1153	372	7	538
Ore-concentrator	G. W. White	165,462	July 13, 1875	336	98	8	61
Ore-crusher	G. E. Noyes	162,301	Apr. 20, 1875	657	214	7	675
Ore-crusher	D. Trumbull, jr.	161,456	Mar. 30, 1875	1150	371	7	537
Ore crusher and amalgamator	C. Braids	167,638	Sept. 14, 1875	242	75	8	447
Ore crusher, Wet and dry	H. Bolthoff	166,743	Aug. 17, 1875	551	169	8	294
Ore-crushing machine	S. R. Krom	158,800	Jan. 19, 1875	434	145	7	100
Ore-feeder	C. P. Stanford	167,625	Sept. 14, 1875	230	72	8	445
Ore-feeder	J. Tullock	160,628	Mar. 9, 1875	343	116	7	407
Ore-jigger	A. Stroh	171,189	Dec. 14, 1875	505	167	8	1025
Ore-roasting furnace	J. H. Clark	160,649	Mar. 9, 1875	361	122	7	410
Ore-roasting furnace	H. G. Livermore	169,713	Nov. 9, 1875	394	124	8	794
Ore-roasting furnace	W. McCall	170,095	Nov. 16, 1875	765	242	8	850
Ore-separator	W. J. Evans	162,809	May 4, 1875	69	22	7	756
Ore-separator	T. B. McConaughy	161,697	Apr. 6, 1875	92	32	7	582
Ore-separator	D. Nevin	159,347	Feb. 2, 1875	97	34	7	197
Ore-separator	P. Osterspey	170,890	Dec. 7, 1875	206	72	8	978
Ore-separator	C. W. Reily	168,416	Oct. 5, 1875	7	30	8	577
Ore-separator	B. Tyson	160,041	Feb. 23, 1875	785	259	7	311
Ore-sizing machine	D. Nevin	167,191	Aug. 31, 1875	1006	313	8	373
Ore-washer	A. Allain and A. R. Dejean	170,978	Dec. 14, 1875	310	103	8	999
Ore-washer	L. D. Stephens	167,133	Aug. 24, 1875	928	289	8	356
Ores, Method and apparatus for classifying	R. M. Wengler	170,422	Nov. 23, 1875	1084	341	8	901
Ores, Process for treating	H. H. Eames and A. Patchen	170,535	Nov. 30, 1875	1202		8	926
Organ, &c.	B. Dufner	168,561	Oct. 11, 1875	244	80	8	606
Organ action, Reed	P. J. O'Neill	161,894	Apr. 13, 1875	279	94	7	620
Organ attachment, Reed	J. R. Lomas	160,448	Mar. 2, 1875	174	60	7	373

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Organ attachment, Reed	H. R. Moore	163,682	May 25, 1875	918	292	7	898
Organ attachment, Reed	H. R. Moore	171,527	Dec. 28, 1875	863	282	8	1089
Organ attachment, Reed	A. Schoenhut	166,635	Aug. 10, 1875	431	133	8	262
Organ-bellows, Apparatus for operating	G. Beach	168,212	Sept. 28, 1875	798	254	8	542
Organ-case	J. R. Lomas	160,213	Feb. 23, 1875	931	305	7	332
Organ case, Reed	J. Bates	160,997	Mar. 23, 1875	702	231	7	471
Organ-coupler	J. R. Perry	168,778	Oct. 11, 1875	441	143	8	635
Organ-key blank	L. K. Fuller	162,467	Apr. 27, 1875	841	271	7	706
Organ-key board	L. K. Fuller	160,515	Mar. 9, 1875	247	85	7	392
Organ, &c., pedal attachment	R. Burdett	160,257	Mar. 2, 1875	4	2	7	349
Organ pneumatic action	R. Neicholls	159,705	Feb. 9, 1875	438	147	7	253
Organ pneumatic action	T. Winans	162,450	Apr. 20, 1875	803	261	7	693
Organ, Reed	N. S. Bach and M. P. Berg	164,900	June 29, 1875	1027	331	7	1103
Organ, Reed	G. Blatchford	169,945	Nov. 16, 1875	632	196	8	832
Organ, Reed	L. K. Fuller	160,052	Feb. 23, 1875	794	262	7	313
Organ, Reed	H. N. Goodman	170,078	Nov. 16, 1875	750	237	8	848
Organ, Reed	J. R. Lomas	161,134	Mar. 23, 1875	832	272	7	488
Organ, Reed	J. E. Norton	164,472	June 15, 1875	612	198	7	1032
Organ, Reed	H. K. White	166,437	Aug. 3, 1875	240	73	8	233
Organ reed-board	J. R. Lomas	159,590	Feb. 9, 1875	336	111	7	239
Organ reed-board	W. W. Walker	163,121	May 11, 1875	373	121	7	804
Organ-stop action	F. M. Brush	160,568	Mar. 9, 1875	292	99	7	399
Organ-stop action	J. F. McMahon and S. Tracy	166,214	Aug. 3, 1875	27	9	8	203
Organ-stop action, Reed	L. B. Norton	166,292	Aug. 3, 1875	99	31	8	213
Organ-stop knob	R. Burdett	164,518	June 15, 1875	649	210	7	1037
Organ-tremolo	W. D. Parker	164,871	June 22, 1875	982	317	7	1089
Organ tremolo, Reed	L. K. Fuller	160,316	Mar. 2, 1875	56	20	7	356
Organ tremolo, Reed	J. R. Lomas	160,605	Mar. 9, 1875	325	110	7	404
Organ-valve	G. V. Nordstrom and G. S. Hutchings	164,585	June 15, 1875	706	230	7	1045
Organs, &c., Manufacture of key-boards for	M. Pratt	165,024	June 29, 1875	1132	365	7	1117
Organs, &c., Octave-coupler for	S. J. Crockett	169,089	Oct. 26, 1875	764	248	8	695
Organs, Tremolo for reed	R. W. Pain	164,869	June 22, 1875	980	317	7	1089
Ornament, &c., holder	W. J. Garvey	159,813	Feb. 16, 1875	558	185	7	274
Ornament, Personal	F. C. Kiergard	160,828	Mar. 16, 1875	550	178	7	441
Ornaments, Composition for	J. G. W. Steffens	169,053	Oct. 19, 1875	706	230	8	680
Ornamental transfer-sheets	O. J. E. Palm	160,224	Feb. 23, 1875	941	309	7	334
Ornamenting and marking wheel	F. Tuchfarber	168,115	Sept. 28, 1875	707	324	8	529
Oscillating engine	J. Hall	163,186	May 11, 1875	435	141	7	811
Oscillating engine	G. W. Heald	158,938	Jan. 19, 1875	565	187	7	117
Oscillating engine	G. G. Lobdell	160,447	Mar. 2, 1875	173	59	7	373
Oscillating engine	J. Wolf	166,672	Aug. 10, 1875	463	142	8	272
Ottoman, Piano and organ	J. Miller	168,661	Oct. 11, 1875	341	111	8	621
Oval-cutting machine	J. E. and C. E. Howard	167,534	Sept. 7, 1875	137	42	8	425
Oven, Baker's	J. Bieder	169,404	Nov. 2, 1875	78	24	8	745
Oven, Baker's	A. Crumie and D. Donald	158,916	Jan. 19, 1875	545	181	7	114
Oven, Baker's	J. Hall	160,424	Mar. 2, 1875	149	52, 53	7	370
Oven, Coke	H. Aitken	169,756	Nov. 9, 1875	437	139	8	800
Oven, Coke	E. S. Gobiet	171,371	Dec. 21, 1875	698	230	8	1059
Oven, Coke	L. Schantl	163,333	May 18, 1875	592	190	7	848
Oven, Desulphurizing	J. C. Brewster	159,384	Feb. 2, 1875	127	44	7	202
Oven, Furnace of baker's	A. Crumie and D. Donald	161,489	Mar. 30, 1875	1189	381	7	512
Oven, Portable steam	J. H. Lockwood	159,427	Feb. 2, 1875	167	57	7	207
Oven, Pottery-firing	T. W. Minton	165,855	July 20, 1875	718	218	8	131
Overalls	S. Deutsch	163,751	May 25, 1875	978	310	7	906
Overalls	G. R. Eager	167,315	Aug. 31, 1875	1109	349	8	389
Overalls	G. R. Eager	167,316	Aug. 31, 1875	1110	349	8	389
Overalls	G. R. Eager	167,317	Aug. 31, 1875	1111	349	8	389
Overalls	G. R. Eager	167,318	Aug. 31, 1875	1112	350	8	389
Overalls	G. R. Eager	167,319	Aug. 31, 1875	1113	350	8	389
Overalls	G. R. Eager	167,320	Aug. 31, 1875	1114	350	8	389
Overalls	G. R. Eager	167,321	Aug. 31, 1875	1114	350	8	389
Overalls	S. R. Krouse	162,830	May 4, 1875	85	28	7	758
Overalls	J. Moore	160,537	Mar. 9, 1875	267	91	7	396
Overcoat	A. R. Underdown	167,139	Aug. 24, 1875	936	291	8	357
Ox-bow pin	W. Varnum	162,780	May 4, 1875	41	13	7	752
Oxshoe	J. E. Davis	158,473	Jan. 5, 1875	108	36	7	24
Oxshoe	R. French	159,026	Jan. 26, 1875	675	220	7	138
Oxshoe-making machine	J. Hall	161,782	Apr. 6, 1875	164	56	7	593
Oyster-knife	C. W. Berger	162,606	Apr. 27, 1875	959	308	7	721
Oyster knife and nippers, Combined	R. F. Meggie	159,598	Feb. 9, 1875	342	113	7	240
Ozone-machine	G. Milsom	163,391	May 18, 1875	643	206	7	854
P.							
Package-holder	G. Lewinson	163,935	June 1, 1875	81	27	7	942
Package-strap handle	S. L. Harrell	164,934	June 29, 1875	1108	357	7	1113
Packages, Sling for elevating	G. D. Stevens	158,996	Jan. 19, 1875	623	206	7	124
Packer, Oil-well	W. L. Hardison	171,616	Dec. 28, 1875	958	310	8	1102
Packer, Oil-well	L. Stewart	171,589	Dec. 28, 1875	919	301	8	1097
Packing and showing box	F. S. Kinney	162,827	May 4, 1875	83	28	7	758
Packing-box	H. N. Hart	166,774	Aug. 17, 1875	576	177	8	297
Packing box and crate	H. M. Simons	169,303	Oct. 26, 1875	955	309	8	722
Packing box, Fruit and egg	J. A. Miller	170,685	Dec. 7, 1875	29	9	8	954
Packing, Drive-well	V. F. Thomacich	169,598	Nov. 2, 1875	259	83	8	769
Packing for piston-rods of steam-engines, &c., Metallic	J. A. Fulton	164,158	June 8, 1875	302	103	7	983
Packing for pistons of hydraulic engines	S. Hughes and M. Kelly	159,326	Feb. 2, 1875	82	27	7	195
Packing for pistons, Steam	C. L. Easman	163,584	May 25, 1875	836	264	7	887
Packing for stuffing-boxes	R. Greenalch	167,238	Aug. 31, 1875	1046	325	8	379
Packing for stuffing-boxes	A. P. Lauterman	167,104	Aug. 24, 1875	903	282	8	352
Packing, Hydraulic	J. E. Taylor	166,731	Mar. 9, 1875	437	145	7	420
Packing material	H. J. Halbert and F. Kimp	161,224	Mar. 23, 1875	912	291	7	499

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Packing, Oil-well	J. L. Hoffman	170,563	Nov. 30, 1875	1230	387	8	929
Packing, Piston	J. Bole	158,895	Jan. 19, 1875	523	175	7	112
Packing, Piston	J. W. Hill	159,675	Feb. 9, 1875	411	136	7	249
Packing, Piston	C. R. James	169,174	Oct. 26, 1875	837	272	8	706
Packing, Piston	G. H. Reynolds	169,586	Nov. 2, 1875	246	81	8	767
Packing, Piston	J. Richards	167,023	Aug. 24, 1875	825	257	8	341
Packing, Piston	J. H. Rollins	162,693	Apr. 27, 1875	1044	333	7	732
Packing, Piston	J. L. Sherman	161,710	Apr. 6, 1875	100	36	7	583
Packing piston-connection, Self.	G. W. Burr	167,064	Aug. 24, 1875	864	269	8	347
Pad:							
See Bosom-pad.	Harness-pad.						
Coach-pad.	Horse-interfering pad.						
Collar-pad.	Truss-pad.						
Copying-press pad.							
Pad and collar fastener, Combined	A. Racine	168,781	Oct. 11, 1875	444	145	8	635
Paddle-wheel	J. Salter	165,029	June 29, 1875	1136	367	7	1117
Paddle-wheel, Feathering	P. Gregersen	169,690	Nov. 9, 1875	374	117	8	791
Paddle-wheel, Feathering	C. A. Lamphere	162,756	May 4, 1875	18	7	7	749
Paddle-wheel, Feathering	J. S. Morgan	158,509	Jan. 5, 1875	140	47	7	28
Paddle-wheel, Feathering	B. Vater	159,127	Jan. 26, 1875	761	251	7	151
Padlock	W. H. Andrews	166,838	Aug. 17, 1875	631	196	8	306
Padlock	G. R. Cutbirth	171,471	Dec. 28, 1875	805	265	8	1081
Padlock	H. S. Lockwood	165,741	July 20, 1875	598	184	8	116
Padlock	W. Raether	168,669	Oct. 11, 1875	346	113	8	622
Padlock, &c	J. Schade	159,772	Feb. 16, 1875	519	173	7	269
Padlock	B. Wallmann	169,211	Oct. 26, 1875	863	281	8	710
Padlock, Combination	M. B. Brooks	163,147	May 11, 1875	397	128	7	806
Padlock, Combination	D. A. Root	162,952	May 4, 1875	201	65	7	773
Page-indicator for books	E. Harris	168,395	Oct. 5, 1875	68	24	8	574
Paging and numbering machine	W. Von Doehn	166,952	Aug. 24, 1875	754	234	8	332
Pail	O. S. Camp	159,792	Feb. 16, 1875	538	179	7	271
Pail and lamp, Dinner	G. W. Aldrich	161,921	Apr. 13, 1875	306	102	7	623
Pail, Housemaid's	E. C. Wooster	160,500	Mar. 2, 1875	223	76	7	381
Pail, Lunch	H. W. Schussler	170,903	Dec. 7, 1875	218	75	8	980
Pail, Milk	J. Amole	170,504	Nov. 30, 1875	1175	371	8	922
Pail, Milking	A. M. Bailey	170,463	Nov. 30, 1875	1138	358	8	917
Pail, Sectional dinner	C. H. Amana	158,616	Jan. 12, 1875	251	84, 85	7	59
Pails, &c., Metallic lip for wooden	S. D. Kirtley	159,935	Feb. 16, 1875	668	222	7	289
Paint-breamer	J. P. Hayes	169,439	Nov. 2, 1875	108	34	8	750
Paint-can	M. Bray	170,703	Dec. 7, 1875	46	13	8	957
Paint-can	J. F. Drummond	168,061	Sept. 21, 1875	568	183	8	504
Paint, Can for mixing	W. W. Thayer	160,852	Mar. 16, 1875	566	184	7	444
Paint composition	C. C. Bemis	169,887	Nov. 16, 1875	582		8	825
Paint compound	A. T. Lyon	164,314	June 8, 1875	450		7	1002
Paint compound	A. T. Lyon	164,851	June 22, 1875	959		7	1087
Paint compound	I. L. Merrell	164,469	June 15, 1875	609		7	1032
Paint-drier	O. Russell	165,761	July 20, 1875	615		8	118
Paint-exhibitor, Revolving	T. C. Van Arsdale	164,114	June 8, 1875	266	91	7	978
Paint, Fire-proof	J. Dewitt	170,533	Nov. 30, 1875	1200		8	926
Paint, Gas-burner for removing	S. G. Reed	164,213	June 8, 1875	350	120	7	959
Paint, Gloss compound for	J. B. Tascott	160,038	Feb. 23, 1875	782		7	311
Paint, Mineral	J. L. Sneed and J. E. Kirtley	163,273	May 11, 1875	515		7	821
Paint-package	J. T. Hunt	159,680	Feb. 9, 1875	416	138	7	250
Painter's jack, Carriage	G. A. Brice	169,082	Oct. 26, 1875	752	245	8	694
Painter's use, Breamer for	I. Hayes	164,996	June 29, 1875	1110	358	7	1113
Painting and banner	G. Frope	161,499	Mar. 30, 1875	1199	384	7	543
Painting cloth, Machine for	H. H. Phillips	167,783	Sept. 14, 1875	373	119	8	466
Painting-machine	W. W. Marsh	163,598	May 25, 1875	850	268	7	889
Painting with soluble silicates, Base for colors in	W. C. A. Thielepape and H. Kroeschell	163,898	June 1, 1875	51		7	937
Palate, Artificial	J. Peyer	164,591	June 15, 1875	711	231	7	1046
Pan:							
See Ash-pan.	Evaporating-pan.						
Bake-pan.	Frying-pan.						
Baking-pan.	Grinding and amalga-						
Cake-pan.	mating pan.						
Cooking-pan.	Locomotive ash-pan.						
Drip-pan.	Turpentine-pan.						
Dust-pan.	Water-closet pan.						
Pan	J. C. Milligan	168,662	Oct. 11, 1875	342	111	8	621
Pan-forming machine	G. A. Bowers	160,747	Mar. 16, 1875	470	154	7	432
Pan-forming machine	W. Chalmers	164,520	June 15, 1875	650	210 } 211 } 153 } 154 }	7 } 8 }	1037 } 806 }
Panel-raising machine	F. D. Green	169,803	Nov. 9, 1875	488		8	
Pannier or bustle	R. Biering	170,807	Dec. 7, 1875	138	46	8	969
Pantaloon, Apparatus for shaping	J. Kraft	163,666	May 25, 1875	906	288	7	896
Pantaloon, Apparatus for shaping	E. B. Viets	162,977	May 4, 1875	127	73	7	777
Pantaloon, Apparatus for shaping	E. B. Viets and C. B. Shaw	163,617	May 25, 1875	868	273	7	891
Pantaloon-block	J. McCurdy	162,843	May 4, 1875	97	32	7	760
Pantaloon-bottoms, Stay for	S. D. Mills	159,343	Feb. 2, 1875	95	33	7	197
Pantaloon-former	C. Franke	167,393	Sept. 7, 1875	13	4	8	408
Pantaloon-shaper	R. M. Eastman	161,495	Mar. 30, 1875	1195	383	7	543
Pantaloon-stretcher	J. D. Ryan	160,619	Mar. 9, 1875	337	113	7	406
Paper and cloth, Machinery for uniting	C. H. Denison	163,582	May 25, 1875	833	263	7	887
Paper bag	C. Amazeen	160,991	Mar. 23, 1875	696	229	7	471
Paper bag	C. Amazeen	169,399	Nov. 2, 1875	75	22	8	745
Paper bag	A. S. Dennison	168,461	Oct. 5, 1875	125	43	8	583
Paper bag	T. W. Grinter	159,029	Jan. 26, 1875	677	221	7	138
Paper bag	E. Langgesser	164,462	June 15, 1875	604	195	7	1031
Paper bag	E. Mill	164,389	June 15, 1875	534	175	7	1022
Paper bag	W. Oesterlein	166,028	July 27, 1875	891	275	8	167
Paper bag for brooms	E. D. Messinger	169,464	Nov. 2, 1875	130	41	8	753
Paper-bag holder	G. H. Cleveland	167,434	Sept. 7, 1875	51	15	8	413

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Paper-bag machine	A. B. Glover and D. M. Church ..	164, 162	June 8, 1875	305	{ 104 105	7	983
Paper-bag machine	T. W. Grinter	159, 030	Jan. 26, 1875	678	{ 221 222	7	139
Paper-bag machine	T. W. Grinter	164, 548	June 15, 1875	674	{ 218 219	7	1040
Paper-bag machine	J. Hatfield	165, 823	July 20, 1875	685	{ 209 210	8	127
Paper-bag machine	J. Hatfield	166, 988	Aug. 24, 1875	792	{ 244 245 246 247	8	337
Paper-bag machine	C. H. Kellogg	158, 945	Jan. 19, 1875	570	189	7	117
Paper-bag machine	C. H. Kellogg	159, 582	Feb. 9, 1875	329	{ 108 109	7	238
Paper-bag machine	W. Liddell	160, 446	Mar. 2, 1875	169	55, 59	7	372
Paper-bag machine	H. S. Merrill	160, 782	Mar. 16, 1875	510	{ 165 166	7	436
Paper-bag machine	C. B. Stilwell	165, 381	July 6, 1875	222	{ 66 67 68	8	39
Paper-bag machine	C. Van Hoosen	165, 390	July 6, 1875	234	71, 72	8	40
Paper-bag machine	W. Webster	161, 720	Apr. 6, 1875	109	39	7	585
Paper barrel	N. Keely	162, 237	Apr. 20, 1875	601	197	7	668
Paper barrel	J. L. Thomson	161, 075	Mar. 23, 1875	770	254	7	481
Paper-barrel-making machine	M. D. Keeney	163, 319	May 18, 1875	577	185	7	846
Paper-barrels, Centrifugal machine for making	W. G. Pennypacker	164, 761	June 22, 1875	875	285	7	1077
Paper bosom	E. P. Furlong	161, 403	Mar. 30, 1875	1104	357	7	531
Paper box	C. M. Arthur and J. Bentley	163, 435	May 18, 1875	679	216	7	859
Paper box	J. P. Buckingham	169, 653	Nov. 16, 1875	637	198	8	832
Paper box	S. B. Conover	170, 991	Dec. 14, 1875	323	107	8	1001
Paper box	E. W. Dennison	170, 664	Dec. 7, 1875	9	3	8	952
Paper box	D. L. Hawkins	169, 992	Nov. 16, 1875	668	209	8	837
Paper box	J. F. Jones	159, 269	Feb. 2, 1875	26	9	7	188
Paper box	J. F. Jones	159, 270	Feb. 2, 1875	26	9	7	188
Paper box	L. A. Kettle	159, 684	Feb. 9, 1875	419	139	7	250
Paper box	L. A. Kettle	164, 005	June 1, 1875	138	49	7	950
Paper box	L. A. Kettle	164, 742	June 22, 1875	860	279	7	1074
Paper box	J. L. Moore	164, 099	June 8, 1875	253	87	7	976
Paper box	D. K. Osbourn	170, 639	Nov. 30, 1875	1305	412	8	939
Paper box	F. Salomon	169, 484	Nov. 2, 1875	147	47	8	755
Paper box	E. D. Shelton	160, 239	Feb. 23, 1875	954	313	7	336
Paper box	E. D. Shelton	164, 601	June 15, 1875	719	234	7	1047
Paper box	J. W. Turner	162, 508	Apr. 27, 1875	879	281	7	711
Paper box	J. R. Van Vechten	165, 137	June 29, 1875	1233	397	7	1130
Paper box	W. Wallach	162, 509	Apr. 27, 1875	880	281	7	711
Paper box	C. A. Young	167, 723	Sept. 14, 1875	313	100	8	458
Paper-box machine	R. Grimm	171, 476	Dec. 28, 1875	810	267	8	1082
Paper-box machine	G. L. Turney	167, 807	Sept. 14, 1875	397	127	8	470
Paper-box machine	J. E. Williams	170, 039	Nov. 16, 1875	706	224	8	842
Paper-box machines, Feeding mechanism for	E. B. Beecher	162, 341	Apr. 29, 1875	694	{ 225 226	7	680
Paper boxes, Blank for corrugated	A. L. Jones	163, 379	May 18, 1875	631	202	7	853
Paper boxes, Manufacture of	J. E. Jeffrey	170, 088	Nov. 16, 1875	760	240	8	849
Paper braid	J. W. Partridge	171, 312	Dec. 21, 1875	647	212	8	1051
Paper-calendering rolls, Operating	N. H. Whitten	162, 260	Apr. 20, 1875	621	203	7	671
Paper can	E. T. Covell	162, 902	May 4, 1875	151	49	7	767
Paper, Carbon	A. B. Simonds	167, 361	Aug. 31, 1875	1151	362	8	394
Paper cigar-box	G. A. Beidler	162, 342	Apr. 20, 1875	695	226	7	680
Paper-clip	W. H. Pack and J. S. Vanhorn ..	164, 657	June 22, 1875	782	256	7	1064
Paper-clip	W. V. Perry	160, 949	Mar. 16, 1875	652	213	7	455
Paper-clip	C. E. Ramus	165, 614	July 13, 1875	471	144	8	82
Paper collar	E. F. Bradford	170, 336	Nov. 23, 1875	1006	316	8	890
Paper collar and cuff machine	E. Wilder	167, 484	Sept. 7, 1875	88	28	8	419
Paper-collar blanks, Knife for cutting	A. Dewes	171, 270	Dec. 21, 1875	614	200	8	1047
Paper-collar-cutting machine	C. A. Brown	169, 408	Nov. 2, 1875	81	25	8	746
Paper-collar cutting-machine	H. J. Medbery	171, 524	Dec. 28, 1875	860	{ 281 282	8	1088
Paper-collar machine	C. H. Denison	165, 803	July 20, 1875	660	202	8	124
Paper collars and cuffs, Machine for cutting	C. H. Denison	167, 156	Aug. 31, 1875	976	304	8	370
Paper, Composition for filling the fibers of	G. H. Goodwin and G. W. Seaverns.	161, 778	Apr. 6, 1875	160	.....	7	592
Paper cop-tube	J. McCausland	171, 577	Dec. 28, 1875	908	297	8	1096
Paper cutter and perforator	W. Daniels	167, 308	Aug. 31, 1875	1103	347	8	388
Paper-cutter, Rotary	G. G. Biedinger	162, 607	Apr. 27, 1875	959	308	7	721
Paper-cutter, Rotary	A. Judson	164, 920	June 29, 1875	1045	337	7	1105
Paper-cutter, Rotary	F. R. Woodward	166, 954	Aug. 24, 1875	758	235	8	332
Paper cutting and delivering machine, Printed	W. Scott	164, 695	June 22, 1875	816	267	7	1069
Paper-cutting machine	W. I. Reid	164, 660	June 22, 1875	784	257	7	1064
Paper-cutting machine	S. W. Soule	158, 812	Jan. 19, 1875	445	148	7	102
Paper-cutting machine, Roll	L. P. Cohen and I. Frank	167, 645	Sept. 14, 1875	248	77	8	448
Paper-cylinders, Apparatus for drying	J. F. Jones	158, 640	Jan. 12, 1875	271	91	7	62
Paper-dampening machine	W. Bullock	171, 093	Dec. 14, 1875	412	137	8	1013
Paper-dampening machine	J. L. Firm	168, 978	Oct. 19, 1875	634	210	8	670
Paper-dampening machine	C. Kahler	165, 238	July 6, 1875	89	26	8	21
Paper, &c., Device for protecting the ends of rolls of	J. L. Firm	160, 175	Feb. 23, 1875	897	296	7	328
Paper doll	W. H. Hart, jr.	163, 866	June 1, 1875	27	9	7	934
Paper-drier	J. Hatch and G. Smith	160, 824	Mar. 16, 1875	546	177	7	441
Paper-drying machine	C. S. Clark	170, 712	Dec. 7, 1875	54	16	8	958
Paper-fastener	J. M. Blanchard	168, 709	Oct. 11, 1875	380	124	8	626
Paper-fastener	G. W. McGill	162, 182	Apr. 20, 1875	550	180	7	662
Paper-fastener	W. H. Pack and J. S. Vanhorn ..	170, 294	Nov. 23, 1875	968	303	8	885
Paper-fastener and card-suspender	G. K. Snow	168, 536	Oct. 5, 1875	200	66	8	592
Paper-fastener, Metallic	G. W. McGill	162, 183	Apr. 20, 1875	550	180	7	662
Paper-fastener, Metallic endless	J. W. McGill	170, 009	Nov. 16, 1875	683	214	8	839

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Paper-feeder, Pneumatic	S. Schofield	160,721	Mar. 9, 1875	428	{ 142 143 }	7	419
Paper-feeding apparatus	C. A. Maxfield	162,840	May 4, 1875	94	31	7	759
Paper-feeding machine	D. Colbock	162,352	Apr. 20, 1875	705	229	7	681
Paper-feeding machine	S. Schofield and C. E. Baker	164,488	June 15, 1875	625	202	7	1034
Paper, Figured writing	G. La Monte and J. H. Hall	159,516	Feb. 9, 1875	281	.....	8	230
Paper-folding machine	W. Daniels	164,977	June 29, 1875	1094	353	7	1111
Paper-folding machine	W. and C. Daniels	164,978	June 29, 1875	1095	353	7	1111
Paper-folding machine, Rotary	S. D. Tucker	171,196	Dec. 14, 1875	514	{ 169 170 171 }	8	1026
Paper-hanger's table	J. Orgill	167,924	Sept. 21, 1875	507	162	8	494
Paper-hanging machine	R. H. Miner	168,339	Oct. 5, 1875	19	8	8	567
Paper hat-binding	D. Sheplie	161,067	Mar. 23, 1875	761	251	7	480
Paper-machine	C. L. Crum	164,814	June 22, 1875	928	300	7	1083
Paper, Machine for folding, covering, and pasting	C. Chambers, jr	164,904	June 29, 1875	1031	{ 332 333 }	7	1103
Paper, Machine for water-marking	M. Mathews	166,122	July 27, 1875	983	303	8	180
Paper, Machine for wetting printing	G. Rosquist	162,499	Apr. 27, 1875	872	279	7	710
Paper-machine-stuff regulator	J. W. Husted	168,746	Oct. 11, 1875	414	135	8	631
Paper-making machine	J. Butler	158,400	Jan. 5, 1875	43	15	7	15
Paper-making machines, Cylinder for	R. McMurray	164,468	June 15, 1875	609	197	7	1031
Paper-making machines, Cylinder for	S. Sellers	167,574	Sept. 7, 1875	171	54	8	430
Paper, Ornamenting dry	G. La Monte and J. H. Hall	171,026	Dec. 14, 1875	349	116	8	1004
Paper-perforating machine	W. Braidswood	170,337	Nov. 23, 1875	1006	316	8	891
Paper-perforating machine	L. Francis	164,289	June 8, 1875	426	142	7	999
Paper-perforating machine	R. Hemingray	160,016	Feb. 23, 1875	764	253	7	309
Paper-perforating machine	J. S. Ives	169,548	Nov. 2, 1875	208	69	8	763
Paper-perforating machine	P. McAleer	170,873	Dec. 7, 1875	192	66	8	976
Paper picture-frame	O. K. Bradford	166,962	Aug. 24, 1875	765	237	8	333
Paper, Process of ornamenting writing	G. La Monte and J. H. Hall	159,515	Feb. 9, 1875	280	90	7	230
Paper-pulp, Apparatus for the manufacture of	J. W. Dixon	168,382	Oct. 5, 1875	55	20	8	572
Paper-pulp, Bleaching jute for	E. Conley	165,307	July 6, 1875	148	.....	8	29
Paper-pulp, Bleaching jute for	G. W. Dubuisson	162,043	Apr. 13, 1875	403	.....	7	636
Paper-pulp, Compounding	G. Clarkson	171,099	Dec. 14, 1875	419	.....	8	1014
Paper-pulp engine	M. R. Bonju	160,746	Mar. 16, 1875	669	154	7	431
Paper-pulp engine	F. A. Cushman	163,638	May 25, 1875	885	279	7	893
Paper-pulp engine	A. Gardner	166,519	Aug. 10, 1875	330	100	8	253
Paper-pulp engines, Grinding-cylinder for	C. J. Bradbury	163,728	May 25, 1875	959	304	7	903
Paper-pulp, Machine for grinding wood for	B. F. Barker	160,996	Mar. 23, 1875	700	231	7	471
Paper-pulp, Manufacture of	J. F. Jones	158,641	Jan. 12, 1875	272	.....	7	62
Paper-pulp, Mechanism for molding	J. C. and L. Coburn	158,782	Jan. 19, 1875	415	140	7	98
Paper-pulp-molding machine	B. F. Barker	166,447	Aug. 10, 1875	271	81	8	245
Paper-pulp screen	J. S. Warren	165,192	July 6, 1875	51	15	8	16
Paper-pulp, Wood-grinder for	J. O. Gregg	163,926	June 1, 1875	75	25	7	941
Paper-pulp, Wood-grinder for	A. M. Zimmer	163,958	June 1, 1875	99	34	7	944
Paper, Safety	G. W. Casilear	167,223	Aug. 31, 1875	1033	321	8	377
Paper-sizing compound	J. Hogben	164,684	June 22, 1875	805	.....	7	1067
Paper-stock grinder	O. Abell	166,835	Aug. 17, 1875	628	195	8	306
Paper-stock-grinding machine	J. M. Burghardt	165,706	July 20, 1875	569	174	8	111
Paper towel, Ladies'	J. H. Hatch	162,647	Apr. 27, 1875	994	319	7	725
Paper-trimming machine	D. T. Broughton	168,963	Oct. 19, 1875	619	205	8	668
Paper-tube machine	A. G. Batchelder	158,354	Jan. 5, 1875	4	2	7	9
Paper-tube machine	H. M. Boies	168,366	Oct. 5, 1875	44	15, 16	8	571
Paper-tube machine	W. H. Brock	169,620	Nov. 9, 1875	295	95	8	782
Paper-tube machine	C. P. and W. F. Edwards	162,634	Apr. 27, 1875	980	315	7	724
Paper-tube machine	J. F. Jones	162,236	Apr. 20, 1875	600	{ 196 197 }	7	668
Paper-tube machine	N. Keely	169,107	Oct. 26, 1875	779	253	8	697
Paper-tube machine	L. Smith	168,193	Sept. 28, 1875	782	248	8	540
Paper tubing, Compound flexible	H. M. Boies	168,367	Oct. 5, 1875	45	16	8	571
Paper tubing, Manufacturing	H. M. Boies	168,365	Oct. 9, 1875	44	.....	8	570
Paper vessel	D. N. Russell	162,954	May 4, 1875	204	66	7	774
Paper vessel	J. Stevens	165,270	July 6, 1875	116	35	8	25
Paper vessels, Apparatus for making	W. H. Brock	169,619	Nov. 9, 1875	294	95	8	782
Paper-weight	J. F. Adams	166,836	Aug. 17, 1875	629	195	8	306
Paper-weight	E. Dressler	170,243	Nov. 23, 1875	925	288	8	878
Paper-weight	F. E. Whitney	165,465	July 13, 1875	339	99	8	62
Paraffine, &c., purifying apparatus	F. X. Byerley	164,672	June 22, 1875	794	{ 260 261 }	7	1066
Parasol and whip combined	J. Perrins	160,791	Mar. 16, 1875	520	167	7	437
Parchment, Vegetable	A. G. Fell	170,360	Nov. 23, 1875	1024	.....	8	893
Parer, Apple	E. L. Schanck	163,813	May 25, 1875	1030	326	7	913
Paring machine, Apple	W. M. Triscom	168,985	Oct. 19, 1875	640	211	8	671
Paring machine, Apple	A. Rippien	169,040	Oct. 19, 1875	692	228	8	678
Parlor-fountain	H. Wenzel	159,872	Feb. 16, 1875	611	202	7	281
Parlor-table	F. H. Cutter	164,976	June 29, 1875	1093	352	7	1111
Passenger-register	J. B. Benton	167,057	Aug. 24, 1875	855	267	8	366
Passenger-register	W. S. Thorn	163,546	May 18, 1875	788	249	7	873
Passenger-register	J. Thoss and A. Trautmann	163,544	May 18, 1875	786	249	7	873
Passenger-register	H. E. Towle and J. B. Benton	162,717	Apr. 27, 1875	1071	341	7	734
Pasteboard, Machine for making	B. F. Field	167,233	Aug. 31, 1875	1041	323	8	378
Pasteboard, Manufacture of	G. W. Russell	168,186	Sept. 28, 1875	776	{ 246 247 }	8	539
Pastry-table and refrigerator, Combined	H. Magee	162,566	Apr. 27, 1875	926	297	7	717
Pattern:							
See Casting-pattern. Loom-pattern.							
Coat-pattern. Tailor's pattern.							
Founder's pattern.							
Pattern-chart for drafting garments	M. A. and L. A. Melcher	169,564	Nov. 2, 1875	224	73, 74	8	765
Pattern for garments, Implement for notching	A. Warth	169,066	Oct. 19, 1875	717	236	8	881
Pattern-multiplier	O. W. Richardson	168,343	Oct. 5, 1875	22	9	8	568
Patterns, Apparatus for drafting tailors'	J. Bellamy	169,402	Nov. 2, 1875	76	23	8	745

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Patterns, Apparatus for stamping.....	J. Rosenthal.....	161, 158	Mar. 23, 1875	851	278	7	490
Pavement.....	N. B. Abbott and J. P. Cranford.....	167, 423	Sept. 7, 1875	43	12	8	412
Pavement.....	H. R. Bellamy.....	165, 530	July 13, 1875	395	119	8	71
Pavement.....	A. B. Dean.....	161, 013	Mar. 23, 1875	714	.....	7	473
Pavement.....	L. Dutertre.....	163, 168	May 11, 1875	420	136	7	809
Pavement.....	L. S. Filbert and L. M. Hoffman.....	160, 174	Feb. 23, 1875	897	295	7	328
Pavement.....	W. W. Hubbell.....	158, 415	Jan. 5, 1875	56	.....	7	17
Pavement.....	W. H. Jones.....	169, 005	Oct. 19, 1875	658	217	8	673
Pavement.....	S. Strong.....	164, 231	June 8, 1875	370	126	7	992
Pavement, Brick.....	H. M. Stow.....	168, 805	Oct. 11, 1875	464	151	8	638
Pavement, Brick.....	S. Strong.....	166, 822	Aug. 17, 1875	616	191	8	304
Pavement, Cement.....	J. Mock.....	163, 506	May 18, 1875	749	238	7	868
Pavement, Composition.....	D. G. Conger.....	161, 100	Mar. 23, 1875	799	262	7	484
Pavement, Composition.....	J. P. Richardson.....	161, 550	Mar. 30, 1875	1242	.....	7	549
Pavement, Concrete.....	J. H. Thormann and F. Brumshagen.....	166, 486	Aug. 10, 1875	304	91	8	249
Pavement in blocks, Apparatus for laying cement.....	J. B. Hurlbut.....	162, 172	Apr. 20, 1875	540	{ 177 178	7	661
Pavement, Stone.....	J. McBean.....	170, 874	Dec. 7, 1875	192	66	8	976
Pavement, Wood.....	J. Carr and M. D. Phillips.....	162, 218	Apr. 20, 1875	580	190	7	666
Pavement, Wood.....	W. Disney.....	159, 162	Jan. 26, 1875	790	259	7	155
Pavement, Wood.....	L. S. Filbert and L. M. Hoffman.....	163, 758	May 25, 1875	983	312	7	906
Pavement, Wood.....	S. Houston.....	171, 619	Dec. 28, 1875	962	311	8	1102
Pavement, Wood.....	C. H. Miller.....	159, 699	Feb. 9, 1875	431	144	7	252
Pavement, Wood.....	J. J. Schroyer.....	165, 882	July 20, 1875	741	226	8	135
Pavement, Wood.....	H. M. Stow.....	165, 695	July 20, 1875	560	171	8	110
Paving and building blocks, Press for forming concrete.....	T. Cook.....	161, 867	Apr. 13, 1875	254	85	7	617
Paving and roofing composition.....	J. R. McClintock.....	163, 222	May 11, 1875	467	.....	7	815
Paving and roofing composition.....	J. R. McClintock.....	163, 223	May 11, 1875	467	.....	7	815
Paving-block.....	W. F. Prentiss.....	171, 318	Dec. 21, 1875	652	213	8	1052
Paving-block.....	F. Von Versen and J. Bickel.....	165, 896	July 20, 1875	753	230	8	136
Pawl and ratchet.....	R. Tomlinson and J. Smith.....	159, 124	Jan. 26, 1875	760	250	7	150
Pawl and ratchet mechanism.....	J. L. Bond.....	159, 016	Jan. 26, 1875	666	217	7	137
Pawl and ratchet mechanism.....	G. D. Hamblin.....	169, 804	Nov. 9, 1875	489	154	8	806
Peat-cutter.....	B. J. Denton.....	161, 215	Mar. 23, 1875	896	294	7	497
Peat-cutter.....	G. S. Newton and F. Zollner.....	170, 184	Nov. 23, 1875	871	272	8	871
Peat-kiln.....	W. E. Wright.....	161, 466	Mar. 30, 1875	1159	374	7	538
Peat-machine.....	A. E. Barthel.....	171, 210	Dec. 21, 1875	556	{ 181 182 183	8	1039
Peat-machine.....	F. Dodge.....	159, 398	Feb. 2, 1875	140	48	7	204
Peat-machine.....	C. H. Williams.....	167, 596	Sept. 7, 1875	193	60, 61	8	433
Peat-molding machine.....	J. F. Boequet and V. A. Benard.....	160, 300	Mar. 2, 1875	37	14	7	354
Peg-cutter.....	M. Buhler.....	164, 139	June 8, 1875	286	97	7	980
Peg-cutter.....	W. J. Squires.....	160, 724	Mar. 9, 1875	432	143	7	419
Peg cutter, Boot and shoe.....	G. L. Ellis.....	165, 411	July 13, 1875	281	83	8	54
Peg-cutter handle.....	W. R. Barton.....	162, 014	Apr. 13, 1875	378	127	7	633
Peg-cutting machine.....	J. F. Smith.....	165, 886	July 20, 1875	745	228	8	135
Peg-float.....	D. Lynahan.....	160, 108	Feb. 23, 1875	841	277	7	320
Peg or nail, Shoe.....	T. T. Prosser.....	169, 839	Nov. 9, 1875	523	163	8	809
Peg or ribbon peg-wood.....	B. F. Sturtevant.....	159, 778	Feb. 16, 1875	524	175	7	270
Peg or sole fastening.....	B. F. Sturtevant.....	159, 977	Feb. 16, 1875	706	235	7	294
Peg-points, Machine for forming.....	B. F. Sturtevant and F. M. Shaw.....	159, 287	Feb. 2, 1875	40	15	7	190
Peg-points, Mechanism for compressing.....	F. M. Shaw.....	159, 284	Feb. 2, 1875	37	13, 14	7	190
Peg-points, Mechanism for compressing.....	B. F. Sturtevant.....	158, 998	Jan. 19, 1875	624	207	7	124
Peg-wood, Machine for pointing ribbon.....	B. F. Sturtevant.....	166, 429	Aug. 3, 1875	231	70, 71	8	232
Peg-wood, Ribbon.....	B. F. Sturtevant.....	159, 860	Feb. 16, 1875	599	199	7	279
Pegs, Manufacture of shoe.....	F. D. Ballou.....	167, 424	Sept. 7, 1875	44	12	8	412
Pegging-jack.....	J. J. Stewart.....	160, 727	Mar. 9, 1875	434	144	7	419
Pegging-jack attachment.....	F. Guild.....	168, 896	Oct. 19, 1875	555	182	8	659
Pegging-machine.....	J. E. Bickford and B. F. Sturtevant.....	162, 887	May 4, 1875	137	45	7	765
Pegging-machine.....	L. Goddu.....	171, 609	Dec. 28, 1875	940	308	8	1100
Pegging-machine.....	L. Goddu.....	171, 610	Dec. 28, 1875	946	{ 308 309	8	1100
Pegging-machine.....	H. Kuhlmann.....	159, 423	Feb. 2, 1875	163	55, 56	7	207
Pegging-machine.....	T. T. Prosser.....	165, 650	July 13, 1875	507	155	8	87
Pegging-machine.....	B. F. Sturtevant.....	159, 775	Feb. 16, 1875	521	{ 173 174	7	269
Pegging-machine.....	B. F. Sturtevant.....	159, 776	Feb. 16, 1875	522	174	7	269
Pegging-machine.....	B. F. Sturtevant.....	159, 856	Feb. 16, 1875	594	197	7	279
Pegging-machine.....	B. F. Sturtevant.....	159, 857	Feb. 16, 1875	595	197	7	279
Pegging-machine.....	B. F. Sturtevant.....	159, 858	Feb. 16, 1875	597	198	7	279
Pegging-machine attachment, Shoe.....	J. H. Oliver.....	167, 855	Sept. 21, 1875	454	144	8	486
Pegging machine, Boot and shoe.....	W. D. Orcutt.....	171, 414	Dec. 21, 1875	740	243	8	1064
Pegging machine, Boot and shoe.....	T. T. Prosser.....	165, 613	July 13, 1875	468	143	8	82
Pegging machine, Leather-screw.....	C. M. Higgins.....	169, 541	Nov. 2, 1875	194	66, 67	8	761
Pegging machine, Screw.....	A. C. McKnight.....	168, 042	Sept. 21, 1875	613	197	8	510
Pegging-machines, &c., Metallic rod and wire for.....	T. T. Prosser.....	169, 838	Nov. 9, 1875	522	163	8	809
Pegging-machines, Nail blank or strip for.....	W. A. Rogers.....	161, 280	Mar. 23, 1875	970	317	7	506
Pegging stand, Boot and shoe.....	A. Stone.....	167, 802	Sept. 14, 1875	390	125	8	469
Pen and pencil case.....	J. U. Gerow.....	165, 723	July 20, 1875	584	179	8	113
Pen and pencil case.....	J. Holland.....	159, 513	Feb. 9, 1875	278	90	7	230
Pen and pencil case.....	W. A. Sudden.....	169, 012	Oct. 19, 1875	666	219	8	674
Pen and pencil case.....	G. W. Mabie.....	160, 924	Mar. 16, 1875	629	205	7	452
Pen, Fountain.....	G. Baader.....	161, 923	Apr. 13, 1875	308	102	7	624
Pen, Fountain.....	G. Hauschild.....	161, 228	Mar. 23, 1875	914	299	7	499
Pen, Fountain.....	J. Johnston.....	170, 954	Dec. 14, 1875	284	95	8	996
Pen-handle and lead-pencil, Combined.....	H. C. Benson.....	161, 467	Mar. 30, 1875	1160	374	7	537
Pen-holder.....	E. Barberot.....	167, 729	Sept. 14, 1875	321	102	8	459
Pen-holder.....	J. Boyd.....	161, 657	Apr. 6, 1875	59	22	7	577
Pen-holder.....	J. Larro.....	162, 393	Apr. 20, 1875	749	244	8	686

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Pen-holder	D. M. Somers	167, 581	Sept. 7, 1875	177	56	8	431
Pen, Ruling	J. R. Gisburne	167, 759	Sept. 14, 1875	351	111	8	463
Pencil	G. W. McGill	166, 934	Aug. 24, 1875	737	228	8	329
Pencil and crayon holder	P. D. Richards	161, 902	Apr. 13, 1875	287	97	7	621
Pencil attachment, Slate	J. Poznanski	163, 886	June 1, 1875	43	14	7	936
Pencil-case	R. B. Currier	162, 533	Apr. 27, 1875	900	288	7	713
Pencil-case	W. I. Ludlow	165, 009	June 29, 1875	1121	362	7	1115
Pencil-case and calendar, Combined	R. Howland	168, 496	Oct. 5, 1875	158	52	8	587
Pencil-case, Magic	A. T. Cross	164, 430	June 15, 1875	577	187	7	1028
Pencil, Colored copying	G. Schwasshausser	169, 195	Oct. 26, 1875	852	.....	8	708
Pencil-sharpener	I. T. Dyer	171, 110	Dec. 14, 1875	428	142	8	1015
Pencil-sharpener	W. H. Keyes	161, 126	Mar. 23, 1875	823	269	7	487
Pencil-sharpener	M. McCall	164, 575	June 15, 1875	697	227	7	1044
Pencil-sharpener and eraser, Combined	J. S. Hall	170, 083	Nov. 16, 1875	755	239	8	848
Pencil sharpener, Slate	G. W. Choate	161, 862	Apr. 13, 1875	249	83	7	616
Pencils, Machine for manufacturing	R. Lanstrom	168, 030	Sept. 21, 1875	601	192	8	508
Pendulum, Compensation	C. M. C. Prentice	104, 210	June 8, 1875	347	119	7	989
Pepper-box, Register	T. W. Burger	159, 865	Feb. 16, 1875	633	210	7	284
Percolator	G. McPherson	162, 673	Apr. 27, 1875	1021	327	7	729
Perfecting-press, Rotary	J. L. Firm	169, 795	Nov. 9, 1875	481	151	8	805
Perfecting-press, Rotary	J. L. Firm	169, 796	Nov. 9, 1875	482	152	8	805
Perfecting-press, Rotary	J. L. Firm	170, 542	Nov. 30, 1875	1211	381	8	927
Perfume-fountain	E. Rath	160, 713	Mar. 9, 1875	420	140	7	417
Perfume-fountain	E. Rath	170, 592	Nov. 30, 1875	1262	397	8	933
Perfuming and disinfecting apparatus	C. L. C. Battmann	169, 671	Nov. 9, 1875	349	110	8	788
Permutation-lock	E. Grah	163, 767	May 25, 1875	990	314	7	907
Permutation-lock	D. K. Miller	167, 008	Aug. 24, 1875	814	253	8	340
Permutation-lock, Safe-door	H. Gross	164, 167	June 8, 1875	313	106	7	984
Pessary	T. Brauns	168, 711	Oct. 11, 1875	382	125	8	626
Pessary	J. Kean	163, 871	June 1, 1875	31	10	7	935
Petroleum, Apparatus for the storage of	G. Des Georges	160, 511	Mar. 9, 1875	243	83	7	392
Petroleum-burning furnace	C. Hilbert	160, 267	Mar. 2, 1875	11	5	7	350
Petroleum, Compound for decolorizing	H. Dubbs	161, 672	Apr. 6, 1875	73	.....	7	579
Photo-plates for printing in fatty inks, Preparing	P. A. Despaquis	170, 716	Dec. 7, 1875	57	.....	8	958
Photo-relief plates for printing, &c., Process of producing	L. E. Levy and D. Bachrach, jr.	159, 104	Jan. 26, 1875	742	245	7	148
Photograph-burnisher	J. Coumbe	168, 457	Oct. 5, 1875	121	42	8	582
Photograph-burnisher	A. C. Moestue	159, 035	Jan. 26, 1875	683	224	7	139
Photograph-burnisher	E. R. Weston	162, 442	Apr. 20, 1875	796	259	7	692
Photograph-burnisher	E. R. Weston	165, 140	June 29, 1875	1236	398	7	1131
Photograph, Carbon	C. L. Lambert	171, 392	Dec. 21, 1875	722	.....	8	1061
Photograph-lubricator	E. R. Weston	164, 625	June 15, 1875	739	.....	7	1050
Photograph-washing machine	J. L. Caylor	166, 847	Aug. 17, 1875	638	199	8	307
Photograph-wrapper	C. Parker	164, 324	June 8, 1875	459	152	7	1003
Photographs, Coloring enameled	W. W. Williams	167, 485	Sept. 7, 1875	90	.....	8	419
Photographs, Printing	B. Swasey	171, 062	Dec. 14, 1875	385	127	8	1009
Photographic background	I. W. Taber and T. H. Boyd	170, 204	Nov. 23, 1875	889	278	8	874
Photographic burnisher	W. G. Entekin	163, 170	May 11, 1875	421	137	7	809
Photographic burnishers, Burnishing plates for	J. Bramble, jr.	159, 889	Feb. 16, 1875	628	208	7	283
Photographic camera	J. and J. Stock	166, 315	Aug. 3, 1875	119	37	8	216
Photographic dark-trunk	F. Robbins	164, 765	June 22, 1875	878	286	7	1077
Photographic eye-rest	S. M. Williams	170, 794	Dec. 7, 1875	127	42	8	967
Photographic head-rest	F. M. Spencer	165, 037	June 29, 1875	1143	369	7	1118
Photographic-head-rest stand	J. J. Hayes	171, 614	Dec. 28, 1875	957	310	8	1102
Photographic-picture exhibitor	A. L. High	161, 120	Mar. 23, 1875	819	268	7	486
Photographic plate	O. B. Evans	166, 922	Aug. 24, 1875	727	.....	8	328
Photographic-plate holder	S. L. Bergstresser	159, 537	Feb. 9, 1875	298	96	7	233
Photographic-plate holder	F. A. and W. S. Howson	169, 702	Nov. 9, 1875	385	121	8	793
Photographic-plate holder	I. W. Taber and T. H. Boyd	158, 872	Jan. 19, 1875	499	168	7	108
Photographic prints, Machine for washing	O. Dubois	165, 946	July 27, 1875	852	262	8	162
Photographic-vignetting machine	C. C. Merrill	165, 017	June 29, 1875	1127	364	7	1116
Photometer	P. Munzinger	170, 292	Nov. 23, 1875	967	302	8	884
Photometer	O. Schuette	165, 764	July 20, 1875	619	190	8	119
Photometer-balance, Electrical	W. W. Goodwin	158, 636	Jan. 12, 1875	266	90	7	61
Photometer, Portable or hand	W. W. Goodwin	164, 728	June 22, 1875	849	275	7	1073
Piano action, Upright	C. E. Rogers	160, 281	Mar. 2, 1875	22	9	7	352
Piano action, Upright	C. E. Rogers	171, 046	Dec. 14, 1875	365	121	8	1006
Piano attachment	A. Steinway	164, 052	June 1, 1875	186	66, 67	7	956
Piano attachment	A. Steinway	164, 053	June 1, 1875	187	67	7	956
Piano attachment	A. Steinway	164, 054	June 1, 1875	188	68	7	956
Piano attachment	A. D. B. Wolff	169, 877	Nov. 9, 1875	560	175	8	814
Piano-forte	G. C. Manner	167, 403	Sept. 7, 1875	22	6	8	409
Piano-forte action	T. P. Carr	165, 304	July 6, 1875	144	44	8	28
Piano-forte action	A. R. Hebard	161, 229	Mar. 23, 1875	915	300	7	499
Piano-forte action, Grand	C. F. T. Steinway	170, 645	Nov. 30, 1875	1309	413	8	940
Piano-forte agraffe	E. Gabler	169, 985	Nov. 16, 1875	662	207	8	836
Piano-forte agraffe	H. Kranich and J. Bach	162, 829	May 4, 1875	84	28	7	758
Piano-forte agraffe	F. W. Nicholas	161, 266	Mar. 23, 1875	957	312	7	504
Piano-forte agraffe	C. T. T. Steinway	170, 646	Nov. 30, 1875	1309	414	8	940
Piano-forte case	H. J. Baker	165, 699	July 20, 1875	563	172	8	110
Piano-forte damper attachment	M. W. Hanchett	168, 484	Oct. 5, 1875	147	49	8	586
Piano-forte damper mechanism	E. Porter	165, 503	July 13, 1875	370	109	8	67
Piano-forte metal frame	C. F. T. Steinway	170, 647	Nov. 30, 1875	1310	414	8	940
Piano-forte music-rack, Upright	S. Brambach	170, 619	Nov. 30, 1875	1287	407	8	937
Piano-forte, &c., name-board	H. Behning and J. Diehl	160, 299	Mar. 2, 1875	37	14	7	354
Piano-forte pedal	W. F. Ulman	169, 931	Nov. 16, 1875	619	192	8	830
Piano-forte pedal attachment	L. C. Whiting	162, 443	Apr. 20, 1875	797	259	7	692
Piano-forte stringing and tension device	C. E. Rogers	171, 047	Dec. 14, 1875	366	122	8	1007
Piano-forte-stringing device	W. F. Ulman	169, 932	Nov. 16, 1875	620	192	8	830
Piano-forte, Upright	B. E. Colley	163, 745	May 25, 1875	973	308	7	905
Piano-insulator	W. R. Miller	159, 342	Feb. 2, 1875	94	32	7	197
Piano-keys, Device for shaping	M. Pratt	162, 417	Apr. 20, 1875	772	251	7	689
Piano-lid prop	D. P. Ramsdell	159, 041	Jan. 26, 1875	687	226	7	140
Piano repeating-action	F. Polster	159, 838	Feb. 16, 1875	578	192	7	276
Piano stringing and tuning device	W. F. Kearsing	160, 600	Mar. 9, 1875	322	108	7	404

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Piano-stringing device.....	A. G. Gardner.....	164,988	June 29, 1875	1102	356	7	1112
Piano, &c., tuning pin.....	J. M. Branig.....	166,253	Aug. 3, 1875	63	20	8	208
Piano-tuning-pin lock.....	G. P. Reeves.....	164,763	June 22, 1875	876	286	7	1077
Piano, Upright.....	E. Gabler.....	169,984	Nov. 16, 1875	661	207	8	836
Piano, Upright.....	G. Trayser.....	169,386	Nov. 2, 1875	63	18	8	743
Pianos, Stringing.....	A. Moeller.....	164,862	June 22, 1875	973	314 315	7	1088
Pick.....	T. R. Pinks.....	165,502	July 13, 1875	369	109	8	66
Picks, &c., Manufacture of.....	J. C. Klein.....	171,143	Dec. 14, 1875	464	152	8	1019
Picks, &c., Roll for forming the eyes of.....	W. Wustenhagen and J. Besler.....	161,188	Mar. 23, 1875	875	287	7	494
Picker:							
See Grape and flower picker. Ice-picker.							
Hair-picker. Loom-picker.							
Picker-staff check.....	W. W. Stevenson and I. Nuttall.....	167,707	Sept. 14, 1875	301	95	8	456
Picket-pin.....	J. D. Field.....	168,890	Oct. 19, 1875	550	180	8	659
Pickles, Process of preparing.....	I. Reckhon and W. H. Stafford.....	164,659	June 22, 1875	784	.....	7	1064
Picture and letter block, Dissected.....	J. Dennis, jr.....	171,507	Dec. 28, 1875	846	277	8	1086
Picture-exhibitor.....	J. Buechner.....	164,138	June 8, 1875	285	97	7	980
Picture-exhibitor.....	C. S. Mills.....	159,201	Jan. 26, 1875	829	273	7	160
Picture-exhibitor.....	L. H. Sheppard.....	171,585	Dec. 28, 1875	916	300	8	1097
Picture frame.....	A. D. Judd.....	165,737	July 20, 1875	595	183	8	115
Picture-frame compound.....	C. D. Wilson and E. Gerry.....	159,555	Feb. 9, 1875	311	161	7	234
Picture-frame corner piece and clamp.....	C. P. Poinier.....	170,392	Nov. 23, 1875	1057	332	8	897
Picture-frame, Glass.....	W. H. Roby.....	164,103	June 8, 1875	257	88	7	977
Picture-frame hanger.....	A. Brown.....	165,206	July 6, 1875	63	18	8	17
Picture-frame hanger.....	S. Dobbs and W. M. Brayton.....	160,754	Mar. 16, 1875	479	157	7	432
Picture-frame hanger.....	F. A. Phillippi.....	163,244	May 11, 1875	488	158	7	818
Picture, &c., frames, Compound for the manufacture of.....	A. N. Atwood.....	159,629	Feb. 9, 1875	364	.....	7	243
Picture-hanger.....	J. T. Robertson.....	164,937	June 29, 1875	1063	342	7	1107
Picture-hanger.....	C. M. Smith.....	168,113	Sept. 28, 1875	706	223	8	529
Picture-holder.....	J. Binney.....	160,564	Mar. 9, 1875	290	98	7	399
Picture-holder.....	F. B. Perkins and W. S. Dodds.....	170,585	Nov. 30, 1875	1252	394	8	932
Picture-hook, Adjustable.....	T. C. Richards.....	167,620	Sept. 14, 1875	226	70	8	445
Picture-mount.....	J. A. Van Drelzen.....	161,303	Mar. 23, 1875	990	324	7	508
Picture-nail.....	T. C. Richards.....	169,730	Nov. 9, 1875	410	130	8	796
Picture-nail.....	J. P. Stockton, jr.....	169,739	Nov. 9, 1875	419	133	8	797
Picture-nail.....	O. W. Taft.....	167,039	Aug. 24, 1875	837	261	8	343
Pictures, Apparatus for viewing.....	E. S. Ritchie.....	163,946	June 1, 1875	91	31	7	943
Pictures for transferring, Manufacture of oil.....	W. Kuehn.....	168,096	Sept. 28, 1875	691	218	8	527
Pictures, mirrors, &c., Device for hanging.....	H. D. Pope.....	167,786	Sept. 14, 1875	376	120	8	466
Pie-plate stand.....	A. Moody.....	170,881	Dec. 7, 1875	197	68	8	977
Pier, Cast-iron.....	J. F. Hume.....	167,253	Aug. 31, 1875	1058	329	8	381
Piers, Construction of.....	J. Milroy and J. W. Butler.....	160,938	Mar. 16, 1875	641	209	7	454
Pigeon-starter.....	H. A. Rosenthal.....	159,846	Feb. 16, 1875	584	194	7	277
Pile, Box.....	E. G. Scovil.....	169,850	Nov. 9, 1875	534	166	8	811
Pile-driver.....	M. McDermott.....	163,226	May 11, 1875	469	152	7	816
Pile-driver, Explosive.....	J. M. Allen.....	161,373	Mar. 30, 1875	1075	348	7	527
Pile-driver, Steam.....	T. T. Loomis.....	160,781	Mar. 16, 1875	507	165	7	436
Pile-driver, Steam.....	T. T. Loomis.....	165,170	July 6, 1875	27	8	8	12
Piles, Extension-cap for.....	J. C. Davis.....	171,102	Dec. 14, 1875	421	140	8	1014
Piles for beams, Manufacture of.....	Z. S. Durfee.....	158,578	Jan. 12, 1875	214	73	7	54
Piling, Driver for sheet.....	S. Gardner.....	164,541	June 15, 1875	668	216	7	1040
Pill-coating machine.....	A. F. W. and W. F. A. Neynaber.....	170,185	Nov. 23, 1875	872	273	8	871
Pill-tile.....	W. E. Van Velsor.....	163,552	May 18, 1875	793	251	7	874
Pills, Manufacture of.....	J. Dunton.....	168,240	Sept. 28, 1875	821	.....	8	545
Pillow.....	G. T. Barker.....	168,126	Sept. 28, 1875	721	227	8	531
Pillow-case frame.....	T. F. Walter.....	167,369	Aug. 31, 1875	1160	365	8	395
Pin:							
See Brooch-pin. Picket-pin.							
Clothes-pin. Rolling-pin.							
Diaper-pin. Safety-pin.							
Hair-crimping pin. Shawl-pin.							
Jewelry-pin. Toilet-pin.							
Ox-bow pin. Wooden pin.							
Piano-tuning pin.							
Pin.....	W. R. Gardner and C. C. Blossom.....	159,810	Feb. 16, 1875	555	184	7	273
Pin and dowel making machine.....	R. H. and O. S. Eldridge.....	164,367	June 15, 1875	515	169	7	1020
Pin-assorting machine.....	J. D. Shelton.....	166,153	July 27, 1875	1014	312	8	185
Pin-separator.....	J. D. Shelton.....	161,164	Mar. 23, 1875	856	280	7	491
Pinch-bar.....	M. G. Collins.....	163,153	May 11, 1875	405	130	7	807
Pinch-bar.....	W. Werts.....	158,450	Jan. 5, 1875	84	29	7	21
Pinchers.....	G. H. Strong.....	163,277	May 11, 1875	520	169	7	822
Pinchers, Crimper's.....	G. G. Wright and G. Bassett.....	169,503	Nov. 2, 1875	160	54	8	757
Pinchers, Wire-barb.....	J. Dobbs and B. F. Booth.....	166,511	Aug. 10, 1875	324	98	8	252
Pinking-machine.....	T. Hagerty.....	161,780	Apr. 6, 1875	162	56	7	592
Pipe:							
See Blow-pipe. Sheet-metal pipe.							
Cement-pipe. Smoke-stack heater.							
Cigar-pipe. pipe.							
Clay pipe. Smoking-pipe.							
Concrete pipe. Sprinkling-pipe.							
Dip-pipe. Steam-pipe.							
Drain-pipe. Steam and gas pipe.							
Drain and sewer pipe. Stove-pipe.							
Earthenware pipe. Tobacco-pipe.							
Hydraulic pipe. Toy bubble-pipe.							
Locomotive exhaust-pipe. Veneer-pipe.							
pipe. Waste-pipe.							
Metallic pipe. Water-pipe.							
Pump suction-pipe. Wrought-iron pipe.							
Service coupler-pipe.							
Pipe.....	R. M. C. Broas.....	169,674	Nov. 9, 1875	352	111	8	789
Pipe.....	H. S. Lansdell and J. S. Leng.....	162,833	May 4, 1875	88	29	7	758
Pipe.....	F. G. Merriam.....	169,565	Nov. 2, 1875	226	74	8	765
Pipe.....	F. G. Merriam.....	169,566	Nov. 2, 1875	227	74	8	765

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Pipe and nut wrench	F. Kohler	159,420	Feb. 2, 1875	160	54	7	206
Pipe-coupling	J. A. Cole	170,058	Nov. 16, 1875	725	231	8	845
Pipe-coupling	A. W. Cooper and J. Sutcliffe	163,463	May 18, 1875	703	224	7	863
Pipe-coupling	H. K. Flagler and W. E. Dodge	168,733	Oct. 11, 1875	402	131	8	629
Pipe-coupling	C. F. Henis	166,189	Aug. 24, 1875	798	247	8	337
Pipe-cutter	F. I. Maule	167,773	Sept. 14, 1875	366	116	8	465
Pipe-drilling machine	F. Grinnell	169,354	Nov. 2, 1875	32	9, 10	8	739
Pipe-elbows, Machine for making	A. Syverson	169,863	Nov. 9, 1875	546	170	8	812
Pipe-fittings, Device for holding	T. P. Hardy	160,319	Mar. 2, 1875	58	21	7	357
Pipe-fittings, Machine for tapping	J. Kacerovsky	161,340	Mar. 30, 1875	1040	{ 338 339 }	7	523
Pipe-joint	J. Hyde	170,373	Nov. 23, 1875	1037	325	8	894
Pipe-joint	B. Jennings	170,476	Nov. 30, 1875	1150	362	8	918
Pipe-joint, Cold-packed	A. N. Rankin	169,659	Nov. 9, 1875	337	107	8	787
Pipe-joint, Flexible	J. P. Culver	163,051	May 11, 1875	312	160	7	795
Pipe or hose coupling	G. M. Hopkins	162,169	Apr. 20, 1875	538	177	7	660
Pipe or tubing, Coupling	H. K. Flagler and C. F. Brown	170,473	Nov. 30, 1875	1147	362	8	918
Pipe-shield	H. Palmieri	163,241	May 11, 1875	485	158	7	818
Pipe-stem	J. W. Fleischmann	169,349	Nov. 2, 1875	25	8	8	738
Pipe-stem	H. C. Fritz	165,814	July 20, 1875	673	206	8	125
Pipe welding and finishing machine	M. Blakey	166,449	Aug. 10, 1875	273	82	8	245
Pipe-wrench	M. S. Clark	164,075	June 8, 1875	231	80	7	973
Pipe-wrench	G. D. Dean	163,642	May 25, 1875	888	{ 280 281 }	7	894
Pipe-wrench	C. H. Fulmer	160,415	Mar. 2, 1875	141	50	7	369
Pipe-wrench	D. Gilbert	160,179	Feb. 23, 1875	901	296	7	328
Pipe-wrench	L. Glynn	165,725	July 20, 1875	586	180	8	114
Pipe-wrench	H. Otto	160,946	Mar. 16, 1875	649	211	7	455
Pipe-wrench	D. P. Stanton	170,201	Nov. 23, 1875	887	277	8	873
Pipe-wrench	W. K. Stevens	160,852	Oct. 19, 1875	518	170	8	654
Pipe-wrench	H. C. Stouffer	159,229	Jan. 26, 1875	857	279	7	164
Pipe-wrench	H. C. Stouffer	166,428	Aug. 3, 1875	230	70	8	231
Pipe-wrench	G. W. Waitt	167,368	Aug. 31, 1875	1159	365	8	395
Pipe-wrench	J. B. Westwick	159,234	Jan. 26, 1875	861	281	7	165
Pipe-wrench	J. A. White	171,333	Dec. 21, 1875	664	219	8	1054
Pipes with cement, Machine for lining	M. Allen	162,515	Apr. 27, 1875	884	283	7	712
Pisciculture apparatus	A. Bond	160,002	Feb. 23, 1875	753	249	7	307
Pistol-stock	W. L. Godfrey	160,766	Mar. 16, 1875	495	161	7	434
Pistol-stock	W. L. Godfrey	163,478	May 18, 1875	723	230	7	865
Piston	T. S. Davis	160,752	Mar. 16, 1875	478	156	7	432
Piston-rod lubricator	S. Hoffmaster	161,614	Apr. 6, 1875	22	9, 10	7	572
Piston-springs, Manufacturing	J. Mitchell	171,157	Dec. 14, 1875	478	156	8	1021
Piston, Steam	O. M. Stillman	167,860	Sept. 21, 1875	459	145	8	486
Piston, Steam-engine	W. T. Duvall	166,592	Aug. 10, 1875	389	121	8	262
Pistons of steam-engines, Cushion for	G. H. Reynolds	162,192	Apr. 20, 1875	557	183	7	663
Pitcher, Glass sirup	L. Wagner	161,364	Mar. 30, 1875	1062	345	7	526
Pitcher, Molasses	L. Wagner	167,862	Sept. 21, 1875	461	146	8	487
Pitcher, Self-closing	W. H. McGrew and C. A. Clark	170,096	Nov. 16, 1875	766	243	8	850
Pitcher, Sirup	S. W. Babbitt	164,128	June 8, 1875	277	95	7	979
Pitman	T. E. Chandler	158,571	Jan. 12, 1875	209	71	7	53
Pitman	J. R. Taylor	165,040	June 29, 1875	1146	370	7	1119
Pitman	J. F. Thomas	166,039	July 27, 1875	900	278	8	168
Pitman-connection	L. H. Davis	158,690	Jan. 12, 1875	315	107	7	68
Pitman-connection	G. H. Earnest	170,666	Dec. 7, 1875	12	4	8	952
Pitman-connection	S. B. Howard	168,254	Sept. 28, 1875	836	267	8	547
Pitman-connection	L. Mangus	158,852	Jan. 19, 1875	481	161	7	106
Pitman-connection, Elastic	G. W. Harrison	160,426	Mar. 2, 1875	151	53	7	370
Pitman-connections, Oscillating-joint for	A. K. Smith	167,948	Sept. 21, 1875	525	168	8	497
Pivot-chair	J. Lemman	163,790	May 25, 1875	1010	320	7	910
Plaiting-machine	E. L. Howard	169,642	Nov. 9, 1875	323	102	8	785
Plaiting-machine	M. M. Macdonald	170,869	Dec. 7, 1875	189	64	8	976
Plane	G. L. Weaver	160,132	Feb. 23, 1875	860	285	7	323
Plane, Bench	C. Bridges	165,704	July 20, 1875	567	173	8	111
Plane, Bench	L. L. Davis	167,311	Aug. 31, 1875	1105	348	8	388
Plane, Bench	T. Hagerty	161,609	Apr. 6, 1875	18	7	7	571
Plane, Bench	W. Johnstone	161,516	Mar. 30, 1875	1213	390	7	545
Plane, Bench	J. E. Norwood	161,701	Apr. 6, 1875	95	33	7	583
Plane, Bench	H. Shogren	165,884	July 20, 1875	743	227	8	135
Plane, Bench	J. A. Traut and H. Richards	168,431	Oct. 5, 1875	98	34	8	579
Plane, Bench	T. H. Wall	164,350	June 8, 1875	487	160	7	1007
Plane, Bench	D. F. Williams	166,239	Aug. 3, 1875	49	16	8	206
Plane, Bench	D. F. Williams	166,240	Aug. 3, 1875	50	16	8	206
Plane, Block	J. A. Traut	159,865	Feb. 16, 1875	605	200	7	280
Plane, Carpenter's	M. C. Mayo	167,772	Sept. 14, 1875	364	116	8	465
Plane, Carpenter's	E. G. Storke	162,710	Apr. 27, 1875	1063	339	7	734
Plane, Dado	C. G. Miller and L. Bailey	165,356	July 6, 1875	195	58	8	35
Plane-guide	W. S. Shipe	167,943	Sept. 21, 1875	522	167	8	497
Plane guide, Bench	H. P. Taylor	165,132	June 29, 1875	1226	394	7	1130
Plane-iron	W. Young	165,291	July 6, 1875	133	40	8	27
Plane, Joiner's	J. Look	165,742	July 20, 1875	599	184	8	116
Plane, Tonguing and grooving	C. G. Miller	165,355	July 6, 1875	194	58	8	35
Planer-cutter sharpener	G. Manvel	167,920	Sept. 21, 1875	505	161	8	494
Planers, Work-holding device for metal	A. B. Prouty	164,594	June 15, 1875	713	232	7	1046
Planing and molding machines, Cutter-head for	G. J. Shimer	166,035	July 27, 1875	897	277	8	168
Planing-machine	C. B. Beall	163,567	May 25, 1875	818	250	7	885
Planing-machine	E. Benjamin	164,634	June 22, 1875	761	250	7	1061
Planing-machine	C. and G. F. Buss	161,749	Apr. 6, 1875	138	48	7	589
Planing-machine	W. H. Doane and G. W. Passel	167,749	Sept. 14, 1875	337	108	8	461
Planing-machine	A. H. Frank and G. Spire	171,510	Dec. 28, 1875	848	277	8	1087
Planing-machine	H. C. Holloway	164,739	June 22, 1875	858	279	7	1074
Planing-machine	L. Houston	171,480	Dec. 28, 1875	818	268	8	1083
Planing-machine	C. R. Patterson	163,802	May 25, 1875	1021	{ 323 324 }	7	912
Planing-machine	D. H. Bice and J. W. Murkland	168,529	Oct. 5, 1875	110	62	8	591
Planing-machine	J. K. Smith	165,264	July 6, 1875	112	33	8	24

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Planing machine	G. Spire	162,776	May 4, 1875	38	12	7	752
Planing-machine	C. R. Tompkins	164,666	June 22, 1875	789	259	7	1065
Planing-machine	D. L. Toppan	161,995	Apr. 13, 1875	363	122	7	631
Planing-machine	C. P. S. Wardwell	160,372	Mar. 2, 1875	101	37	7	363
Planing-machine	W. Wells	167,145	Aug. 24, 1875	940	293	8	358
Planing-machine	G. E. Woodbury	161,726	Apr. 6, 1875	115	41, 42	7	596
Planing-machine	L. S. Woodbury	166,444	Aug. 3, 1875	247	75	8	234
Planing-machine cutter-head	H. H. Baker	170,802	Dec. 7, 1875	134	44	8	968
Planing-machine-cutter holder	W. B. Smith	167,793	Sept. 14, 1875	381	122	8	467
Planing-machine feed-roller	S. N. Brown and H. W. Meyer	158,671	Jan. 12, 1875	300	102	7	66
Planing-machine, Hand	W. H. Doane and G. W. Passel	170,349	Nov. 23, 1875	1016	319	8	892
Planing machine, Miter	J. Mennebach	165,600	July 13, 1875	456	139	8	80
Planing-machine priming attachment	B. C. Chambers	169,520	Nov. 22, 1875	177	59	8	759
Planing machine, Surface	W. G. Margedant	171,397	Dec. 21, 1875	726	238 } 239 }	8	1062
Planing machine, Wood	W. W. Carey	160,507	Mar. 9, 1875	240	82	7	391
Planing machine, Wood	J. S. Graham	164,989	June 29, 1875	1103	356	7	1113
Planing machine, Wood	L. M. Hills and E. Allen	162,649	Apr. 27, 1875	995	320	7	725
Planing machine, Wood	J. Ross	161,444	Mar. 30, 1875	1138	367	7	535
Planing-machines, Adjusting feed-rolls for	C. D. Lawrence and C. E. Ward	168,610	Oct. 11, 1875	331	108	8	619
Planing-clamp	J. Hastings	166,524	Aug. 10, 1875	333	101	8	254
Plant-protector	M. E. Slocum	163,417	May 18, 1875	663	212	7	857
Plants, Portable cover for	W. Musgrove	159,346	Feb. 2, 1875	97	33	7	197
Planter and cultivator, Combined	C. F. Keller	168,750	Oct. 11, 1875	418	136	8	632
Planter and cultivator, Corn	P. S. Starnes	165,513	July 13, 1875	379	112 } 113 }	8	68
Planter and drill, Seed	W. C. Walker	169,750	Nov. 9, 1875	433	137	8	799
Planter and fertilizer distributor, Cotton-seed	J. B. Legg	160,920	Mar. 16, 1875	625	204	7	452
Planter and fertilizer-distributor, Seed	D. F. Valentine	165,198	July 6, 1875	56	16	8	16
Planter and fertilizer-distributor, Seed	M. P. Curles	170,823	Dec. 7, 1875	152	51	8	971
Planter, Check-row	W. H. Johnson	170,673	Dec. 7, 1875	18	5	8	953
Planter, Check-row	J. Klar and H. S. Dipron	169,361	Nov. 2, 1875	39	12	8	740
Planter check-row attachment, Corn	G. C. Flagg	169,980	Nov. 16, 1875	658	206	8	835
Planter check-row attachment, Corn	M. Newton	165,115	June 29, 1875	1214	391	7	1128
Planter check-row cord, Corn	G. D. Haworth	159,177	Jan. 26, 1875	807	264	7	157
Planter check-rower, Corn	G. D. Haworth	160,035	Feb. 23, 1875	799	262	7	313
Planter, Corn	J. B. Abbott	170,147	Nov. 23, 1875	837	263	8	867
Planter, Corn	H. Bagley	158,352	Jan. 5, 1875	2	1	7	9
Planter, Corn	C. Berryman	160,382	Mar. 2, 1875	110	40	7	364
Planter, Corn	J. Bryer	169,409	Nov. 2, 1875	82	26	8	746
Planter, Corn	J. Elverud	158,410	Jan. 5, 1875	52	18	7	16
Planter, Corn	A. Fox	168,632	Oct. 11, 1875	315	102 } 103 }	8	616
Planter, Corn	W. Gardner and G. L. Harp	169,432	Nov. 2, 1875	102	32	8	749
Planter, Corn	W. B. Garoutte	165,322	July 6, 1875	165	50	8	31
Planter, Corn	C. Gmeiner and C. Schöttler	170,728	Dec. 7, 1875	68	21	8	959
Planter, Corn	M. Gregg	158,487	Jan. 5, 1875	122	41	7	26
Planter, Corn	H. P. Hall	158,488	Jan. 5, 1875	123	41	7	26
Planter, Corn	A. Hearst	170,474	Nov. 30, 1875	1148	362	8	918
Planter, Corn	A. Hodgson	168,396	Oct. 5, 1875	69	24	8	574
Planter, Corn	C. Hutchins	162,173	Apr. 20, 1875	541	178	7	661
Planter, Corn	J. Kelly	167,612	Sept. 14, 1875	220	68	8	444
Planter, Corn	B. King	169,176	Oct. 26, 1875	838	273	8	706
Planter, Corn	L. L. Lawrence and G. S. Thomas	159,939	Feb. 16, 1875	672	223	7	289
Planter, Corn	A. M. Manny	159,832	Feb. 16, 1875	572	190	7	276
Planter, Corn	E. E. Matthews	167,552	Sept. 7, 1875	152	47	8	427
Planter, Corn	J. G. Mole	169,721	Nov. 9, 1875	400	126	8	795
Planter, Corn	H. Moore	158,431	Jan. 5, 1875	67	24	7	19
Planter, Corn	E. Morgan	168,046	Sept. 21, 1875	620	198	8	511
Planter, Corn	T. L. Rittenhouse and J. V. Lewis	169,041	Oct. 19, 1875	693	228 } 229 }	8	678
Planter, Corn	A. Roark	159,454	Feb. 2, 1875	192	65	7	211
Planter, Corn	L. Scofield	162,106	Apr. 13, 1875	458	152 } 153 }	7	643
Planter, Corn	G. W. Shepherd	165,765	July 20, 1875	620	191	8	119
Planter, Corn	A. M. Southard	169,307	Oct. 26, 1875	961	311	8	722
Planter, Corn	A. Staley	159,618	Feb. 9, 1875	357	118	7	242
Planter, Corn	J. Stoll	162,428	Apr. 20, 1875	782	254	7	690
Planter, Corn	F. Van Doren	162,779	May 4, 1875	41	13	7	752
Planter, Corn	J. K. Welter	164,624	June 15, 1875	738	241	7	1050
Planter, Corn	O. P. Williams	158,557	Jan. 5, 1875	178	62	7	34
Planter, Corn	S. Wishard	171,462	Dec. 21, 1875	780	258	8	1069
Planter, Corn	S. Wright	167,287	Aug. 31, 1875	1086	341	8	385
Planter, Corn and Seed	H. P. Sullivan	170,412	Nov. 23, 1875	1075	339	8	900
Planter, Cotton	J. B. Onan	167,466	Sept. 7, 1875	76	23	8	417
Planter, Cotton, corn, and pea	D. W. Bristol and J. F. B. Searcey	166,254	Aug. 3, 1875	64	20	8	208
Planter, Cotton-seed	B. F. Cadenhead	160,389	Mar. 2, 1875	115	42	7	365
Planter, Cotton-seed	J. Dana	163,748	May 25, 1875	976	309	7	905
Planter, Cotton-seed	J. C. Jenkins	164,304	June 8, 1875	441	146	7	1001
Planter, Cotton-seed	B. F. Miller and W. J. Reeves	158,727	Jan. 12, 1875	347	118	7	73
Planter, Gang corn	S. P. Evans	160,889	Mar. 16, 1875	599	195	7	448
Planter, Hand	D. W. Hughes	167,251	Aug. 31, 1875	1057	329	8	381
Planter, Hand corn	J. Beers	163,967	June 1, 1875	105	36	7	945
Planter, Hand corn	J. W. Cleland	161,932	Apr. 13, 1875	315	105	7	624
Planter, Hand corn	O. C. Gilmore	168,389	Oct. 5, 1875	61	22	8	573
Planter, Hand corn	H. Ogborn and T. T. Kendrick	162,493	Apr. 27, 1875	865	277	7	709
Planter, Hand corn	E. S. Turner	158,545	Jan. 5, 1875	168	57	7	32
Planter, Hand potato	J. Sawyer	158,742	Jan. 12, 1875	358	122	7	74
Planter, Hand seed	T. J. Hubbell	170,865	Dec. 7, 1875	186	63	8	975
Planter, Pilot-wheel corn	J. Campbell	162,621	Nov. 9, 1875	297	96	8	782
Planter, Potato and seed	W. H. Whitman	163,711	May 25, 1875	943	299	7	901
Planter, Rice	J. C. Brand	159,148	Jan. 26, 1875	779	256	7	153
Planter, Seed	W. V. Burgess	162,527	Apr. 27, 1875	893	286	7	713
Planter, Seed	J. T. Carr	161,664	Apr. 6, 1875	67	24	7	578
Planter, Seed	J. G. Garner	159,087	Jan. 26, 1875	726	240	7	146

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Planter, Seed.....	A. M. Kanouse.....	168,259	Sept. 28, 1875	840	268	4	548
Planter, Seed.....	W. Nevins.....	169,725	Nov. 9, 1875	405	128	8	796
Planter, Seed.....	H. E. Pennypacker.....	160,707	Mar. 9, 1875	416	138	7	417
Planter, Seed.....	W. Post and M. Colbert.....	161,438	Mar. 30, 1875	1133	365	7	535
Planter, Seed.....	E. M. Patter.....	159,840	Feb. 16, 1875	580	192	7	277
Planter, Seed.....	W. C. Reynolds.....	158,440	Jan. 5, 1875	74	26	7	20
Planter, Seed.....	J. W. Simpson.....	169,122	Oct. 26, 1875	793	257	8	699
Planter, Seed.....	U. T. Stewart.....	161,292	Mar. 23, 1875	979	320	7	507
Planter, Seed.....	J. F. Warner.....	158,550	Jan. 5, 1875	172	59	7	33
Planter, Seed.....	F. O. Wenell.....	167,206	Aug. 31, 1875	1018	316	8	375
Planters, Wheel-scraper for.....	J. C. Barlow.....	158,885	Jan. 19, 1875	510	171	7	110
Plastering, Corner-bead for.....	G. P. Atherton.....	168,207	Sept. 28, 1875	795	253	8	542
Plastering safety-plates.....	G. A. Thurston.....	169,128	Oct. 26, 1875	799	259	8	700
Plastic compound for making ornamental articles.....	F. B. Duffey.....	168,086	Sept. 23, 1875	680	.....	8	526
Plate and cutter, Combined pie.....	W. H. Manning.....	161,890	Apr. 13, 1875	276	93	7	620
Plate-lifter.....	D. M. Skinner.....	162,199	Apr. 20, 1875	564	185	7	663
Plate lifter and toaster.....	J. A. Rakestraw.....	163,105	May 11, 1875	361	117	7	802
Plate, Luncheon.....	J. W. Boteler.....	163,355	May 18, 1875	611	195	7	850
Plate-rack.....	W. R. P. Cross.....	169,962	Nov. 16, 1875	643	201	8	833
Platform: See Car-platform. Window-platform. Stove-platform.							
Platform-elevator.....	G. C. Howard.....	170,087	Nov. 16, 1875	758	240	8	849
Pliers, Cutting.....	J. G. Foreman.....	163,175	May 11, 1875	425	138	7	810
Pliers, Parallel.....	H. R. Russell.....	168,924	Oct. 19, 1875	588	194	8	664
Plow.....	W. Adams.....	160,989	Mar. 23, 1875	695	229	7	471
Plow.....	W. K. Allen.....	165,652	July 20, 1875	522	159	8	105
Plow.....	S. S. Aughe.....	159,377	Feb. 2, 1875	121	42	7	201
Plow.....	F. R. Bell.....	163,352	May 18, 1875	610	194	7	850
Plow.....	B. S. Benson.....	162,015	Apr. 15, 1875	379	127	7	633
Plow.....	W. Bradford.....	160,385	Mar. 2, 1875	112	41	7	365
Plow.....	B. C. Bradley.....	164,134	June 8, 1875	282	96	7	980
Plow.....	T. E. C. Brinley.....	170,516	Nov. 30, 1875	1187	374	8	923
Plow.....	T. M. Brous.....	166,586	Aug. 10, 1875	384	119	8	261
Plow.....	C. L. Carter.....	162,151	Apr. 20, 1875	520	171	7	658
Plow.....	C. J. Cox.....	159,905	Feb. 16, 1875	644	213	7	285
Plow.....	W. H. Daniels.....	168,235	Sept. 28, 1875	817	260	8	545
Plow.....	C. R. Dugdale and D. Breed.....	160,086	Feb. 23, 1875	825	271	7	317
Plow.....	A. B. Farquhar.....	158,580	Jan. 1, 1875	216	74	7	54
Plow.....	I. Freeman.....	167,756	Sept. 14, 1875	349	111	8	463
Plow.....	I. Freeman.....	169,799	Nov. 9, 1875	486	153	8	805
Plow.....	H. Gale.....	159,174	Jan. 26, 1875	802	263	7	156
Plow.....	O. J. Glasoe.....	164,727	June 22, 1875	848	275	7	1073
Plow.....	A. Griggs.....	164,730	June 22, 1875	851	276	7	1073
Plow.....	A. Hall.....	171,477	Dec. 28, 1875	815	267	8	1082
Plow.....	A. Hempe.....	159,321	Feb. 2, 1875	78	26	7	184
Plow.....	A. Hempe.....	160,094	Feb. 23, 1875	831	273	7	318
Plow.....	C. A. Hege.....	162,549	Apr. 27, 1875	912	292	7	715
Plow.....	H. H. Hubley.....	171,022	Dec. 14, 1875	347	116	8	1004
Plow.....	J. A. Johnson.....	159,267	Feb. 2, 1875	24	8	7	188
Plow.....	H. Krog, sr.....	166,281	Aug. 3, 1875	90	27	8	212
Plow.....	J. Lane.....	162,240	Apr. 20, 1875	604	198	7	668
Plow.....	W. S. Lawrence.....	165,451	July 13, 1875	322	94	8	59
Plow.....	T. S. Macomber.....	159,338	Feb. 2, 1875	91	31	7	196
Plow.....	W. H. McCune.....	169,716	Nov. 9, 1875	396	124	8	794
Plow.....	T. J. Meroney.....	162,760	May 4, 1875	22	8	7	750
Plow.....	J. Middleditch.....	166,127	July 27, 1875	987	305	8	181
Plow.....	J. O. Minor.....	160,836	Mar. 16, 1875	555	180	7	442
Plow.....	C. Myers.....	164,471	June 15, 1875	611	198	7	1032
Plow.....	J. B. Norris, M. M. Bowers, and W. C. Dimmock.....	164,201	June 8, 1875	338	116	7	988
Plow.....	H. Olson.....	164,025	June 1, 1875	156	55	7	952
Plow.....	M. Ormond.....	167,686	Sept. 14, 1875	282	89	8	453
Plow.....	J. Phillips.....	170,764	Dec. 7, 1875	102	32	8	964
Plow.....	N. G. Pinney.....	171,166	Dec. 14, 1875	487	161	8	1022
Plow.....	A. Rigby.....	159,967	Feb. 16, 1875	697	232	7	292
Plow.....	G. Ringen.....	165,179	July 6, 1875	37	10	8	13
Plow.....	J. R. Sample.....	165,876	July 20, 1875	733	224	8	124
Plow.....	O. P. Sanford.....	165,877	July 20, 1875	734	224	8	134
Plow.....	J. Sewell.....	171,435	Dec. 21, 1875	758	249	8	1066
Plow.....	D. B. Smith.....	162,962	May 4, 1875	213	68	7	775
Plow.....	W. S. Wadsworth.....	166,734	Aug. 17, 1875	543	167	8	292
Plow.....	L. B. White.....	164,951	June 29, 1875	1073	346	7	1108
Plow.....	L. B. White.....	164,952	June 29, 1875	1075	346	7	1109
Plow.....	G. and T. Wiard.....	165,903	July 20, 1875	760	232	8	137
Plow.....	J. Worrell.....	171,205	Dec. 14, 1875	529	175	8	1028
Plow.....	J. Yocum.....	158,561	Jan. 5, 1875	182	63	7	34
Plow.....	J. P. Zeller.....	163,563	May 18, 1875	801	254	7	875
Plow-adjuster.....	S. T. Ferguson.....	159,913	Feb. 16, 1875	649	215	7	286
Plow and cultivator, Combined gang.....	W. Clements.....	161,592	Apr. 6, 1875	5	2	7	569
Plow attachment.....	G. M. Todd.....	169,313	Oct. 26, 1875	967	313	8	723
Plow attachment.....	E. N. Yardley.....	162,210	Apr. 20, 1875	575	188	7	665
Plow-beam.....	C. Kimplen.....	158,642	Jan. 12, 1875	272	92	7	62
Plow-beam, Metal.....	M. McDowell.....	158,725	Jan. 12, 1875	346	117	7	72
Plow-cap-making machine.....	A. Marland and W. J. Lewis.....	162,839	May 4, 1875	93	31	7	759
Plow-carriage.....	R. Coreth.....	163,464	May 18, 1875	704	{ 224 } { 225 }	7	863
Plow-carriage.....	D. W. Ralston.....	160,230	Feb. 23, 1875	945	311	7	335
Plow clevis, Side-hill.....	F. C. Merrill.....	166,935	Aug. 24, 1875	738	229	8	329
Plow-colt cleaner.....	T. Wallis and O. J. Case.....	164,784	June 22, 1875	896	292	7	1079
Plow, Corn.....	A. Binder.....	166,333	Aug. 3, 1875	135	42	8	218
Plow, Corn.....	L. G. Clawson.....	162,798	May 4, 1875	60	19	7	755
Plow, Ditching.....	A. L. Harned.....	161,509	Mar. 30, 1875	1206	387	7	544
Plow, Double.....	S. D. Williamson.....	170,146	Nov. 16, 1875	814	{ 256 } { 257 }	8	856
Plow furrow-gage.....	B. B. Hawes.....	170,256	Nov. 23, 1875	937	292	8	880

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Plow, Gang.....	E. A. Beers.....	166,063	July 27, 1875	921	285	8	171
Plow, Gang.....	F. A. Hill.....	170,262	Nov. 23, 1875	942	294	8	881
Plow, Gang.....	J. B. Hunter.....	160,099	Feb. 23, 1875	834	274	7	319
Plow, Gang.....	D. Kendig.....	168,646	Oct. 11, 1875	328	107	8	618
Plow, Gang.....	D. A. Manuel.....	166,536	Aug. 10, 1875	342	105	8	255
Plow, Gang.....	J. R. McCormick.....	171,299	Dec. 21, 1875	637	209	8	1050
Plow, Gang.....	G. Moore.....	158,859	Jan. 19, 1875	487	164	7	107
Plow, Gang.....	C. Myers.....	158,387	Jan. 5, 1875	31	11	7	13
Plow, Gang.....	T. M. Nichol.....	162,094	Apr. 13, 1875	447	149	7	642
Plow, Gang.....	H. Opp.....	165,497	July 13, 1875	364	108	8	66
Plow, Gang.....	E. P. Pulliam.....	165,866	July 20, 1875	797	221	8	132
Plow, Gang.....	L. O. Rockwood.....	162,254	Apr. 20, 1875	616	{ 200 201 }	7	670
Plow, Gang.....	S. S. Scheumack.....	161,284	Mar. 23, 1875	973	318	7	506
Plow, Gang.....	T. M. Shaw.....	170,778	Dec. 7, 1875	114	36	8	965
Plow, Gang.....	E. J. Sprague.....	162,709	Apr. 27, 1875	1062	{ 338 339 }	7	733
Plow, Gang.....	J. A. Sutherland.....	162,115	Apr. 13, 1875	470	156	7	644
Plow harrow-attachment.....	P. Jacobus and D. R. Ambrose.....	159,416	Feb. 2, 1875	157	53	7	206
Plow-iron.....	G. Moore and G. Curkendall.....	164,022	June 1, 1875	154	55	7	952
Plow land-sides, Die for making.....	C. H. Thompson.....	164,664	June 22, 1875	787	258	7	1065
Plow mold-boards, Making.....	J. Holmes.....	165,581	July 13, 1875	440	133	8	78
Plow-point.....	T. S. Urie.....	171,068	Dec. 14, 1875	391	129	8	1009
Plow-point, Reversible.....	M. M. Bowers.....	165,703	July 20, 1875	567	173	8	111
Plow-points, Casting.....	G. Wiard.....	165,046	June 29, 1875	1152	371	7	1119
Plow, Reversible.....	M. R. Hubbell.....	168,157	Sept. 28, 1875	752	237	8	536
Plow, Reversible.....	J. McCabe.....	164,014	June 1, 1875	146	52	7	951
Plow riding-attachment.....	J. T. Wells.....	161,645	Apr. 6, 1875	49	19	7	576
Plow, Rotary.....	W. H. Foye.....	158,482	Jan. 5, 1875	115	39	7	25
Plow, Rotary gang.....	J. K. Underwood.....	169,499	Nov. 2, 1875	157	52	8	756
Plow row-gage.....	W. E. Stanley.....	163,701	May 25, 1875	934	297	7	900
Plow, Side-hill.....	R. I. Knapp.....	167,402	Sept. 7, 1875	21	6	8	409
Plow, Side-hill.....	C. H. Stratton.....	160,625	Mar. 9, 1875	341	115	7	407
Plow, Snow.....	E. G. Graves.....	165,563	July 13, 1875	423	128	8	75
Plow, Snow.....	C. Marshall.....	163,501	May 18, 1875	745	237	7	867
Plow, Snow.....	S. B. Miner.....	167,775	Sept. 14, 1875	367	117	8	465
Plow, Snow.....	T. Reeder and A. Fetterhoff.....	165,177	July 6, 1875	35	10	8	13
Plow, Snow.....	A. J. Smith.....	166,649	Aug. 10, 1875	442	136	8	270
Plow, Snow.....	H. Twitchell and G. E. Parsons.....	159,866	Feb. 16, 1875	606	200	7	280
Plow-standard.....	H. Borger.....	161,095	Mar. 23, 1875	794	{ 260 261 }	7	483
Plow-standard fastening.....	G. B. Birmingham.....	161,745	Apr. 6, 1875	135	46	7	588
Plow, Steam.....	D. Beaumont.....	162,884	May 4, 1875	133	44	7	764
Plow, Steam.....	B. S. Benson.....	171,595	Dec. 28, 1875	926	303	8	1098
Plow, Steam.....	J. Fogarty.....	160,780	Mar. 16, 1875	487	{ 158 159 }	7	433
Plow, Steam.....	T. C. Stark.....	166,230	Aug. 3, 1875	41	13	8	205
Plow, Stump.....	V. M. Chafee.....	158,468	Jan. 5, 1875	104	35	7	23
Plow, Sulky.....	J. C. Carns.....	159,642	Feb. 9, 1875	374	124	7	244
Plow, Sulky.....	J. Fay.....	161,770	Apr. 6, 1875	154	53	7	591
Plow, Sulky.....	R. R. Fenner.....	167,159	Aug. 31, 1875	980	304	8	370
Plow, Sulky.....	G. Moor.....	170,487	Nov. 30, 1875	1160	365	8	920
Plow, Sulky.....	G. Moore.....	164,929	June 29, 1875	1056	340	7	1106
Plow, Sulky.....	O. Osborn.....	162,942	May 4, 1875	191	63	7	772
Plow, Sulky.....	W. B. Quick.....	160,280	Mar. 2, 1875	21	9	7	352
Plow, Sulky.....	H. Richardson.....	171,427	Dec. 21, 1875	752	247	8	1065
Plow, Sulky.....	E. Robertson.....	161,440	Mar. 30, 1875	1134	366	7	535
Plow, Sulky.....	E. W. Russell.....	167,474	Sept. 7, 1875	81	25	8	418
Plow, Sulky.....	L. W. True.....	162,126	Apr. 13, 1875	481	{ 158 159 }	7	645
Plow, Sulky.....	S. F. Woodworth.....	168,595	Oct. 11, 1875	278	90	8	611
Plow sulky attachment.....	G. Van Winkle.....	159,779	Feb. 16, 1875	525	175	7	270
Plow, Swivel.....	J. Hapgood.....	163,589	May 25, 1875	841	{ 265 266 }	7	888
Plow, Vineyard.....	M. Ross.....	165,258	July 6, 1875	107	32	8	23
Plow-wheel.....	I. Allen.....	161,193	Mar. 23, 1875	879	288	7	494
Plow, Wheel.....	J. Flow.....	167,887	Sept. 21, 1875	481	152	8	490
Plow, Wheel.....	J. Keys and J. R. De Mier.....	163,595	May 25, 1875	847	{ 267 268 }	7	888
Plow, Wheel.....	P. Prawl and F. H. Wemple.....	158,735	Jan. 12, 1875	333	120	7	74
Plowing and seeding machine.....	D. McVaw.....	170,754	Dec. 7, 1875	92	29, 30	8	963
Plowshares and blanks therefor, Die for upsetting the ends of.....	W. M. Watson.....	169,213	Oct. 26, 1875	865	282	8	710
Pneumatic dispatch apparatus.....	O. B. Dowd.....	163,366	May 18, 1875	620	198	7	852
Pneumatic engine.....	P. M. Connolly.....	164,809	June 22, 1875	923	299	7	1082
Pneumatic machine.....	G. A. Hagermann.....	165,569	July 13, 1875	430	130	8	76
Pocket-book.....	C. Arms.....	165,654	July 20, 1875	524	160	8	105
Pocket-book.....	C. Lieb.....	158,955	Jan. 19, 1875	583	194	7	119
Pocket-book.....	S. Lyon.....	167,916	Sept. 21, 1875	502	159	8	493
Pocket-book.....	D. K. Osborn.....	169,470	Nov. 2, 1875	135	44	8	753
Pocket-book.....	G. Strauss.....	160,126	Feb. 23, 1875	856	283	7	322
Pocket-book clasp.....	L. Messer.....	165,110	June 29, 1875	1210	389	7	1127
Pocket-book fastener.....	L. Pralar.....	167,931	Sept. 21, 1875	512	163	8	495
Pocket-book fastening.....	L. Messer.....	163,794	May 25, 1875	1013	321	7	911
Pocket-book fastening.....	M. Rubens.....	161,159	Mar. 23, 1875	852	278	7	491
Pocket-book frame.....	B. M. J. Blank.....	165,263	July 6, 1875	61	17	8	17
Pocket-book lock.....	B. M. J. Blank.....	161,094	Mar. 23, 1875	794	260	7	483
Pocket-book lock.....	J. Hannan and S. Bendit.....	167,663	Sept. 14, 1875	262	82	8	450
Pocket-book lock.....	F. Kinn.....	165,239	July 6, 1875	90	27	8	21
Pocket-book safety attachment.....	G. S. Knapp.....	163,017	May 11, 1875	278	90	7	791
Pocket-book safety attachment.....	T. Potter.....	165,864	July 20, 1875	726	221	8	132
Pocket-book safety attachment.....	E. G. Wheeler.....	160,630	Mar. 9, 1875	345	117	7	407
Pocket-fastening.....	D. Neustadter.....	162,300	Apr. 20, 1875	656	214	7	675
Pocket-knife.....	C. P. Benedict.....	162,265	Apr. 20, 1875	628	204	7	671

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Pocket-knife, Revolving	W. Staniforth	159,286	Feb. 2, 1875	39	14	7	190
Pocket-knives, Die for manufacturing bolsters for	W. H. and G. W. Miller	164,320	June 8, 1875	456	151	7	1003
Pocket, Safety	J. C. Iden	161,617	Apr. 6, 1875	24	10	7	572
Pocket safety attachment	D. Goldy	171,372	Dec. 21, 1875	699	230	8	1059
Pocket-tool	F. R. Woodward	159,134	Ja. 26, 1875	767	252	7	151
Poison, Vessel for containing	W. M. Caterson	164,265	June 8, 1875	403	135	7	996
Poke, Animal	S. N. Gustin	167,097	Aug. 24, 1875	899	280	8	351
Poke, Animal	J. F. Palmer	163,240	May 11, 1875	484	157	7	817
Poke, Animal	H. Waton	166,968	Aug. 17, 1875	700	217	8	315
Poke, Bow for animal	E. G. Beckwith and G. R. Brown	170,511	Nov. 30, 1875	1184	373	8	923
Poker and tongs, Combined	I. J. Conklin	160,006	Feb. 23, 1875	756	250	7	308
Poker and tongs, Combined	J. C. Libe	162,080	Apr. 13, 1875	435	145	7	640
Pole and shaft, Vehicle	G. W. Eddy	168,464	Oct. 5, 1875	127	44	8	583
Pole-bending machine, Carriage	A. G. Snyder	165,887	July 20, 1875	745	228	8	135
Pole-cap blanks, Roll for rolling	W. J. Lewis	169,646	Nov. 9, 1875	326	103	8	785
Pole, Folding and sliding ten-foot	S. W. Blatchly	164,133	June 8, 1875	281	96	7	980
Pole tip, Vehicle	E. Grimshaw and W. F. Osgood	163,768	May 25, 1875	991	314	7	907
Poles, Iron tip for vehicle	J. A. Ellis	159,503	Feb. 9, 1875	261	85	7	228
Polishing and grinding wheels, Elastic clamp for	B. Bannister, J. C. Perkins, and W. H. Stoddard	158,617	Jan. 12, 1875	251	85	7	59
Polishing-machine	B. E. Sperry	167,858	Sept. 21, 1875	457	144	8	486
Polishing-machine feeding device	J. A. Dayton	165,074	June 29, 1875	1177	379	7	1123
Polishing or sad iron	W. B. Sanders	164,597	June 15, 1875	715	233	7	1047
Polishing-wheel	H. Hard	164,732	June 22, 1875	852	276	7	1073
Portable boiler	G. F. Johnson and D. Wilde	164,564	June 15, 1875	688	223	7	1042
Portable engine	J. Uhr	168,117	Sept. 28, 1875	711	224	8	529
Portable-engine boiler	J. Enright	165,810	July 20, 1875	668	204	8	125
Portable-engine carriage	C. M. Miller	165,854	July 20, 1875	716	218	8	131
Portable furnace	E. H. Lord and B. D. Evans	164,312	June 8, 1875	448	148	7	1002
Portable steam-engine	M. McKaig and W. J. Muncaster	166,541	Aug. 10, 1875	345	106	8	256
Portfolio	J. W. Eastwood	161,872	Apr. 13, 1875	261	87	7	618
Portfolio-stand	D. J. Stein	167,584	Sept. 7, 1875	182	56	8	431
Post:							
See Fence-post.	Rudder-post.						
Iron post.							
Post-hole borer	O. Love	166,392	Aug. 3, 1875	195	58	8	221
Post-hole digger	W. M. Ryan	158,609	Jan. 12, 1875	243	82	7	58
Posts, Metal cap for	J. Davenport	164,979	June 29, 1875	1636	353	7	1112
Postal card	A. Petersohn	163,520	May 18, 1875	767	243	7	870
Pot:							
See Boiling-pot.	Marking-pot.						
Coffee-pot.	Sheet-metal pot.						
Dental pot.	Stove fire-pot.						
Engine dash-pot.	Tea-pot.						
Flower-pot.	Tea and coffee pot.						
Glue-pot.							
Pot and kettle	D. M. McLean	162,847	May 4, 1875	100	33	7	760
Pot-lid	A. E. Colgrove	160,163	Feb. 23, 1875	889	293	7	327
Pot-lid	L. W. Turner	168,356	Oct. 5, 1875	33	13	8	569
Potato-digger	W. E. Babcock	167,148	Aug. 31, 1875	967	301	8	369
Potato-digger	D. Botsford	167,296	Aug. 31, 1875	1094	343	8	386
Potato-digger	L. A. Brockett	158,898	Jan. 19, 1875	526	176	7	112
Potato-digger	G. W. Haag	165,566	July 13, 1875	426	129	8	76
Potato-digger	R. Haydermann and A. Klinkmann	171,224	Dec. 21, 1875	570	187	8	1041
Potato-digger	H. W. King	161,520	Mar. 30, 1875	1216	391	7	546
Potato-digger	M. W. Knox	160,776	Mar. 16, 1875	504	164	7	435
Potato-digger	J. H. Louch	165,342	July 6, 1875	181	55	8	34
Potato-digger	W. P. Martyn	170,387	Nov. 23, 1875	1052	330	8	896
Potato-digger	J. J. McKinnon	162,489	Apr. 27, 1875	862	277	7	709
Potato-digger	D. J. Roush	169,483	Nov. 2, 1875	145	47	8	754
Potato-digger	N. Rugg	170,452	Nov. 30, 1875	1126	355	8	915
Potato-digger	E. Vandever, jr	164,236	June 8, 1875	374	127	7	992
Potato-digger	O. F. Warren	169,870	Nov. 9, 1875	552	173	8	813
Potato-digger	T. Head	160,593	Mar. 9, 1875	314	106	7	402
Potato-digger	G. H. Zane	168,702	Oct. 11, 1875	373	122	8	625
Potato-digger	G. H. Zane and S. A. Kennedy	169,395	Nov. 2, 1875	71	21	8	744
Potato-digger	A. J. Davis	161,011	Mar. 23, 1875	713	235	7	473
Potato-digger	R. Crane, jr	171,603	Dec. 28, 1875	932	305	8	1099
Pottery-ware dishes	J. Moses	160,539	Mar. 9, 1875	368	91	7	396
Pouncing-block	H. G. Disbrow	160,753	Mar. 16, 1875	479	156	7	432
Powder:							
See Ink-powder.	Insect-powder.						
Powder and shot charger	T. Hick and G. W. Weatherwax	163,196	May 11, 1875	446	144	7	812
Powder-can	F. Egge	171,364	Dec. 21, 1875	692	228	8	1058
Power:							
See Animal-power.	Motive-power.						
Cotton-gin power.	Spring-power.						
Horse-power.	Tide-power.						
Level power.	Wave-power.						
Mechanical power.	Wind-power.						
Power, Chain and wheel for transmitting	J. H. Whitney	163,832	May 25, 1875	1046	331	7	915
Power, Device for transmitting	G. J. Tschoulin	163,281	May 11, 1875	525	170	7	823
Power, Device for transmitting	J. W. Woodruff	168,701	Oct. 11, 1875	372	122	8	625
Power-press	J. E. Coffin	165,306	July 6, 1875	147	45	8	29
Power-press	B. G. Martin	170,179	Nov. 23, 1875	867	271	8	71
Power-press	A. H. Merriman	170,101	Nov. 16, 1875	771	244	8	851
Power regulator, Spring	O. Collier	167,435	Sept. 7, 1875	51	15	8	413
Preserve-can holder	C. D. How	166,380	Aug. 3, 1875	182	55	8	924
Preserved fruit, Preparing	J. F. Bassford	170,700	Dec. 7, 1875	43		8	956
Preserver, Food	C. Brown	164,964	June 29, 1875	1084	349	7	1110
Preserving-apparatus	J. P. Schmitz	160,472	Mar. 2, 1875	192	66	7	376
Preserving-can top	T. H. Hamilton	163,484	May 18, 1875	727	231	7	866
Preserving effervescent liquids	J. G. L. Boettcher	161,797	June 22, 1875	967	295	7	1081

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Preserving fish, Compound for.....	H. Sellmann, H. Reessing, and J. Wolff.	166,308	Aug. 3, 1875	114		8	215
Preserving food, Composition for.....	H. Gahn	161,944	Apr. 13, 1875	324	.....	7	626
Preserving food, Process of.....	D. Snedeker	161,072	Mar. 23, 1875	768	.....	7	480
Preserving fruit, Process for.....	F. H. L. Sacc	169,591	Nov. 2, 1875	254	.....	8	768
Preserving jar, Fruit.....	T. J. Price	171,044	Dec. 14, 1875	364	121	8	1006
Preserving meat.....	E. A. Duncan	162,539	Apr. 27, 1875	904	.....	7	714
Preserving meat.....	F. H. L. Sacc	169,592	Nov. 2, 1875	254	.....	8	768
Preserving meat.....	F. H. L. C. Sacc	169,849	Nov. 9, 1875	533	.....	8	811
Preserving meat, fish, and vegetables, Apparatus for.....	A. H. Tait	162,119	Apr. 13, 1875	476	157	7	645
Preserving meat, Process of.....	J. A. Wilson	168,073	Sept. 21, 1875	655	.....	8	515
Press:							
See Baling-press.	Hay-press.						
Brick-press.	Hay and cotton press.						
Brick and soap press.	Hay and straw press.						
Broom-press.	Hay, cotton, and wool press.						
Cheese-press.	Hydraulic press.						
Cider-press.	Jelly-press.						
Cider and wine press.	Jeweler's screw-press.						
Cigar-press.	Lard and cheese press.						
Cigar-mold press.	Lemon-press.						
Clay-press.	Lever-press.						
Cloth-press.	Lever and toggle press.						
Coal-agglomerating press.	Lithographic press.						
Copying-press.	Offal-press.						
Cotton-press.	Oil and other press.						
Cotton and hay press.	Perfecting-press.						
Cotton-bale press.	Power-press.						
Counter-press.	Printing-press.						
Cutting and punching press.	Punch-press.						
Drop-press.	Punching-press.						
Fruit-press.	Rotary press.						
Fruit and jelly press.	Screw-press.						
Glass-press.	Screw and toggle-lever press.						
Harness-pad press.	Soap-press.						
Press.....	G. B. Boomer	170,467	Nov. 30, 1875	1141	{ 359 } 360	8	917
Press.....	A. W. Harrington	165,327	July 6, 1875	168	51	8	32
Press.....	C. H. Hersey	171,282	Dec. 21, 1875	623	204	8	1048
Press.....	T. J. Jenne	160,200	Feb. 23, 1875	918	302	7	331
Press.....	J. P. Kefauver	165,491	July 13, 1875	360	106	8	65
Press.....	G. H. Reynolds	169,588	Nov. 2, 1875	248	81	8	768
Press.....	C. S. Swan	160,626	Mar. 9, 1875	342	116	7	407
Press.....	E. Van Gosen	164,237	June 8, 1875	375	127	7	992
Presser-feet to bars, Device for attaching.....	J. J. Schneider	158,744	Jan. 12, 1875	360	123	7	75
Pressing, stowing, &c., jack.....	M. J. Walsh	169,319	Oct. 26, 1875	972	315	8	724
Pressure-gage.....	J. Powers	171,317	Dec. 21, 1875	651	213	8	1052
Pressure-gage and heat-regulator, Combined.....	T. Van Kannel and L. D. Towsley	169,745	Nov. 9, 1875	429	136	8	798
Pressure-gage, Steam.....	J. Burden	170,706	Dec. 7, 1875	49	14, 15	8	957
Pressure-regulator.....	J. Taylor	168,807	Oct. 11, 1875	466	152	8	638
Pressure-regulator, Water-pipe.....	F. Steele	166,567	Aug. 10, 1875	369	113	8	259
Pressure-regulator with dash-pots.....	P. Ball and B. Fitts	163,721	May 25, 1875	952	302	7	902
Pressure-regulator with safety-valve.....	P. Ball and B. Fitts	163,720	May 25, 1875	950	302	7	902
Price-indicator.....	F. Sumpf	163,542	May 18, 1875	784	248	7	873
Printed sheets, Machine for calendering.....	H. J. Gill	163,180	May 11, 1875	429	140	7	811
Printed sheets, Machine for calendering.....	G. and W. Kivlan and G. Wood	161,242	Mar. 23, 1875	929	303	7	501
Printer's galley.....	A. T. DePuy	160,654	Mar. 9, 1875	367	124	7	410
Printer's galley.....	H. H. McWilliams	163,677	May 25, 1875	914	290	7	897
Printer's inking-rolls, Varnish or coating for.....	B. F. Allen	162,514	Apr. 27, 1875	883	.....	7	712
Printer's lead and rule cutter.....	J. A. Stanion	163,540	May 18, 1875	782	248	7	872
Printer's lead and rule, Machine for mitering.....	H. W. Henley	169,638	Nov. 9, 1875	318	101	8	784
Printer's lead-cutting machine.....	W. Hawkins and W. F. Dodge	163,998	June 1, 1875	133	47	7	949
Printer's lead-cutting machine.....	J. A. T. Overend	165,859	July 20, 1875	721	220	8	131
Printer's lead-cutting machine.....	H. J. Stone	171,248	Dec. 21, 1875	592	194	8	1044
Printer's leads, Device for manufacturing.....	L. W. Tracy	165,387	July 6, 1875	232	70	8	40
Printer's quoin.....	B. F. Allen	158,351	Jan. 5, 1875	1	1	7	9
Printer's quoin.....	A. J. O'Shea	167,780	Sept. 14, 1875	371	118	8	466
Printer's rollers, Machine for washing.....	T. Muir	163,097	May 11, 1875	353	115	7	801
Printer's shooting-stick.....	J. H. Frey	158,792	Jan. 19, 1875	427	142	7	99
Printer's side-stick and quoin.....	W. Gilbert	164,543	June 15, 1875	669	217	7	1040
Printing in colors, Process for.....	W. H. Holmes	164,647	June 22, 1875	774	.....	7	1063
Printing instrument, Electro-mechanical.....	H. R. M. J. Hansen and C. P. Jurgenzen	163,190	May 11, 1875	438	142	7	812
Printing, Letter-press map.....	C. H. Waite	158,611	Jan. 12, 1875	244	82	7	58
Printing machine, Block.....	F. Walton	167,283	Aug. 31, 1875	1081	{ 338 } 339 340	8	384
Printing machine, Spool.....	I. and G. Dimock	159,651	Feb. 9, 1875	382	127	7	245
Printing machine, Ticket.....	J. Anderson	159,293	Feb. 2, 1875	45	17	7	191
Printing on glass, Elastic underlay for.....	J. L. Wells	170,136	Nov. 16, 1875	801	253	8	855
Printing, Preparing plates for.....	A. F. Eckhardt	167,158	Aug. 31, 1875	979	.....	8	370
Printing-press.....	J. Cook and W. Fosket	166,675	Aug. 10, 1875	465	143	8	273
Printing-press.....	C. B. Cottrell	167,227	Aug. 31, 1875	1036	{ 321 } 322	8	378
Printing-press.....	F. W. Griffith and G. P. Byrne	168,635	Oct. 11, 1875	318	{ 103 } 104	8	617
Printing-press.....	W. E. Gump	159,819	Feb. 16, 1875	562	187	7	274
Printing-press.....	J. Hinchcliff	162,650	Apr. 27, 1875	997	320	7	726
Printing-press.....	R. M. Hoe	162,651	Apr. 27, 1875	998	320	7	726
Printing-press.....	R. M. Hoe	162,652	Apr. 27, 1875	999	321	7	726
Printing-press.....	W. P. Kidder	160,333	Mar. 2, 1875	68	24	7	358
Printing-press.....	J. C. Mac Donald and J. Calverley	168,511	Oct. 5, 1875	173	56	8	589

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Printing-press.....	M. A. Pendleton.....	165, 611	July 13, 1875	466	143	8	81
Printing-press.....	A. E. Redstone.....	167, 787	Sept. 14, 1875	376	120	8	466
Printing-press.....	C. Wells.....	164, 499	June 15, 1875	634	205	7	1035
Printing-press.....	C. Wells.....	169, 321	Oct. 26, 1875	974	316	8	724
Printing-press.....	W. F. Wyman.....	167, 379	Aug. 31, 1875	1168	368	8	397
Printing-press delivering apparatus.....	J. W. Kellberg.....	167, 840	Sept. 21, 1875	437	139	8	483
Printing-press delivering apparatus.....	J. W. Kellberg.....	167, 841	Sept. 21, 1875	438	140	8	484
Printing-press delivering apparatus.....	T. J. Mayall and R. W. Hartnett.....	159, 947	Feb. 16, 1875	679	225	7	290
Printing-press delivery mechanism.....	C. B. Coitrell.....	170, 061	Nov. 16, 1875	730	232	8	846
Printing-press feed-gage.....	S. D. Tucker.....	168, 685	Oct. 11, 1875	357	117	8	623
Printing-press feed-gage.....	S. D. Tucker.....	168, 686	Oct. 11, 1875	358	117	8	623
Printing-press feed-gage.....	J. Turner.....	162, 207	Apr. 20, 1875	571	187	7	664
Printing-press feed-guide.....	E. L. Megill.....	161, 049	Mar. 23, 1875	746	246	7	477
Printing-press feed-guide.....	J. Reed.....	166, 410	Aug. 3, 1875	213	64	8	229
Printing-press for dating letters and canceling stamps, Rotary.....	T. G. Palmer and H. F. Clark.....	160, 947	Mar. 16, 1875	650	212	7	455
Printing-press inking apparatus.....	C. Potter, jr., and J. F. Hubbard.....	171, 243	Dec. 21, 1875	587	192	8	1043
Printing-press, Oscillating.....	J. L. De Huff.....	169, 526	Nov. 2, 1875	182	61, 62	8	760
Printing-press, Oscillating.....	W. C. Evans.....	169, 532	Nov. 2, 1875	186	63	8	760
Printing-press, Oscillating.....	J. Watson and J. L. De Huff.....	169, 605	Nov. 2, 1875	365	86, 87	8	770
Printing-press perforating attachment.....	J. C. Forman.....	170, 724	Dec. 7, 1875	63	19, 20	8	959
Printing press, Plate.....	R. Neale.....	162, 677	Apr. 27, 1875	1028	{ 328 } 329	7	729
Printing press, Plate.....	J. Wilson.....	161, 370	Mar. 30, 1875	1068	347	7	527
Printing-press registering apparatus.....	S. Scholfield and C. E. Baker.....	171, 534	Dec. 28, 1875	868	234	8	1090
Printing-press, Rotary.....	C. Kahler.....	165, 838	July 20, 1875	701	213	8	128
Printing-press sheet-delivery apparatus.....	A. E. Sardo.....	171, 178	Dec. 14, 1875	496	164	8	1023
Printing-presses, Bearing for distributing rollers of.....	C. Potter, jr., and J. F. Hubbard.....	169, 191	Oct. 26, 1875	849	277	8	708
Printing-presses, Feed-gage for cylinder.....	H. Barth.....	162, 993	May 11, 1875	258	83	7	789
Printing-presses, Guide-roller for web.....	J. W. Kellberg.....	163, 207	May 11, 1875	455	147	7	814
Printing-presses, &c., Treadle mechanism for.....	G. W. Prouty.....	164, 212	June 8, 1875	349	{ 119 } 120	7	989
Printing, Process of preparing gelatine plates for.....	E. Edwards.....	159, 166	Jan. 26, 1875	794	.....	7	155
Printing, Process of producing gelatine relief-plates for.....	W. H. Mumler.....	163, 514	May 18, 1875	758	.....	7	869
Printing, Process of producing plates for.....	L. H. Miller.....	164, 581	June 15, 1875	702	.....	7	1045
Printing, &c., relief-plate.....	B. B. Huntoon.....	163, 204	May 11, 1875	453	.....	7	813
Printing surfaces.....	J. Friedlaender and P. K. Moeller.....	160, 177	Feb. 23, 1875	899	.....	7	328
Prism.....	A. K. Eaton.....	160, 756	Mar. 16, 1875	483	157	7	433
Prison, &c., alarm.....	J. B. Cook and J. W. Heath.....	168, 971	Oct. 19, 1875	627	208	8	670
Prison-doors, Operating.....	R. Richter.....	170, 400	Nov. 23, 1875	1065	335	8	898
Prisons, Construction of.....	J. B. Cook and J. W. Heath.....	168, 232	Sept. 28, 1875	814	{ 258 } 259	8	544
Prisons, Construction of.....	J. B. Cook and J. W. Heath.....	168, 455	Oct. 5, 1875	119	41	8	582
Prisons, Construction of.....	A. B. Mullett.....	158, 966	Jan. 19, 1875	592	{ 196 } 197	7	120
Prisons, &c., Ventilating.....	P. Mihan.....	171, 033	Dec. 14, 1875	355	118	8	1005
Privy.....	G. Schumacher.....	170, 967	Dec. 14, 1875	301	100	8	988
Privy-vaults, Machine for cleaning.....	S. R. Scharf.....	158, 743	Jan. 12, 1875	359	122	7	74
Projectile for rifled ordnance.....	W. H. Van Gieson.....	161, 579	Mar. 30, 1875	1271	409	7	553
Projectile, Ordnance.....	C. Arrick.....	160, 071	Feb. 23, 1875	813	267	7	315
Projectile, Ordnance.....	J. G. Butler.....	160, 569	Mar. 9, 1875	293	99	7	409
Projectile, Ordnance.....	J. G. Butler.....	168, 447	Oct. 5, 1875	112	38	8	581
Projectile, Ordnance.....	H. Reilly.....	165, 255	July 6, 1875	103	31	8	23
Projectile-sabot.....	J. G. Butler.....	168, 318	Oct. 5, 1875	4	2	8	565
Projectiles, Method of attaching rings to.....	J. Vavasseur.....	160, 855	Mar. 16, 1875	568	185	7	444
Propeller blade, Screw.....	J. H. Loftus.....	160, 212	Feb. 23, 1875	921	305	7	332
Propeller, Chain.....	E. R. Austin.....	164, 633	June 22, 1875	759	249	7	1061
Propeller, Chain.....	D. C. Johnson.....	159, 330	Feb. 2, 1875	85	28	7	195
Propeller, Chain.....	C. Smith.....	161, 170	Mar. 23, 1875	861	281	7	492
Propeller, Endless chain.....	E. E. Everitt.....	160, 890	Mar. 16, 1875	599	195	7	448
Propeller engine, Twin-screw.....	G. B. Whiting.....	171, 074	Dec. 14, 1875	395	131	8	1010
Propeller guard, Screw.....	H. G. Wagner.....	170, 608	Nov. 30, 1875	1277	402	8	935
Propeller, Screw.....	J. C. Browne.....	162, 619	Apr. 27, 1875	969	311	7	722
Propeller, Screw.....	L. C. and G. F. Cary.....	166, 498	Aug. 10, 1875	313	94	8	251
Propeller, Screw.....	H. G. Cook and E. W. Barker.....	170, 937	Dec. 14, 1875	267	89	8	993
Propeller, Screw.....	J. Harrington.....	162, 063	Apr. 13, 1875	422	141	7	638
Propeller, Screw.....	J. Kelly.....	164, 305	June 8, 1875	442	146	7	1001
Propeller, Screw.....	N. A. Patterson.....	170, 893	Dec. 7, 1875	909	72, 73	8	979
Propeller, Screw.....	E. B. Porter.....	158, 734	Jan. 12, 1875	353	120	7	73
Propeller, Screw.....	J. L. Thornycroft.....	167, 136	Aug. 24, 1875	932	290	8	356
Propeller, Steering.....	W. H. Mallory.....	162, 396	Apr. 20, 1875	752	244	7	686
Propeller, Steering.....	W. F. Zoehle.....	163, 716	May 25, 1875	947	301	7	901
Propeller, Vessel.....	F. Jacob.....	167, 539	Sept. 7, 1875	141	43	8	426
Propeller, Vibrating.....	J. D. Cornell.....	170, 993	Dec. 14, 1875	325	108	8	1001
Propeller-wheel.....	N. A. Patterson.....	169, 287	Oct. 26, 1875	938	{ 304 } 305	8	720
Propeller-wheels, Flask for casting.....	R. B. Swift and T. J. List.....	165, 039	June 29, 1875	1144	{ 369 } 370	7	1118
Propellers, Lubricating device for marine.....	F. G. Fowler.....	158, 791	Jan. 19, 1875	426	142	7	99
Propellers, Means for raising and lowering.....	J. W. Dilks.....	168, 380	Oct. 5, 1875	54	19	8	572
Propelling and steering apparatus, Vessel.....	J. Dorman and T. G. Good.....	162, 156	Apr. 20, 1875	524	173	7	659
Propelling canal boats.....	A. Bugbee.....	167, 641	Sept. 14, 1875	245	76	8	447
Propelling machine.....	J. J. Flack.....	167, 517	Sept. 7, 1875	122	37	8	423
Propelling mechanism, Boat.....	W. Ascough.....	166, 839	Aug. 17, 1875	632	{ 196 } 197	8	306
Propelling mechanism, Boat.....	T. W. Pratt.....	164, 033	June 1, 1875	167	59	7	954
Propelling mechanism, Canal-boat.....	L. W. McKenney.....	167, 553	Sept. 7, 1875	153	47	8	428
Propelling wheel for canal-boats.....	G. Heydrick.....	158, 414	Jan. 5, 1875	55	19	7	17
Propulsion, Screw.....	J. E. Wilson.....	169, 754	Nov. 9, 1875	436	138	8	800
Protector:							
See Axle-protector.	Boot and shoe toe pro-						
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Plant-protector.	Sleeve-protector.						
Railway-rail-joint protector.	Teeth-protector.						
Tree-protector.							
Protractor	A. H. Dodd	161,392	Mar. 30, 1875	1092	355	7	530
Protractor	A. Swasey	165,519	July 13, 1875	384	114	8	69
Pruning implement	C. B. Cannon	161,381	Mar. 30, 1875	1083	351	7	528
Pruning implement	W. Carr	167,154	Aug. 31, 1875	975	303	8	369
Pruning implement	G. H. Henkel and W. C. Ward	169,359	Nov. 2, 1875	37	11	8	740
Pruning implement	C. Miller	160,454	Mar. 2, 1875	178	62	7	374
Pruning-shears	C. H. Billings	160,563	Mar. 9, 1875	289	98	7	399
Pruning-shears	J. Chase	160,392	Mar. 2, 1875	118	43	7	366
Pruning-shears	W. H. Johnson	160,102	Feb. 23, 1875	836	275	7	319
Pruning-shears	W. H. Johnson	160,103	Feb. 23, 1875	837	275	7	319
Pruning-shears, Manufacture of	S. S. Miles	164,579	June 15, 1875	700	228	7	1045
Psychrometer	W. Klinkerfues	168,505	Oct. 5, 1875	166	54	8	588
Puddler, Revolving	W. and G. H. Sellers	159,849	Feb. 16, 1875	588	195	7	278
Puddling-furnace	H. Ragot	159,040	Jan. 26, 1875	686	226	7	140
Puddling-furnace	C. J. Schofield	169,047	Oct. 19, 1875	700	231	8	679
Puddling-furnace	E. Wood	161,317	Mar. 23, 1875	1006	328	7	511
Puddling-furnace bottom-plate	S. Dallar	170,529	Nov. 30, 1875	1198	378	8	925
Puddling-furnace chill	J. L. Pennoek	161,268	Mar. 23, 1875	959	312	7	504
Puddling-furnace door	J. Boyland	170,225	Nov. 23, 1875	908	283	8	876
Puddling-furnace, Inclined revolving	C. Pernot	169,033	Oct. 19, 1875	686	226	8	677
Puddling-furnace, Tilting and revolving	G. W. Hall	167,241	Aug. 31, 1875	1047	325	8	379
Puddling-furnaces, Fire-chamber for	H. H. Gilmore	160,180	Feb. 23, 1875	901	297	7	328
Puddling-furnaces, Water-bridge bosh for	J. C. Longland	161,135	Mar. 23, 1875	833	272	7	488
Puller:							
See Cotton-stock puller.	Stump-puller.						
Seedlings-puller.							
Pulley	R. W. Betts and W. Howie	168,708	Oct. 11, 1875	380	124	8	626
Pulley	A. H. Borgfeldt	159,633	Feb. 9, 1875	366	122	7	243
Pulley, Band	J. Charlton	161,204	Mar. 23, 1875	888	291	7	496
Pulley-block	J. Weir	158,448	Jan. 5, 1875	83	29	7	21
Pulley-block	J. Weir	166,167	July 27, 1875	1028	316	8	186
Pulley-block, Differential	B. F. Warren	159,987	Feb. 16, 1875	717	238	7	295
Pulley-casting flask	W. Hutton	159,097	Jan. 26, 1875	736	243	7	147
Pulley-cover	J. W. Sutton	166,233	Aug. 3, 1875	44	14	8	205
Pulley, Differential	J. T. Tewkes	159,400	Feb. 2, 1875	142	49	7	204
Pulley for shafting, Loose	C. H. Mellor	165,852	July 20, 1875	715	217	8	130
Pulley, Friction	T. F. Carver	160,570	Mar. 9, 1875	293	100	7	400
Pulley, Friction-clutch	D. Harrington	161,119	Mar. 23, 1875	817	268	7	486
Pulley-grinding machine	A. Wood	164,897	June 22, 1875	1005	324	7	1092
Pulley or gear-wheel	J. B. Mason	169,114	Oct. 26, 1875	786	255	8	698
Pulley or gear-wheel, Reversing	H. W. Sherrill	161,986	Apr. 13, 1875	357	120	7	630
Pulley, Sash	W. H. Bicknell	169,766	Nov. 9, 1875	453	143	8	801
Pulley, Sash	C. B. Clark	163,459	May 18, 1875	699	223	7	862
Pulley, Sash	J. Smith	167,478	Sept. 7, 1875	85	27	8	418
Pulleys, Casting	J. Murdock	166,799	Aug. 17, 1875	599	185	8	301
Pulmonary diseases, Remedy for	J. O. Slemmons	171,536	Dec. 23, 1875	871		8	1090
Pulverizer, Clay	D. Reedy	160,618	Mar. 9, 1875	336	113	7	406
Pulverizer, Land	A. Underwood	160,129	Feb. 23, 1875	858	284	7	322
Pump	E. F. Adsett	164,506	June 15, 1875	639	207	7	1035
Pump	S. Arndt and W. S. Ayres	164,631	June 22, 1875	757	249	7	1061
Pump	J. S. Ash	160,742	Mar. 16, 1875	465	153	7	431
Pump	W. Barnes	171,545	Dec. 23, 1875	878	287	8	1091
Pump	A. A. Burr	159,152	Jan. 26, 1875	783	257	7	154
Pump	T. Butler	166,497	Aug. 10, 1875	312	94	8	251
Pump	W. H. Conner	164,147	June 8, 1875	292	100	7	981
Pump	M. Cook	162,532	Apr. 27, 1875	900	287	7	713
Pump	T. Dowling	167,881	Sept. 21, 1875	475	150	8	489
Pump	L. Goodwin and S. A. West	158,372	Jan. 5, 1875	19	7	7	11
Pump	D. J. Gorton	163,766	May 25, 1875	989	314	7	907
Pump	J. Grzybowski	165,925	July 27, 1875	796	244	8	154
Pump	G. W. Hooper	159,576	Feb. 9, 1875	325	107	7	237
Pump	A. and M. Knecht	166,786	Aug. 17, 1875	586	181	8	299
Pump	W. S. Laney	169,999	Nov. 16, 1875	673	212	8	838
Pump	E. D. Leavitt, jr.	163,018	May 11, 1875	279	90	7	791
Pump	W. McBurnard	170,680	Dec. 7, 1875	25	8	8	954
Pump	R. A. McCauley	162,181	Apr. 20, 1875	549	180	7	662
Pump	E. McCoy and O. M. Harper	162,402	Apr. 20, 1875	758	246	7	687
Pump	E. McDermott	165,244	July 6, 1875	95	28	8	22
Pump	A. N. Parkhurst	163,518	May 18, 1875	765	242	7	870
Pump	S. B. Strong	165,629	July 13, 1875	487	148	8	84
Pump	C. O. Sylvester	159,470	Feb. 2, 1875	217	70	7	214
Pump	H. Tyler	167,366	Aug. 31, 1875	1156	364	8	395
Pump	W. Young	168,952	Oct. 19, 1875	609	202	8	667
Pump, Air	G. E. Barker	162,264	Apr. 20, 1875	627	204	7	671
Pump, Air	W. H. Bowers	162,021	Apr. 13, 1875	383	129	7	633
Pump, Air	J. H. Ellis	168,888	Oct. 19, 1875	542	179	8	658
Pump, Air	C. F. Moll and J. H. Altheide	168,842	Oct. 19, 1875	508	167	8	653
Pump and engine, Rotary	R. Patrick	170,448	Nov. 30, 1875	1123	353	8	915
Pump, Bilge	J. F. Smethells	165,623	July 13, 1875	482	147	8	83
Pump-box	J. Dillon	169,092	Oct. 26, 1875	766	249	8	695
Pump-box	W. A. Spooner	161,563	Mar. 30, 1875	1256	405	7	551
Pump-bucket	E. J. Dunbar	169,155	Oct. 26, 1875	821	266	8	704
Pump bucket, Chain	J. S. Beazell	166,062	July 27, 1875	920	284	8	171
Pump bucket, Chain	W. Cooper	167,990	Sept. 21, 1875	557	179	8	502
Pump bucket, Chain	A. L. Corey	160,881	Mar. 16, 1875	592	192	7	447
Pump bucket, Chain	J. G. Henderson	161,881	Apr. 13, 1875	270	90	7	619
Pump bucket, Chain	E. Hoyt	163,013	May 11, 1875	276	89	7	791

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Pump bucket, Chain	W. H. Kelly	161,967	Apr. 13, 1875	342	115	7	623
Pump bucket, Chain	J. Neil	159,037	Jan. 26, 1875	684	225	7	140
Pump bucket, Chain	J. D. Shoots	158,534	Jan. 5, 1875	160	54	7	31
Pump bucket, Chain	D. F. Stow	160,125	Feb. 23, 1875	855	283	7	322
Pump bucket, Chain	J. B. Van Duzer and R. Johnston	170,211	Nov. 23, 1875	895	279	8	874
Pump bucket, Endless-chain	J. S. Manley	167,919	Sept. 21, 1875	504	160	8	493
Pump bucket, Sectional	G. W. Burr	160,812	Mar. 16, 1875	537	174	7	440
Pump buckets, Coupling for chain	N. D. Davis	170,824	Dec. 7, 1875	153	51	8	971
Pump, Centrifugal	L. Ch pman	162,743	May 4, 1875	8	3	7	748
Pump, Chain	C. Fishbaugh	163,859	June 1, 1875	22	7	7	933
Pump, Chain	C. Fishbaugh	163,860	June 1, 1875	23	7	7	933
Pump, Chain	C. L. Merrill	164,098	June 8, 1875	252	86	7	976
Pump, Chain	W. Wehres	167,286	Aug. 31, 1875	1085	341	8	385
Pump-chain adjuster	J. B. Brown	165,207	July 6, 1875	64	18	8	17
Pump-cylinders, Lining	J. W. Douglas	158,786	Jan. 19, 1875	419	141	7	98
Pump, Deep-well	J. H. Duck	168,462	Oct. 5, 1875	126	43	8	583
Pump, Double-acting	L. Bouvier	171,090	Dec. 14, 1875	409	136	8	1012
Pump, Double-acting	C. Gordon	165,727	July 20, 1875	587	180	8	114
Pump, Double-acting	H. Van Doren	171,592	Dec. 28, 1875	921	392	8	1090
Pump, Double-acting submerged	G. G. Hartwick and E. Mark	160,696	Feb. 23, 1875	832	273	7	318
Pump, Driven-well	P. A. Spicer	170,124	Nov. 16, 1875	790	251	8	853
Pump, Expansion-bucket for chain	D. W. Witmer	170,926	Dec. 7, 1875	239	82	8	982
Pump for hydraulic presses	D. C. Starks	162,256	Apr. 20, 1875	618	201	7	670
Pump for raising heavy liquids	E. L. Perry	168,411	Oct. 5, 1875	83	28, 29	8	577
Pump Force	F. W. Clarke	167,433	Sept. 7, 1875	49	15	8	413
Pump Force	L. J. Knowles	160,207	Feb. 23, 1875	925	304	7	331
Pump, Force	W. C. Libengood	168,907	Oct. 19, 1875	573	189	8	662
Pump, Force and suction	B. Branson	167,060	Aug. 24, 1875	861	268	8	346
Pump-governor	C. W. Mills	165,112	June 29, 1875	1212	390	7	1128
Pump-handle link	C. Adams	169,755	Nov. 9, 1875	437	138	8	800
Pump-handles, Attaching	O. E. Furber	169,900	Nov. 16, 1875	592	184	8	827
Pump or motor, Rotary	N. Upsham	160,974	Mar. 16, 1875	673	220	7	458
Pump-piston, Artesian-well	T. Malcolmson	166,394	Aug. 3, 1875	196	58	8	226
Pump piston or plunger, Force	G. W. Gilmore	171,475	Dec. 28, 1875	809	267	8	1082
Pump pitman-connection	J. M. Langley	161,971	Apr. 13, 1875	345	116	7	628
Pump-plunger	J. S. Engle	169,974	Nov. 16, 1875	653	204	8	835
Pump, Plunger	R. Hartley and J. B. Marshall	168,640	Oct. 11, 1875	323	105	8	618
Pump, Pneumatic	G. Westinghouse, jr.	159,533	Feb. 9, 1875	295	95	7	232
Pump, Rotary	H. A. Barber	165,528	July 13, 1875	392	118	8	70
Pump, Rotary	G. S. Follensbee	158,480	Jan. 5, 1875	114	39	7	25
Pump, Rotary	W. Lyon	168,034	Sept. 21, 1875	606	194	8	509
Pump, Rotary	O. H. Whitney	167,374	Aug. 31, 1875	1164	367	8	396
Pump, Rotary force	A. Carlin	170,343	Nov. 23, 1875	1011	317	8	891
Pump, Sirup	L. J. Knowles	158,381	Jan. 5, 1875	25	9	7	12
Pump, Steam	J. McCormick and S. R. Kelley	170,008	Nov. 16, 1875	682	214	8	839
Pump, Steam	J. North	162,409	Apr. 20, 1875	765	248	7	688
Pump, Steam	J. Tesseyman	162,122	Apr. 13, 1875	478	158	7	645
Pump, Steam	F. Trump	158,447	Jan. 5, 1875	82	28	7	21
Pump, Steam and vacuum	O. Jackson	162,747	Oct. 11, 1875	415	135	8	631
Pump, Steam and vacuum	L. D. B. Shaw	170,968	Dec. 14, 1875	302	100	8	998
Pump-strainer	L. Blass	167,427	Sept. 7, 1875	46	13	8	412
Pump-sucker	J. M. Springer	160,065	Feb. 23, 1875	808	265	7	315
Pump-suction-pipe float	C. Meitzler and G. H. Haass	159,599	Feb. 9, 1875	342	114	7	240
Pump, Tubular-well	J. T. Whipple	166,048	July 27, 1875	908	281	8	170
Pump, Wood	A. Breed	165,914	July 27, 1875	781	239	8	153
Pumps, &c., Air-chamber for steam	L. J. Knowles	160,206	Feb. 23, 1875	924	304	7	331
Pumping engine, Steam	E. Cope and J. R. Maxwell	170,938	Dec. 14, 1875	267	89, 90	8	994
Pumping engine, Steam	C. H. Hudson	162,557	Apr. 27, 1875	919	295	7	716
Pumping wells, Means for	A. E. Nickerson and L. C. Streeter	162,406	Apr. 20, 1875	763	247	7	688
Pumping wells, Means for	A. E. Nickerson and L. C. Streeter	164,756	June 22, 1875	872	284	7	1076
Punch	E. J. Brooks	165,062	June 29, 1875	1165	375	7	1121
Punch, alarm, &c., Conductor's	G. J. Hill and A. Ruger	170,170	Nov. 23, 1875	859	269	8	870
Punch, Bell	H. E. Towle	168,195	Sept. 28, 1875	783	249	8	540
Punch, Conductor's	O. T. Hungerford	162,071	Apr. 13, 1875	428	143	7	639
Punch, Conductor's	H. Johnson	162,289	Apr. 20, 1875	645	211	7	674
Punch, Conductor's	C. H. Nye	165,683	July 20, 1875	549	167	8	108
Punch, Hydraulic	J. B. Barnes	167,975	Sept. 21, 1875	545	175	8	500
Punch, Metal	D. Kennedy	161,968	Apr. 13, 1875	342	115	7	623
Punch-press	A. H. Merriman	168,763	Oct. 11, 1875	428	140	8	633
Punches, Means for holding conductor's	T. B. Doolittle	166,858	Aug. 17, 1875	654	203	8	309
Punching boiler-plates, Machine for	J. Morgan	167,461	Sept. 7, 1875	71	22	8	416
Punching-machine	C. A. Corman	163,579	May 25, 1875	829	262	7	886
Punching-machine	C. Norton	166,134	July 27, 1875	994	307	8	182
Punching-machine	J. B. Sexton	160,474	Mar. 2, 1875	194	67	7	376
Punching-machine feeding device	F. Deming	166,078	July 27, 1875	937	290	8	174
Punching-machine feeding device	F. Deming	169,784	Nov. 9, 1875	469	148	8	803
Punching machine, Metal	D. W. Baer	165,466	July 13, 1875	340	99	8	62
Punching machine, Metal	J. R. Lindsay	166,707	Aug. 17, 1875	514	158	8	289
Punching pipes, Machine for	O. B. Olmsted	168,176	Sept. 28, 1875	767	243	8	538
Punching-press	W. E. Brooke	159,495	Feb. 9, 1875	252	82	7	227
Putty, Press for packing	L. Boucher	166,066	July 27, 1875	925	286	8	172
Pyrometer	M. Crawford	161,330	Mar. 20, 1875	1031	335	7	522
Pyrophone	G. E. F. Kastner	164,458	June 15, 1875	600	194	7	1030
Q.							
Quadrant for opening, shutting, and fastening windows	J. E. Beanland	159,744	Feb. 16, 1875	493	165	7	266
Quartz-mills, Concentrating tailings from	F. E. Mills	170,289	Nov. 23, 1875	964	302	8	884
Quartz-mortar	A. W. Anderson	165,146	July 6, 1875	1	1	8	9
Quicksilver-furnace	C. A. Luckhardt	159,692	Feb. 9, 1875	425	142	7	251
Quicksilver in quartz-mills, Distributing	M. P. Boss	167,659	Aug. 24, 1875	860	268	8	346
Quicksilver-ore, Treating	J. P. Sieveking	169,198	Oct. 26, 1875	855	273	3	709
Quicksilver-saving machine	J. W. Varney	163,616	May 25, 1875	867	273	7	891

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Quicksilver-strainer.....	H. H. Oakes.....	159, 113	Jan. 26, 1875	751	247	7	149
Quilted fabric, Imitation.....	W. E. Corwin.....	166, 262	Aug. 3, 1875	70	22	8	209
Quilter and corder, Gage.....	G. Vincent.....	161, 458	Mar. 30, 1875	1152	371	7	537
Quilting-frame.....	T. C. Maris.....	159, 429	Feb. 2, 1875	169	58	7	208
Quilting-frame.....	G. P. Simmons and J. Franz.....	161, 639	Apr. 6, 1875	45	17	7	575
Quilting-frame.....	T. N. Wheeler.....	158, 659	Jan. 12, 1875	291	97, 98	7	65
Quilting-frame clamp.....	A. P. Grabham.....	159, 090	Jan. 26, 1875	728	241	7	146
Quilting-frame clamp.....	U. N. Partridge.....	163, 102	May 11, 1875	359	117	7	802
Quilting-machine.....	A. Beck.....	159, 884	Feb. 16, 1875	624	207	7	282
R.							
Races, Electrical apparatus for timing.....	R. J. Sheehy.....	164, 696	June 22, 1875	818	{ 267 268 }	{ 7 7 }	1069
Rack:							
See Advertising-card rack. Feed-rack.							
Barrel-rack. Filter-rack.							
Book-rack. Folding rack.							
Carpet show-rack. Hay-rack.							
Clothes and hat rack. Show-rack.							
Drying-rack. Towel-rack.							
Electroplating-rack. Wagon-rack.							
Radiator.....	J. Reynolds.....	162, 100	Apr. 13, 1875	452	151	7	642
Radiator.....	E. Russell.....	165, 181	July 6, 1875	38	11	8	14
Radiator, Steam.....	S. J. Georghegan.....	163, 763	May 25, 1875	987	313	7	907
Radiator, Steam.....	J. Mason.....	161, 804	Apr. 6, 1875	183	62	7	595
Radiator, Steam.....	E. F. Osborne.....	165, 118	June 29, 1875	1216	391	7	1128
Radiator, Steam.....	G. B. Riggins.....	163, 808	May 25, 1875	1026	325	7	913
Radiator, Steam.....	J. Shackleton.....	164, 600	June 15, 1875	719	234	7	1047
Radiator, Steam.....	W. H. Shock.....	161, 907	Apr. 13, 1875	291	98	7	622
Radiator, Steam.....	W. B. Snow.....	166, 901	Aug. 17, 1875	694	215	8	314
Radiator, Steam.....	J. R. Worswick.....	161, 085	Mar. 23, 1875	780	257	7	482
Radiator, Steam-heater.....	C. Comstock.....	159, 155	Jan. 26, 1875	785	258	7	154
Radiator, Steam-heater.....	C. R. Ellis.....	164, 156	June 8, 1875	300	102	7	983
Radiator, Steam-heater.....	C. C. Walworth.....	158, 612	Jan. 12, 1875	245	83	7	58
Radiator-tube.....	E. Russell.....	168, 674	Oct. 11, 1875	349	114	8	622
Radiators, Air-vent for steam.....	G. W. Blake.....	170, 808	Dec. 7, 1875	139	46	8	969
Rafting-crib.....	C. W. Tobey.....	162, 124	Apr. 13, 1875	480	158	7	645
Rag-cutting machine.....	W. C. Harrison.....	163, 069	May 11, 1875	329	107	7	797
Rail-drilling device.....	J. H. Lakey.....	161, 418	Mar. 30, 1875	1117	361	7	532
Rail, Hand.....	P. J. Hardy.....	163, 996	June 1, 1875	131	46	7	949
Rail-holder.....	C. W. Matthews.....	170, 679	Dec. 7, 1875	24	8	8	954
Rail-joint.....	G. A. Mead.....	169, 717	Nov. 9, 1875	397	124	8	794
Rail-joint.....	H. Weber.....	170, 652	Nov. 30, 1875	1314	415	8	940
Railing, post, &c, tube.....	D. W. Hazleton.....	169, 699	Nov. 9, 1875	381	120	8	792
Railway-bulletin box.....	W. T. Jacoby.....	171, 571	Dec. 28, 1875	903	295	8	1095
Railway-chair.....	J. Gogerty.....	170, 168	Nov. 23, 1875	858	268	8	869
Railway-chair.....	R. C. Ludlow.....	165, 845	July 20, 1875	207	215	8	129
Railway-chair.....	J. Raddin.....	161, 547	Mar. 30, 1875	1240	399	7	549
Railway-chair.....	G. O. Ross.....	164, 596	June 15, 1875	714	233	7	1047
Railway-chair.....	J. L. Seward.....	159, 715	Feb. 9, 1875	446	149	7	254
Railway chair, Street.....	J. M. Atkinson.....	170, 979	Dec. 14, 1875	311	103	8	999
Railway-crossing.....	J. Cumming.....	159, 158	Jan. 26, 1875	788	258	7	154
Railway-crossing.....	E. J. Patterson.....	164, 759	June 22, 1875	873	285	7	1076
Railway-crossing.....	C. C. Shelby.....	168, 055	Sept. 21, 1875	629	202	8	512
Railway-crossing.....	W. J. Stillman.....	168, 853	Oct. 19, 1875	518	170	8	654
Railway-crossing gate.....	S. Cox.....	160, 166	Feb. 23, 1875	891	293	7	327
Railway-crossing gate.....	S. Keller.....	167, 842	Sept. 21, 1875	439	140	8	484
Railway-crossing signal.....	R. T. King and L. L. Nunn.....	163, 875	June 1, 1875	34	11	7	935
Railway, Elevated.....	J. B. Church.....	162, 220	Apr. 20, 1875	582	191	7	666
Railway, Elevated.....	J. B. Cornell.....	160, 650	Mar. 9, 1875	362	122	7	410
Railway, Elevated.....	J. M. Hannahs.....	163, 188	May 11, 1875	437	142	7	811
Railway, Elevated.....	J. M. Hannahs.....	163, 189	May 11, 1875	437	142	7	812
Railway, Elevated.....	W. H. Harrison.....	167, 401	Sept. 7, 1875	21	6	8	409
Railway, Elevated.....	C. L. Horack.....	162, 751	May 4, 1875	14	5	7	749
Railway, Elevated.....	L. Lotz.....	160, 831	Mar. 16, 1875	552	179	7	442
Railway, Elevated.....	A. E. Lozier.....	169, 819	Nov. 9, 1875	504	158	8	807
Railway, Elevated.....	R. Stone.....	162, 504	Apr. 27, 1875	876	280	7	710
Railway, Elevated.....	J. Westcott.....	169, 322	Oct. 26, 1875	974	316	8	724
Railway, Elevated.....	J. Westcott.....	169, 606	Nov. 2, 1875	267	87	8	770
Railway, Elevated.....	F. A. Williams.....	160, 249	Feb. 23, 1875	961	{ 316 317 }	{ 7 7 }	337
Railway, Elevated.....	J. G. Wilson.....	165, 906	July 20, 1875	762	233	8	138
Railway-frog.....	J. Cummings.....	166, 855	Aug. 17, 1875	649	202	8	308
Railway-frog.....	G. Elliot.....	170, 537	Nov. 30, 1875	1203	379	8	926
Railway-frog.....	W. L. Lamborn.....	159, 763	Feb. 16, 1875	508	170	7	268
Railway-frog.....	F. C. Weir.....	171, 073	Dec. 14, 1875	394	131	8	1010
Railway-frog point.....	J. Johnson.....	167, 671	Sept. 14, 1875	270	84	8	451
Railway-frogs, Machine for welding.....	A. J. O'Leary and J. Turner.....	168, 103	Sept. 28, 1875	698	220	8	528
Railway-gate.....	J. H. Eberhart.....	166, 973	Aug. 24, 1875	777	240	8	334
Railway-joint.....	H. Allen.....	166, 243	Aug. 3, 1875	53	17	8	206
Railway-lubricator.....	C. B. O'Sullivan and P. Murphy.....	166, 548	Aug. 10, 1875	351	108	8	257
Railway pinch-bar.....	C. Ragan.....	161, 439	Mar. 30, 1875	1134	366	7	535
Railway, Pneumatic.....	R. R. Gregg.....	165, 092	June 29, 1875	1191	384	7	1125
Railway, Portable.....	A. Bass.....	164, 252	June 8, 1875	390	132	7	994
Railway-rail.....	G. H. Mayer, jr.....	171, 029	Dec. 14, 1875	352	117	8	1005
Railway-rail joint.....	H. Allen.....	168, 704	Oct. 11, 1875	374	{ 122 123 }	{ 8 8 }	625
Railway-rail joint.....	G. E. Dering.....	169, 239	Oct. 26, 1875	892	290	8	714
Railway-rail joint.....	C. Dittman.....	168, 558	Oct. 11, 1875	241	79	8	606
Railway-rail joint.....	S. W. Griffith.....	168, 480	Oct. 5, 1875	144	48	8	586
Railway-rail joint.....	W. Haddock.....	164, 369	June 15, 1875	516	170	7	1020
Railway-rail joint.....	J. G. Holliday.....	168, 900	Oct. 19, 1875	561	183	8	660
Railway-rail joint.....	W. H. Hornum.....	169, 266	Oct. 26, 1875	920	298	8	717
Railway-rail joint.....	J. M. Kenny.....	160, 916	Mar. 16, 1875	619	202	7	451

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Railway-rail joint	R. Long	170,384	Nov. 23, 1875	1047	329	8	896
Railway-rail joint	C. B. Phillips	160,277	Mar. 2, 1875	20	8	7	351
Railway-rail joint	R. Pickel	160,118	Feb. 23, 1875	850	280	7	321
Railway-rail joint	D. K. Reeder	160,032	Feb. 23, 1875	778	257	7	311
Railway-rail joint	W. H. Robinson	169,293	Oct. 26, 1875	945	307	8	720
Railway-rail joint	W. M. Spacht	164,051	June 1, 1875	185	66	7	956
Railway-rail joint	S. H. Witmer	167,598	Sept. 7, 1875	195	61	8	433
Railway-rail joint	J. C. Wright	167,047	Aug. 24, 1875	846	263	8	344
Railway-rail joint fastening	L. Chilson	169,237	Oct. 26, 1875	891	290	8	714
Railway-rail joint fastening	J. Corson	166,750	Aug. 17, 1875	556	170	8	295
Railway-rail joint fastening	S. Hipkins, jr., and J. W. Rigsby	166,379	Aug. 3, 1875	181	54	8	224
Railway-rail joint fastening	P. F. and E. A. King	167,260	Aug. 31, 1875	1064	331	8	382
Railway-rail joint fastening	P. McCarty	158,645	Jan. 12, 1875	277	93	7	63
Railway-rail joint fastening	A. Spencer	166,229	Aug. 3, 1875	41	13	8	205
Railway-rail joint fastening	J. B. Tapscott	161,839	Apr. 6, 1875	221	74	7	600
Railway-rail joint fastening	G. C. Vail	162,529	Apr. 27, 1875	946	304	7	720
Railway-rail joint protector	I. Mill	160,940	Mar. 16, 1875	644	210	7	454
Railway-rail-patching machine	J. R. Moore and J. G. Mills	160,536	Mar. 9, 1875	266	90	7	395
Railway rail, Street	J. P. Neesse	162,941	May 4, 1875	190	62	7	772
Railway-rail support	S. L. Porter and D. Peck	161,153	Mar. 23, 1875	848	276	7	490
Railway rails, Joint-support for street	C. B. Sheldon	164,776	June 22, 1875	886	289	7	1078
Railway-rails, Method of forming fagots of old	J. Downing, sr.	165,219	July 6, 1875	73	21	8	19
Railway-rammer head	M. A. J. Wimpee	163,835	May 25, 1875	1049	332	7	916
Railway-signal	J. H. Barger	171,083	Dec. 14, 1875	404	134	8	1011
Railway-signal	F. C. Bolton and M. Adams	163,446	May 18, 1875	687	220	7	861
Railway-signal	H. Flad	162,369	Apr. 20, 1875	722	235	7	683
Railway-signal	J. Gordon	162,376	Apr. 20, 1875	734	237		
Railway-signal	R. L. Kilpatrick	161,519	Mar. 30, 1875	1215	390	7	545
Railway-signal	R. H. Moore	166,024	July 27, 1875	887	391		
Railway-signal	F. Raymond	169,477	Nov. 2, 1875	139	274	8	167
Railway-signal circuit-closer	D. Rousseau	166,558	Aug. 10, 1875	361	45, 46	8	754
Railway-signal circuit-closer	S. Weeks	105,281	July 6, 1875	123	111	8	258
Railway-signal, Detonating	H. J. Detwiller	170,067	Nov. 16, 1875	737	38	8	26
Railway-signal, Detonating	F. Hickman	160,431	Mar. 2, 1875	155	234	8	846
Railway-signal, Detonating	F. Hickman	167,532	Sept. 7, 1875	135	54	7	371
Railway-signal, Electric	E. E. Bean	169,509	Nov. 2, 1875	167	41	8	425
Railway-signal, Electric	J. S. Farmer and E. Tyler	170,540	Nov. 30, 1875	1207	55, 56	8	758
Railway-signal, Electric	D. Rousseau	166,557	Aug. 10, 1875	358	380	8	926
Railway-signal, Electric	D. Rousseau	166,559	Aug. 10, 1875	363	111	8	258
Railway-signal, Electric	H. W. Spang	164,227	June 8, 1875	359	123	7	991
Railway-signal, Electric	H. W. Spang	164,228	June 8, 1875	366	124		
Railway-signal, Electric	H. W. Spang	164,778	June 22, 1875	888	125	7	991
Railway-signal, Electric	H. W. Spang	168,058	Sept. 21, 1875	631	290	7	1078
Railway-signal, Electric	H. W. Spang	168,059	Sept. 21, 1875	634	202	8	512
Railway-signals, Circuit-closer for	L. B. Dennis	168,379	Oct. 5, 1875	53	203	8	513
Railway signaling apparatus	J. Ewart	162,908	May 4, 1875	157	204		
Railway signaling apparatus, Electrical	E. W. Siemens and C. L. Frischen	161,561	Mar. 30, 1875	1251	403	7	551
Railway signaling apparatus, Pneumatic	A. Chambers	163,152	May 11, 1875	403	404		
Railway-sprinkler	G. M. Stevens	165,184	July 6, 1875	41	130	7	807
Railway-switch	J. L. Arms	169,610	Nov. 9, 1875	287	12	8	14
Railway-switch	P. C. Bragg	160,076	Feb. 23, 1875	816	93	8	781
Railway-switch	D. F. Cavanaugh	166,186	Aug. 3, 1875	5	268	7	316
Railway-switch	D. F. Cavanaugh	167,743	Sept. 14, 1875	331	2	8	199
Railway-switch	C. C. Coats	167,499	Sept. 7, 1875	101	106	8	460
Railway-switch	W. W. Colley	164,523	June 15, 1875	655	32	8	421
Railway-switch	H. Cook	162,460	Apr. 27, 1875	834	211	7	1037
Railway-switch	M. H. Davidson	163,364	May 18, 1875	619	269	7	705
Railway-switch	C. P. Deyoe	167,313	Aug. 31, 1875	1107	198	7	851
Railway-switch	G. Gill and F. V. Beisel	166,604	Aug. 10, 1875	403	348	8	389
Railway-switch	B. Hinkley	163,198	May 11, 1875	449	124	8	264
Railway-switch	W. L. Lamborn	169,274	Oct. 26, 1875	926	145	7	813
Railway-switch	S. E. Linton	171,575	Dec. 28, 1875	906	300	8	718
Railway-switch	L. Middleton and J. B. Cary	169,021	Oct. 19, 1875	673	301		
Railway-switch	C. D. Tisdale	160,040	Feb. 23, 1875	784	221	8	675
Railway-switch	E. A. Trapp	162,434	Apr. 20, 1875	787	222		
Railway-switch	J. Walker	164,886	June 22, 1875	996	258	7	1091
Railway-switch	W. A. Weant	161,918	Apr. 13, 1875	303	256		
Railway-switch	J. C. Wilhelm	165,287	July 6, 1875	129	321	7	1091
Railway-switch	G. J. Woodruff	160,135	Feb. 23, 1875	862	322		
Railway-switch, Safety	J. A. Duggan	167,652	Sept. 14, 1875	253	101	7	623
Railway-switch stand	J. H. Lukens	163,220	May 11, 1875	464	39	8	26
Railway switch, Street	C. B. Barlow	162,790	May 4, 1875	52	285	7	323
Railway switch, Street	B. Bevelander	161,001	Mar. 23, 1875	704	79	8	449
Railway switch, Street	C. P. Evans	168,889	Oct. 19, 1875	549	150	7	815
Railway switch, Street	G. T. Jacobs	163,780	May 25, 1875	1001	151		
Railway switch, Street	A. L. Johnsons	166,530	Aug. 10, 1875	338	17	7	753
Railway-tanks, Means for raising water into	T. Rodes	166,556	Aug. 10, 1875	358	232	7	472
Railway-tie	S. H. Hamilton	163,187	May 11, 1875	436	180	8	659
Railway-tie	S. L. Porter and D. Peck	158,437	Jan. 5, 1875	72	318	7	909
Railway-tie	H. Reese	163,254	May 11, 1875	498	103	8	255
Railway time-signal	J. A. Dinkey, N. Enbody, and S. Bradley	166,194	Aug. 3, 1875	11	110	8	258
Railway time-signal	J. C. Paige	164,475	June 15, 1875	613	141	7	811
Railway time-signal	J. C. Paige	164,475	June 15, 1875	613	25	7	19
Railway time-signal	J. C. Paige	164,475	June 15, 1875	613	162	7	*819
Railway time-signal	J. C. Paige	164,475	June 15, 1875	613	4	8	290
Railway time-signal	J. C. Paige	164,475	June 15, 1875	613	199	7	1032

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Railway time-signal	J. A. Tapley	169,741	Nov. 9, 1875	420	133	8	797
Railway-track	R. Bañolas	164,793	June 22, 1875	902	293	7	1080
Railway-track gage	S. Holbrook	168,567	Oct. 11, 1875	232	82	8	607
Railway track, Street	J. Quigley	171,422	Dec. 21, 1875	746	245	8	1065
Railway-tracks, Repairing	J. Houston	160,197	Feb. 23, 1875	915	301	7	330
Railway-tunnel ventilator	J. Dixon	163,643	May 25, 1875	889	281	7	894
Railway-wrench	J. R. Finley	163,319	July 6, 1875	162	49	8	31
Railways, Permanent way for	R. E. Nichols	166,625	Aug. 10, 1875	420	130	8	266
Rain-conductor	J. W. Hoyt	163,314	May 18, 1875	574	183	7	845
Rain-spout support	D. Roake	163,531	May 18, 1875	774	245	7	871
Rake:							
See Garden-rake.	Horse-rake.						
Harvester-rake.	Vine-rake.						
Hay-rake.							
Rake	F. W. Hawkins	164,450	June 15, 1875	594	193	7	1030
Rammer, Pavior's	G. Hitchcock	162,384	Apr. 20, 1875	739	241	7	685
Rammer, Road	A. Q. Ross	164,877	June 22, 1875	989	319	7	1090
Rammer, Steam road	S. Johnson	167,839	Sept. 21, 1875	437	139	8	483
Range	E. O. Brinckerhoff	159,298	Feb. 2, 1875	49	18, 19	7	191
Range-boiler	J. A. Gibson	165,724	July 20, 1875	585	179	8	114
Range-boiler stand	L. Brandeis	164,420	June 15, 1875	567	184	7	1026
Range, Cooking	W. P. Abendroth	166,242	Aug. 3, 1875	52	17	8	206
Range, Cooking	T. Groom	168,152	Sept. 28, 1875	748	236	8	535
Range, Cooking	J. Old	160,542	Mar. 9, 1875	270	92	7	396
Range, Portable	J. Cox and G. E. Hopkin	165,660	July 20, 1875	529	162	8	105
Range, Portable	G. W. Walker	161,365	Mar. 30, 1875	1063	346	7	526
Range, Portable	G. G. Wolfe	164,630	June 15, 1875	744	{ 243 } { 244 }	7	1051
Ranges, stoves, &c., Upright boiler for	J. Lawton and J. A. Gibson	165,105	June 29, 1875	1206	388	7	1127
Ratchet-drill	H. C. English	167,392	Sept. 7, 1875	13	4	8	408
Ratchet-drill	G. Hayden	169,262	Oct. 26, 1875	917	297	8	717
Ratchet-drill	J. M. Koeberle	164,686	June 22, 1875	808	264	7	1068
Ratchet-movement	J. Parr	169,574	Nov. 2, 1875	234	77	8	766
Ratchet-wheel	J. F. Thomas	170,917	Dec. 7, 1875	231	79	8	982
Ratchet-wheel click	E. H. Perry	169,190	Oct. 26, 1875	848	277	8	708
Ratchet-wrench	F. S. Ober	168,406	Oct. 5, 1875	78	27	8	576
Rattan-machines, Measuring-mechanism for	N. H. Richardson	167,358	Aug. 31, 1875	1148	361	8	394
Rattan, Treating	C. Newman	167,409	Sept. 7, 1875	29	8	8	410
Rattoo-cutting machine	J. Angers	160,992	Mar. 23, 1875	697	229	7	471
Razor-strap	J. Maxson	170,635	Nov. 30, 1875	1302	411	8	939
Reapers, Self-rake for	S. B. Gilliland	171,010	Dec. 14, 1875	338	112	8	1003
Reciprocating-cylinder revolving engine	C. H. Palmer and E. H. Dewey	165,175	July 6, 1875	34	9	8	13
Reciprocating engine	G. B. Dixwell	166,688	Aug. 17, 1875	497	152	8	286
Reciprocating engine, Direct-acting	R. Creuzbour	161,486	Mar. 30, 1875	1181	379	7	541
Reciprocating steam-engine	G. B. Dixwell	160,311	Mar. 2, 1875	48	18, 19	7	356
Reciprocating steam-engine	C. W. Hermance	163,773	May 25, 1875	994	315	7	968
Reciprocating steam-engine	M. V. Nobles	158,510	Jan. 5, 1875	141	47	7	28
Reclining-chair	C. M. Alexander	170,503	Nov. 30, 1875	1174	371	8	922
Reclining-chair	J. Damm	159,395	Feb. 2, 1875	137	47	7	204
Reclining-chair	N. H. Hill	160,673	Mar. 9, 1875	381	129	7	413
Reclining chair	J. S. Leas	163,218	May 11, 1875	462	150	7	815
Reclining-chair	J. W. McDonough	163,389	May 18, 1875	641	205	7	854
Rectifiers, Purification of filtering and oxygenating substances in	J. W. Reford	159,451	Feb. 2, 1875	190	64	7	211
Rectifying and oxygenating apparatus	J. W. Reford	159,450	Feb. 2, 1875	189	64	7	211
Rectifying-stills	E. F. Prentiss	160,951	Mar. 16, 1875	653	213	7	455
Reclining chair	J. H. Swasey	164,607	June 15, 1875	724	236	7	1048
Reel:							
See Bolting-reel.	Harvester-reel.						
Clothes-line reel.	Hose-reel.						
Fishing-rod reel.	Ticket-reel.						
Reflector	W. R. Gardner	158,929	Jan. 19, 1875	539	185	7	116
Reflector	B. Goetz	160,584	Mar. 9, 1875	306	104	7	401
Reflector	C. M. Murch	167,187	Aug. 31, 1875	1002	312	8	373
Reflector	C. M. Murch	167,188	Aug. 31, 1875	1003	312	8	373
Reflector	G. Rosenthal	159,969	Feb. 16, 1875	698	232	7	293
Reflector and sight protector	M. M. Mendenhall	158,726	Jan. 12, 1875	346	118	7	72
Reflector, Heat	L. B. Woolfolk	165,048	June 29, 1875	1153	372	7	1119
Reflector, Street-lamp	C. Robinson	165,509	July 13, 1875	376	111	8	68
Refrigerating apparatus	G. H. Chinnock	163,576	May 25, 1875	826	261	7	886
Refrigerating apparatus	L. B. Woolfolk	171,204	Dec. 14, 1875	528	174	8	1028
Refrigerating-houses, Floor for	P. Rochevot and F. Schmidt	169,481	Nov. 2, 1875	144	47	8	755
Refrigerating-table	G. Libert	161,694	Apr. 6, 1875	90	31	7	582
Refrigerator	H. H. Barnes	167,425	Sept. 7, 1875	44	13	8	412
Refrigerator	E. S. Bitner	169,078	Oct. 26, 1875	748	244	8	693
Refrigerator	A. F. Bronner	162,793	May 4, 1875	56	18	7	754
Refrigerator	W. P. Butler	161,928	Apr. 13, 1875	312	104	7	624
Refrigerator	J. C. Clark	160,050	Feb. 23, 1875	793	261	7	313
Refrigerator	S. H. Crump	158,687	Jan. 12, 1875	313	106	7	68
Refrigerator	J. F. Ebert	168,833	Oct. 19, 1875	501	{ 163 } { 164 }	8	652
Refrigerator	E. W. Giddings	162,468	Apr. 27, 1875	842	271	7	706
Refrigerator	H. G. Gleyre	167,446	Sept. 7, 1875	60	18	8	414
Refrigerator	W. Grayson	160,422	Mar. 2, 1875	147	51, 52	7	370
Refrigerator	E. B. Jewett	170,739	Dec. 7, 1875	77	24	8	961
Refrigerator	R. Loud	166,469	Aug. 10, 1875	290	86	8	247
Refrigerator	J. L. Mason, and A. and J. M. Sinclair	164,653	June 22, 1875	778	255	7	1063
Refrigerator	J. A. Meeks	161,626	Apr. 6, 1875	32	13	7	573
Refrigerator	J. H. Ridgway	159,843	Feb. 16, 1875	582	193	7	277
Refrigerator	J. Schmelzer	167,695	Sept. 14, 1875	259	91	8	454
Refrigerator	M. Shaw	169,854	Nov. 9, 1875	537	167	8	811
Refrigerator	I. Silsby	160,357	Mar. 2, 1875	89	33	7	361
Refrigerator	E. B. Smith	169,305	Oct. 26, 1875	957	310	8	722
Refrigerator	E. B. Smith	169,306	Oct. 26, 1875	959	{ 310 } { 311 }	8	722

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Refrigerator.....	B. A. Stevens.....	167,706	Sept. 14, 1875	299	95	8	456
Refrigerator.....	B. A. Stevens.....	170,602	Nov. 30, 1875	1271	400	8	934
Refrigerator.....	J. H. Wickes.....	171,456	Dec. 21, 1875	775	256	8	1069
Refrigerator.....	L. B. Woolfolk.....	168,441	Oct. 5, 1875	105	36	8	580
Refrigerator and water-cooler.....	W. Hammel.....	168,988	Oct. 19, 1875	642	212	8	671
Refrigerator-building.....	T. Krausch.....	164,744	June 22, 1875	861	280	7	1075
Refrigerator-building floor.....	H. Voigt and H. Eilmann.....	169,866	Nov. 9, 1875	549	171	8	813
Refrigerator-car.....	R. Armiger.....	163,961	June 1, 1875	101	35	7	945
Refrigerator-car.....	J. H. Canfield.....	166,341	Aug. 3, 1875	142	44	8	219
Refrigerator-car.....	A. Thoma.....	171,591	Dec. 28, 1875	921	302	8	1097
Refrigerator-car.....	J. Turner.....	171,491	Dec. 28, 1875	826	271	8	1084
Refrigerator-floor.....	J. Tiffany.....	159,718	Feb. 9, 1875	449	150	7	255
Refrigerator for pails, &c., Removable.....	J. C. Jones.....	160,438	Mar. 2, 1875	162	56	7	372
Refrigerator for pails, &c., Removable.....	J. C. Jones.....	166,110	July 27, 1875	971	299	8	178
Refrigerator, Show-case.....	J. H. Hoffman.....	165,733	July 20, 1875	592	181	8	115
Refrigerator, Water-evaporating.....	G. B. Satterlee.....	161,062	Mar. 23, 1875	756	249		
Refrigerators, Ice-floor for.....	H. Braunlich.....	167,980	Sept. 21, 1875	549	177	8	501
Register:							
See Air-register. Hot-air register.							
Billiard-register. Laundry-register.							
Ceiling-register. Measure-register.							
Dose-register. Passenger-register.							
Fare-register. Stove-register.							
Fire-alarm register. Ventilating-register.							
Gas-meter register.							
Register.....	T. B. Doolittle.....	170,351	Nov. 23, 1875	1018	319	8	892
Register.....	F. Gresbeck and E. Müllendorff.....	169,691	Nov. 9, 1875	374	117	8	791
Register.....	F. J. and W. H. Hoyt.....	167,901	Sept. 21, 1875	492	156	8	491
Register.....	G. F. Spencer.....	170,200	Nov. 23, 1875	886	277	8	873
Registering and recording machine.....	F. W. Brooks.....	167,982	Sept. 21, 1875	551	177	8	501
Registering-gate.....	J. T. Aldrich.....	169,941	Nov. 16, 1875	627	195		
Registering-machine.....	C. M. Cady.....	165,981	July 27, 1875	849	261	8	831
Registering-machine.....	C. E. Rand and J. T. Dupont.....	160,349	Mar. 2, 1875	81	29	7	161
Regulator:							
See Air and gas regulator. Gas-regulator.							
Cistern-supply regu- Heat-regulator.							
lator. Power-regulator.							
Damper-regulator. Pressure-regulator.							
Feed-regulator. Steam or water pressure							
Feed-water regulator. regulator.							
Fire-alarm regulator. Tank-regulator.							
Flame-regulator. Watch-regulator.							
Rein-holder.....	B. F. Brown.....	167,983	Sept. 21, 1875	552	178	8	501
Rein-holder.....	J. Bulger and N. Inglis.....	165,153	July 6, 1875	7	3	8	10
Rein-holder.....	M. Cain.....	164,970	June 29, 1875	1089	351	7	1111
Rein-holder.....	H. Gilmore and J. T. Spencer.....	167,891	Sept. 21, 1875	484	153	8	490
Rein-holder.....	B. R. Hamilton.....	152,936	Jan. 19, 1875	564	187	7	117
Rein-holder.....	C. Hutehings.....	161,792	Apr. 6, 1875	172	59	7	594
Rein-holder.....	C. Osgood.....	160,028	Feb. 23, 1875	775	256	7	310
Rein-holder.....	J. D. Owen and G. M. Custer.....	167,781	Sept. 14, 1875	372	119	8	466
Rein-holder.....	G. W. Miller.....	170,759	Dec. 7, 1875	96	31	9	963
Rein-holder.....	E. N. Porter, W. E. Hawes, and C. R. Page.....	167,564	Sept. 7, 1875	162	51	8	429
Rein-holder.....	F. C. Sparhawk.....	164,229	June 8, 1875	368	125	7	991
Rein-holder and whip-socket, Combined.....	J. H. Sunderman.....	163,278	May 11, 1875	521	169	7	822
Rein holder, Check.....	J. W. Wood and E. A. Drago.....	158,818	Jan. 19, 1875	451	150	7	102
Rein-holder, Safety.....	L. Bailey.....	170,930	Dec. 14, 1875	261	87	8	993
Reins, Safety-loop for check.....	S. A. Marker.....	167,109	Aug. 24, 1875	908	283	8	353
Relishing-machine.....	E. F. Bohn.....	168,867	Oct. 19, 1875	531	174	8	656
Relishing-machine.....	W. G. Caldwell.....	160,003	Feb. 23, 1875	754	249	7	308
Relishing-machine.....	G. W. Conlee.....	164,427	June 15, 1875	575	186	7	1027
Rendering fats.....	H. Halvorsen.....	171,613	Dec. 28, 1875	956		8	1102
Rendering, Machine for cutting fats for.....	P. L. McDowell.....	164,854	June 22, 1875	962	311	7	1087
Rendering tank, Lard.....	N. Caldwell.....	168,611	Oct. 11, 1875	293	95		
Respirator and inhaler, Combined.....	J. Carrick.....	167,496	Sept. 7, 1875	99	31	8	420
Retort-charging apparatus.....	W. Foulis.....	165,667	July 20, 1875	536	163	8	106
Retort for burning and revivifying charcoal.....	F. O. Matthiessen.....	161,253	Mar. 23, 1875	945	308		
Retort for concentrating sulphuric acid.....	J. Saunders.....	171,049	Dec. 14, 1875	367	122	8	1007
Retort for furnaces.....	H. M. Smith.....	170,197	Nov. 23, 1875	883	276	8	873
Retort-lid.....	J. Herzog and R. Koch.....	159,671	Feb. 9, 1875	408	135	7	249
Reverberating furnace.....	J. Nicholson, jr.....	158,862	Jan. 19, 1875	490	165	7	107
Reverberating furnace.....	J. Price.....	169,581	Nov. 2, 1875	242	79	7	767
Reversing mechanism.....	R. B. and J. C. Chapman.....	160,877	Mar. 16, 1875	588	191	7	447
Revolution-indicator.....	C. H. Phinney.....	169,117	Oct. 26, 1875	790	256	8	699
Revolver safety-catch.....	C. W. Hopkins.....	165,098	June 29, 1875	1201	386	7	1126
Revolvers, Locking-catch for.....	F. H. Allen.....	168,549	Oct. 11, 1875	233	77	8	605
Revolving-chair base.....	W. T. Doremus.....	168,383	Oct. 5, 1875	57	20	8	573
Revolving dropper.....	J. Johnson.....	169,707	Nov. 9, 1875	389	122	8	793
Revolving furnace.....	J. Manes.....	161,620	Apr. 6, 1875	27	11	7	572
Rheumatism remedy.....	A. Severin.....	171,054	Dec. 14, 1875	377		8	1008
Ribbon-runner.....	C. Young.....	165,970	July 27, 1875	837	257	8	159
Rice-cleaning machine.....	J. B. Rupert.....	161,281	Mar. 23, 1875	971	317	7	506
Rice-hulling machine.....	J. Jouet.....	171,516	Dec. 28, 1875	854	279	8	1087
Rice-mortar.....	N. O. Tilton.....	170,787	Dec. 7, 1875	120	39	8	966
Rice, Scouring and polishing.....	P. R. Lachicotte.....	166,992	Aug. 24, 1875	800		8	337
Ridge-ventilator.....	J. S. Wightman.....	162,261	Apr. 20, 1875	622	203	7	671
Rifle, Sharpening.....	S. P. Doane.....	165,806	July 20, 1875	664	203	8	124
Ring:							
See Ear-ring. Sheet-metal ring.							
Hog-ring. Spinning-ring.							
Hollow ring. Suspending-ring.							
Key-ring.							

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River channels, Construction of jetties for improving	A. B. Mullett and F. Shumann	159,956	Feb. 16, 1875	687	228	7	291
Rivet-drilling machine	M. Bray	166,963	Aug. 24, 1875	766	237	8	333
Rivet-making machine	B. C. Quimby	170,112	Nov. 16, 1875	779	247	8	852
Rivet-setting machine	M. Bray	161,659	Apr. 6, 1875	60	22	7	578
Riveting-machine	J. F. Allen	168,314	Oct. 5, 1875	1	1	8	565
Riveting-machine	M. Bray	161,660	Apr. 6, 1875	63	23	7	578
Riveting-machine	R. H. Tweddell	165,135	June 29, 1875	1228	{ 395 396 }	7	1130
Road-engine	J. H. Bange	168,600	Oct. 11, 1875	283	92	8	611
Road-engine	R. R. Doan	158,923	Jan. 19, 1875	552	183	7	115
Road-engine	G. T. Ellis	161,217	Mar. 23, 1875	900	{ 295 296 }	7	497
Roaster: See Coffee-roaster.							
Roasting apparatus	L. Dutertre	163,167	May 11, 1875	419	136	7	809
Rock-drill	H. P. Bell	159,885	Feb. 16, 1875	626	207	7	283
Rock-drill	C. Burleigh	162,528	Apr. 27, 1875	894	286	7	713
Rock-drill	G. Frisbee	168,010	Sept. 21, 1875	579	186	8	505
Rock-drill	W. W. Goodwin	161,948	Apr. 13, 1875	327	110	7	626
Rock-drill	J. Hanrahan	158,704	Jan. 12, 1875	327	111	7	70
Rock-drill	G. H. Reynolds	162,419	Apr. 20, 1875	773	251	7	689
Rock-drill	G. H. Reynolds	164,394	June 15, 1875	538	177	7	1023
Rock-drill	G. B. Seddon and W. McFaul	169,121	Oct. 26, 1875	792	257	8	699
Rock-drill, Steam	J. C. Githens	164,990	June 29, 1875	1104	356	7	1113
Rock-drill, Steam	G. F. Nutting and J. C. Githens	161,631	Apr. 6, 1875	37	14	7	574
Rock-drill tripod	J. C. Githens	167,659	Sept. 14, 1875	259	81	7	450
Rock-drill tripod	G. H. Reynolds	164,395	June 15, 1875	540	177	7	1023
Rock-drill tripod	G. H. Reynolds	164,396	June 15, 1875	542	178	7	1023
Rock-drill tripod, Steam	G. E. Nutting and J. C. Githens	162,302	Apr. 20, 1875	658	{ 214 215 }	7	675
Rock-drills, Buffer for steam	J. C. Githens	166,273	Aug. 3, 1875	80	25	8	210
Rock-drilling engine	G. H. Reynolds	169,587	Nov. 2, 1875	247	81	8	768
Rock-drilling machine	G. Atkinson	159,376	Feb. 2, 1875	120	42	7	201
Rock-drilling machine	J. A. Beamisdarfer	161,197	Mar. 23, 1875	881	289	7	495
Rock-drilling machine	M. C. Bullock	165,539	July 13, 1875	403	121	8	72
Rock-drilling machine	C. C. Creeger	166,590	Aug. 10, 1875	388	120	7	262
Rock-drilling machine	C. Ferroux	167,324	Aug. 31, 1875	1117	351	8	390
Rock-drilling machine	A. Kirk	170,479	Nov. 40, 1875	1153	363	8	919
Rock-drilling machine	J. W. Moyer	165,681	July 20, 1875	547	167	8	108
Rock-drilling machine	E. S. Winchester	159,242	Jan. 26, 1875	867	283	7	166
Rock-drilling machine	E. S. Winchester	165,646	July 13, 1875	504	154	8	86
Rock-drilling machines, &c., Supporting-clamp for	E. S. Winchester	159,241	Jan. 26, 1875	867	282	7	165
Rock-drilling machines, Tripod for	J. B. Waring	169,389	Nov. 2, 1875	65	19	8	743
Rock-drilling mechanism	A. E. Allen	164,705	June 22, 1875	828	270	7	1070
Rocks, &c., Wedge for splitting	T. Cosbey	165,984	July 27, 1875	851	262	8	161
Rocker, Child's	B. E. Merembeck	161,537	Mar. 30, 1875	1232	396	7	548
Rocker, Child's	A. Shoeninger	161,905	Apr. 13, 1875	289	97	7	621
Rocker, seesaw, and chair, Child's combined	J. A. Crandall	161,759	Apr. 6, 1875	145	51	7	590
Rocking-chair	A. Best	169,228	Oct. 26, 1875	884	287	8	713
Rocking-chair	C. Brada	163,145	May 11, 1875	396	128	7	806
Rocking-chair	A. List	162,179	Apr. 20, 1875	548	179	7	661
Rocking-chair	C. Streit	158,869	Jan. 19, 1875	496	167	7	108
Rocking-chair	J. H. Travis	169,314	Oct. 26, 1875	968	313	8	723
Rocking-chair and swing, Convertible	S. Feust	166,269	Aug. 3, 1875	77	24	8	210
Rocking-chair bellows attachment	E. E. Sell	170,308	Nov. 23, 1875	981	307	8	886
Rocking-chair, Folding	G. McAleer	165,745	July 20, 1875	602	185	8	116
Rocking-chair, Folding	G. McAleer	166,123	July 27, 1875	984	304	8	180
Rocking-chair, Folding	A. W. Stewart	165,185	July 6, 1875	42	13	8	14
Rocking-chair, Folding	A. W. Stewart	166,726	Aug. 17, 1875	533	163	8	291
Rocking-chair, Folding	O. E. Vail	166,733	Aug. 17, 1875	543	166	8	292
Rocking-chair, Folding	G. O. Wellman	160,629	Mar. 9, 1875	344	116	7	407
Rocking-chair, Reclining	J. R. Newman	170,293	Nov. 23, 1875	968	303	8	885
Rocking-chair, Spring	S. Fallon	168,148	Sept. 28, 1875	745	235	8	534
Rocking-chairs, Attachment for stand	C. H. Hildreth	166,698	Aug. 17, 1875	506	155	8	287
Rod:							
See Connecting-rod.	Safety-switch rod.						
Fishing-rod.	Skipping-rod.						
Lightning-rod.	Stair-rod.						
Metal rod.	Sucker-rod.						
Metallic rod.	Tumbling-rod.						
Piston-rod.							
Roll-couplings, Binder for	J. Gillespie	159,814	Feb. 16, 1875	558	185	7	274
Rolls, Mechanism for operating the adjusting-screws of.	J. S. Worth	161,465	Mar. 30, 1875	1158	374	7	538
Rolls, Three-high	W. Harris and J. M. Ayer	161,786	Apr. 6, 1875	168	57, 58	7	593
Roller:							
See Anti-friction roller.	Lawn-roller.						
Barrel-roller.	Planing-machine feed-roller.						
Curtain-roller.	Shade-roller.						
Graining-roller.	Sheet-metal roller.						
Guide-roller.	Sole-buffing roller.						
Kneading-roller.	Trawl-roller.						
Land-roller.							
Roller and harrow	A. P. Allen	167,490	Sept. 7, 1875	94	29	8	420
Roller, &c., heater	T. S. Wiles	165,775	July 20, 1875	630	194	8	120
Rolling angle-iron, Roll for	A. Swift and J. E. York	159,978	Feb. 16, 1875	708	235	7	294
Rolling iron, Roll for	J. H. Webster	171,454	Dec. 21, 1875	773	256	8	1069
Rolling machine, Metal	J. Holmes	160,433	Mar. 2, 1875	156	55	7	371
Rolling machine, Tube	J. Hoskin	168,495	Oct. 5, 1875	157	51	8	587
Rolling metal, Roll for	A. R. Boluss	167,734	Sept. 14, 1875	324	103	8	459
Rolling metal, Roll for	G. P. Salisbury	168,584	Oct. 11, 1875	269	87	8	609
Rolling metal tubes, Machine for	C. L. Johnson	168,026	Sept. 21, 1875	596	190	8	507
Rolling metallic strips or ribbons, Apparatus for	S. R. Wilmot	162,732	Apr. 27, 1875	1091	346	7	737
Rolling-mill	G. A. Chalfant and I. Hahn	159,078	Jan. 26, 1875	719	{ 237 238 }	7	145
Rolling-mill	I. Hahn	164,679	June 22, 1875	800	262	7	1067

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Rolling-mill	I. Hahn	165,819	July 20, 1875	678	{ 207 208 }	{ 8 8 }	126
Rolling-mill	J. Jepson	169,907	Nov. 16, 1875	597	186	8	827
Rolling-mill	N. King and W. Scott	168,504	Oct. 5, 1875	165	54	8	588
Rolling-mill	C. H. Perkins	170,449	Nov. 30, 1875	1124	354	8	915
Rolling-mill feed device	S. Vanstone	167,861	Sept. 21, 1875	460	145	8	487
Rolling-mill fore-plate	J. I. Williams	169,070	Oct. 19, 1875	720	{ 237 238 }	{ 8 8 }	682
Rolling mill, Metal	J. I. Williams	165,290	July 6, 1875	132	40	8	27
Rolling-mill, Three-high	J. I. Williams	123,071	Oct. 19, 1875	721	238	8	682
Rolling-pin	P. Cavalier	159,643	Feb. 9, 1875	375	125	7	244
Rolling round-iron bars, Roll for	J. H. Helm	165,927	July 27, 1875	798	245	8	155
Rolling tapered bars, Machine for	T. R. Venners and R. Rowley	161,183	Mar. 23, 1875	871	285	7	493
Roof	M. A. Shepard	164,602	June 15, 1875	720	234	7	1047
Roof, Cement	I. Mills, jr	163,938	June 1, 1875	83	28	7	942
Roof, Composite	R. Lee	168,032	Sept. 21, 1875	604	194	8	508
Roof, Fire-proof	A. B. Mullett	168,277	Sept. 28, 1875	856	272	8	550
Roof, Iron	M. A. Shepard	168,587	Oct. 11, 1875	271	88	8	610
Roof, Metallic	T. M. Leslie	181,420	Mar. 30, 1875	1118	361	7	533
Roof, Metallic	J. C. Wands	162,722	Apr. 27, 1875	1082	343	7	736
Roof, Metallic	E. Watson	165,771	July 20, 1875	626	192	8	119
Roof, Sheet-metal	C. W. Evans	171,368	Dec. 21, 1875	693	229	8	1058
Roof, Slate	S. Brandt	160,078	Feb. 23, 1875	818	269	7	316
Roof, Wooden	L. Henkle	163,375	May 18, 1875	628	201	7	852
Roofing	A. Cummings	161,762	Apr. 6, 1875	147	51	7	590
Roofing and paving tile, Composition	J. P. Jeffries	159,329	Feb. 2, 1875	84	28	7	195
Roofing composition	J. A. Craig	168,142	Sept. 28, 1875	740	.....	8	534
Roofing composition	B. St. Jean	162,503	Apr. 27, 1875	876	.....	7	710
Roofing composition	L. P. Teed	169,385	Nov. 2, 1875	62	.....	8	743
Roofing composition	E. Thayer	164,233	June 8, 1875	371	.....	7	992
Roofing composition, Fire-proof	E. Kunzendorf	161,689	Apr. 6, 1875	86	30	7	581
Roofing, Fire-proof	P. G. Tyrrell	163,551	May 18, 1875	792	251	7	873
Roofing material	D. McDaniel	164,749	June 22, 1875	866	282	7	1075
Roofing, Metallic	G. Crowl	162,461	Apr. 27, 1875	836	269	7	705
Roofing, Metallic	S. T. G. Morsell	165,113	June 29, 1875	1212	390	7	1128
Roofing, Securing flexible	J. Perry	166,296	Aug. 3, 1875	102	32	8	214
Roofing-slates, Machine for trimming and punching	E. R. Davis	171,358	Dec. 21, 1875	687	226	8	1057
Roofing-tile	J. M. Lewis	160,445	Mar. 2, 1875	168	58	7	372
Roofing-tile	G. Manvel	162,836	May 4, 1875	90	30	7	759
Roofing-tile	S. Mills	161,538	Mar. 30, 1875	1232	397	7	548
Roofing-tile	L. Parker	164,203	June 8, 1875	343	117	7	988
Rope and cordage machine	L. E. Higby	158,491	Jan. 5, 1875	125	42	7	26
Rope-stretcher	C. C. Curtis	166,753	Aug. 17, 1875	558	171	8	295
Rope traction-way, Endless	A. S. Hallidie	163,865	June 1, 1875	26	8	7	934
Ropes, Tube for forming	J. Rinek	170,595	Nov. 30, 1875	1265	398	8	933
Rose-sprinkler	W. T. Vose	166,164	July 27, 1875	1025	315	8	186
Rotary engine	L. Adams	167,489	Sept. 7, 1875	93	29	8	419
Rotary engine	O. Adams	158,664	Jan. 12, 1875	294	{ 99 100 }	{ 7 7 }	65
Rotary engine	J. V. Beekman	159,066	Jan. 26, 1875	707	{ 232 233 }	{ 7 7 }	143
Rotary engine	J. W. Blodgett	170,512	Nov. 30, 1875	1184	373	8	923
Rotary engine	O. Burnett	163,572	May 25, 1875	823	260	7	885
Rotary engine	H. Cottrell	161,207	Mar. 23, 1875	890	292	7	496
Rotary engine	D. A. Deming and S. W. Wicks	159,023	Jan. 26, 1875	673	219	7	138
Rotary engine	G. T. Ellis	161,218	Mar. 23, 1875	904	296	7	498
Rotary engine	J. S. Fairfax	158,579	Jan. 12, 1875	215	73	7	54
Rotary engine	E. Frank	158,697	Jan. 12, 1875	321	109	7	69
Rotary engine	S. Gibson	165,559	July 13, 1875	420	127	8	75
Rotary engine	G. D. Harwood	168,837	Oct. 19, 1875	505	{ 165 166 }	{ 8 8 }	652
Rotary engine	W. Haven	170,365	Nov. 23, 1875	1028	322	8	894
Rotary engine	D. S. Jones	262,561	Apr. 27, 1875	922	296	7	716
Rotary engine	C. H. Kurtz	171,573	Dec. 28, 1875	904	296	8	1095
Rotary engine	E. D. Lyon	159,520	Feb. 9, 1875	284	92	7	231
Rotary engine	W. Lyon	168,035	Sept. 21, 1875	666	195	8	509
Rotary engine	H. Reily and P. G. Waldo	168,184	Sept. 28, 1875	774	{ 245 246 }	{ 8 8 }	539
Rotary engine	C. F. Roth and E. G. Barker	167,692	Sept. 14, 1875	286	91	8	454
Rotary engine	W. B. Scott	162,711	Apr. 27, 1875	1065	339	7	734
Rotary engine	W. M. Stevenson	167,134	Aug. 24, 1875	929	290	8	356
Rotary engine	A. Strean and D. Miller	167,803	Sept. 14, 1875	391	125	8	469
Rotary engine	T. E. Stuart and J. A. Emery	164,337	June 8, 1875	470	{ 155 156 }	{ 7 7 }	1005
Rotary engine	J. C. Titus	168,114	Sept. 28, 1875	707	223	8	529
Rotary engine	A. B. Vandemark	167,367	Aug. 31, 1875	1158	{ 364 365 }	{ 8 8 }	395
Rotary engine	I. Van Kersen	169,603	Nov. 2, 1875	364	85	8	770
Rotary engine	J. W. Vanorder and G. Savage	167,808	Sept. 14, 1875	399	128	8	470
Rotary engine	W. Weyhe	165,772	July 20, 1875	627	193	8	120
Rotary engine	H. G. Wood	162,875	May 4, 1875	125	41	7	763
Rotary engine and meter	J. A. Stenberg	161,909	Apr. 13, 1875	292	98	7	622
Rotary-engine bucket-wheel	B. T. Babbitt	170,328	Nov. 23, 1875	1001	314	8	890
Rotary press	W. K. Daniels	170,436	Nov. 30, 1875	1113	350	8	913
Rotary steam-engine	C. W. Floeckher	171,556	Dec. 28, 1875	887	290	8	1093
Rotary steam-engine	J. C. Johnson	169,269	Oct. 26, 1875	922	299	8	717
Roundabout	J. C. Clime	162,032	Apr. 13, 1875	392	132	7	635
Roundabout	L. Schaeffer	167,941	Sept. 21, 1875	520	166	8	496
Rowing-exercise machine	G. W. Moore	161,629	Apr. 6, 1875	35	13	7	574
Rowlock	F. E. Davis	166,193	Aug. 3, 1875	11	4	8	200
Rowlock	M. F. Davis	165,072	June 29, 1875	1175	378	7	1123
Rowlock	J. S. Dougherty	168,000	Sept. 21, 1875	568	183	8	564
Rowlock	F. D. Graves	169,537	Nov. 2, 1875	191	66	8	761
Rubber articles	H. P. Dunbar and T. C. Lothrop	170,941	Dec. 14, 1875	272	91	8	994
Rubber-coated bag	W. D. Grimshaw	160,897	Mar. 16, 1875	604	197	7	449
Rubber-coated fabric	W. Cable	166,256	Aug. 3, 1875	66		8	208

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Rubber-dam clamp	F. Hickman	158,376	Jan. 5, 1875	22	8	7	11
Rubber-dam tension-weight	T. G. Lewis	160,604	Mar. 9, 1875	324	109	7	404
Rubber from waste, Extracting	M. W. Beylikgy	168,139	Sept. 28, 1875	723	228	8	531
Rubber, Hand	R. I. Patterson	163,688	May 25, 1875	923	293	7	899
Rubber spring	D. R. Pratt	170,590	Nov. 30, 1875	1260	396	8	933
Rudder for booms, Sheer	L. W. Pond	160,347	Mar. 2, 1875	80	28	7	360
Rudder-post bearing	J. N. Bitting, sr	163,726	May 25, 1875	958	303	7	903
Rudders, Hanging	R. B. McEntire	161,140	Mar. 23, 1875	837	273	7	488
Ruffler	J. McCullough	158,428	Jan. 5, 1875	65	23	7	18
Ruffler	E. Powell	159,963	Feb. 16, 1875	693	230	7	292
Rule, Measuring	G. S. Hastings	160,904	Mar. 16, 1875	610	199	7	450
Rule, Registering board	W. M. Bullock	165,659	July 20, 1875	528	161	8	105
Rule, Stair-builder's	J. J. Robinson	160,471	Mar. 2, 1875	192	66	7	376
Ruler	H. and T. H. Belcher	159,294	Feb. 2, 1875	46	17	7	191
Ruler	G. W. Crosscup	161,761	Apr. 6, 1875	147	51	7	590
Ruler	H. J. Richardson	166,938	Aug. 24, 1875	742	230	8	330
Ruler, Parallel	H. Andrews	158,452	Jan. 5, 1875	85	30	7	21
Ruler, Parallel	J. D. Hall	170,257	Nov. 23, 1875	938	293	8	880
Ruler, Parallel	J. M. Taylor	166,320	Aug. 3, 1875	124	38	8	217
Ruling machine, Paper	T. F. Collins	159,018	Jan. 26, 1875	668	218	7	137
Ruling machine, Paper	W. O. Hickok	163,777	May 25, 1875	999	317	7	908
Ruling machine, Paper	J. Stewart	167,859	Sept. 21, 1875	458	144	8	486
Running-gear	H. Backer	164,129	June 8, 1875	277	95	7	979
Running-gear	J. Becker, jr.	158,667	Jan. 12, 1875	297	100	7	65
Running-gear	G. Barge	168,136	Sept. 28, 1875	733	231	8	532
Running-gear	L. D. Hurd	170,858	Dec. 7, 1875	179	61	8	974
Running-gear	L. C. A. Schmidt	168,586	Oct. 11, 1875	270	88	8	609
S.							
Saccharine-liquid elevator	E. P. Laree	169,712	Nov. 9, 1875	393	123	8	794
Saccharine-liquid evaporator	T. Scantlin	162,636	Apr. 27, 1875	1049	334	7	732
Sack-holder	J. L. Millhiser	166,128	July 27, 1875	988	305	8	181
Sack-holder, Adjustable	H. W. Clark	165,982	July 27, 1875	850	261	8	161
Sack-holder, Adjustable	H. W. Clark	169,959	Nov. 16, 1875	640	200	8	833
Sacks, Shaping-block for fur	J. Glass	161,607	Apr. 6, 1875	16	7	7	571
Saddle, Cart	P. McFadden	165,848	July 20, 1875	709	216	8	130
Saddle, Gig	A. Ortmyer	162,095	Apr. 13, 1875	448	149	7	642
Saddle, Harness	H. H. Hallett	165,165	July 6, 1875	18	6	8	11
Saddle, Harness	C. Kenny	163,321	May 18, 1875	579	185	7	846
Saddle, Harness	J. F. Knorr	167,544	Sept. 7, 1875	145	45	8	426
Saddle, Harness	J. Maclure	170,870	Dec. 7, 1875	189	64, 65	8	976
Saddle, Harness	J. Maclure	170,871	Dec. 7, 1875	190	65	8	976
Saddle, Harness	A. V. Sargeant	164,772	June 22, 1875	882	288	7	1078
Saddle, Harness	J. W. Schwaner	170,774	Dec. 7, 1875	110	35	8	965
Saddle, Harness	A. Teas	170,916	Dec. 7, 1875	230	79	8	981
Saddle-horse apparatus	A. Hitt	160,322	Mar. 2, 1875	61	22	7	357
Saddle, Pad	S. Herr	170,559	Nov. 30, 1875	1227	386	8	929
Saddle, Riding	C. H. Harris	161,785	Apr. 6, 1875	167	57	7	533
Saddle, Riding	R. Reiman	161,824	Apr. 6, 1875	207	70	7	598
Saddle, Riding and pack	G. E. Albee	165,973	July 27, 1875	839	258	8	160
Saddle, Spring	C. H. Harris	163,769	May 25, 1875	992	314	7	907
Saddle-tree	H. Cruikshank	168,145	Sept. 23, 1875	742	234	8	534
Saddle-tree	P. B. Horton	160,196	Feb. 23, 1875	915	301	7	330
Saddle tree, Gig	A. Ortmyer	168,844	Oct. 19, 1875	512	168	8	653
Saddle tree, Harness	A. Teas	166,907	Aug. 17, 1875	699	217	8	315
Sad-iron	S. Elliott	165,160	July 6, 1875	13	4, 5	8	10
Sad-iron	T. J. Ellyson and A. O. Askew	162,808	May 4, 1875	68	22	7	756
Sad-iron	E. M. Harris and M. H. O'Neil	165,821	July 20, 1875	684	209	8	126
Sad-iron	T. F. McEay and E. C. McClain	163,225	May 11, 1875	468	151	7	816
Sad-iron	J. M. McMaster	160,931	Mar. 16, 1875	635	207	7	453
Sad-iron	A. L. Parcelle	170,763	Dec. 7, 1875	102	32	8	964
Sad-iron	H. R. Robbins	168,050	Sept. 21, 1875	625	200	8	512
Sad-iron	O. Swift	169,496	Nov. 2, 1875	155	51	8	756
Sad-iron	T. D. West	168,859	Oct. 19, 1875	524	172	8	655
Sad-iron	J. M. Whiting	160,068	Feb. 23, 1875	811	266	7	315
Sad-iron handle	J. Webster	162,981	May 4, 1875	230	74	7	777
Sad-iron heater	J. S. Bitler	164,513	June 15, 1875	645	209	7	1036
Sad-iron heater	G. W. Cottingham	167,389	Sept. 7, 1875	9	3	8	408
Sad-iron holder	M. E. Hildreth	158,841	Jan. 19, 1875	472	158	7	105
Sad-iron, Reversible	T. T. Smothers	166,421	Aug. 3, 1875	223	67	8	230
Sad-iron, Self-heating	R. H. Hasenritter	163,312	May 18, 1875	572	183	7	845
Sad-iron shoe	E. Hartsig	163,487	May 18, 1875	729	232	7	866
Sad-iron shoe	V. C. Thebaud	168,937	Oct. 19, 1875	598	197	8	665
Sad-irons, Uniting handles to	W. J. Reagan	158,521	Jan. 5, 1875	150	50	7	30
Safe	G. Damen	159,565	Feb. 9, 1875	318	104	7	236
Safe and vault door	N. Briggs	169,337	Nov. 2, 1875	14	4	8	736
Safe and vault door lock	J. Sargent	165,370	July 6, 1875	210	63	8	37
Safe and vault doors, Bolt-works for	J. Naylor, jr., and E. Brooks	165,752	July 20, 1875	608	187	8	117
Safe, Burglar-proof	E. R. Morse	169,567	Nov. 2, 1875	228	75	8	765
Safe-cabinet, Movable	W. J. Barnes	159,380	Feb. 2, 1875	124	43	7	201
Safe, Cheese	W. P. Quackenbush	160,467	Mar. 2, 1875	188	65	7	375
Safe-deposit box	W. H. Butler	159,897	Feb. 16, 1875	635	{ 210 } { 211 }	7	284
Safe-door	J. Farrel	161,675	Apr. 6, 1875	75	27	7	580
Safe-door	N. Macneale	165,599	July 13, 1875	456	138	8	80
Safe-door	E. H. Walton and M. Hemler	168,118	Sept. 28, 1875	712	225	8	530
Safe-doors, Bolt-works for	W. H. Butler	159,791	Feb. 16, 1875	536	179	7	271
Safe, Fire-escape	T. Hackett and J. C. Crounse	160,184	Feb. 23, 1875	905	298	7	329
Safe, Fire-proof	T. Hyatt	166,107	July 27, 1875	968	298	8	178
Safe, &c., Fire-proof	W. A. Shepard	163,614	May 25, 1875	865	272	7	891
Safe, Kitchen	J. B. Harrison	169,697	Nov. 9, 1875	380	119	8	792
Safe, Milk	J. F. Pool	160,227	Feb. 23, 1875	943	310	7	334
Safe, Multiple	J. C. Hintz	164,172	June 8, 1875	317	{ 107 } { 108 }	7	985

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Safe, Provision	C. D. Harb	171, 279	Dec. 21, 1875	620	{ 202 203	{ 8	1048
Safe, vault, and other doors, Bolt for	J. Sargent	161, 283	Mar. 23, 1875	972	318	7	506
Safety-pin	P. M. Doughty	163, 304	May 18, 1875	566	181	7	844
Safety-pin	N. H. Furness and S. Wales	160, 013	Feb. 23, 1875	762	252	7	309
Safety-pin	S. F. Merritt	159, 341	Feb. 2, 1875	94	23	7	197
Safety-pin	N. M. Phillips	171, 529	Dec. 28, 1875	965	283	8	1089
Safety-pin	A. Shedlock	166, 481	Aug. 10, 1875	300	90	8	249
Safety-pocket	J. Colton	168, 376	Oct. 5, 1875	51	18	8	572
Safety-switch rod	D. Rowe	164, 398	June 15, 1875	544	178	7	1023
Sail-bending hook	E. D. Rankin	170, 966	Dec. 14, 1875	300	{ 99 100	{ 8	998
Sail-reefing device	J. Whittington	164, 242	June 8, 1875	378	129	7	993
Sails, Means of reefing and furling	E. Rawley	168, 414	Oct. 5, 1875	86	30	8	577
Sails, Reefing	I. Solomon	163, 819	May 25, 1875	1034	328	7	914
Sails, Reefing and furling gaff-top	B. P. Lecraw	167, 911	Sept. 21, 1875	499	158	8	492
Sails to spars, Metallic roband for attaching	H. B. Stephenson	160, 795	Mar. 16, 1875	523	168	7	438
Salesman's seat	S. D. Sollers	169, 381	Nov. 2, 1875	60	17	8	743
Salt and pepper box, Combined	G. H. Lomax	169, 363	Nov. 2, 1875	44	13	8	740
Salt and pepper box top	G. D. Paul	160, 346	Mar. 2, 1875	79	28	7	360
Salt and sugar, Process and apparatus for manufac- turing	J. E. Weaver and W. S. Colwell	170, 791	Dec. 7, 1875	124	40, 41	8	967
Salt apparatus	S. Lewis	170, 005	Nov. 16, 1875	679	213	8	838
Salt apparatus, Removing calcareous deposits from the exterior of tubes in	W. P. Halliday	167, 524	Sept. 7, 1875	129	39	8	424
Salt-brine, Purifying and concentrating	W. Harrison	161, 412	Mar. 30, 1875	1111	359	7	532
Sample-box	M. K. Butterfield and A. D. Hol- liday	168, 448	Oct. 5, 1875	113	38	8	581
Sample-holder, Revolving	J. H. Preater	165, 366	July 6, 1875	202	61	8	36
Sand and gravel drier	S. S. Daish	169, 895	Nov. 16, 1875	587	182	8	826
Sand and gravel heater	J. M. Perkins	170, 894	Dec. 7, 1875	210	73	8	979
Sand and gravel separator	N. J. Keller	163, 382	May 18, 1875	633	203	7	853
Sand paper-roll	O. Gilmore	166, 360	Aug. 3, 1875	157	49	8	222
Sand papering-machine	V. Hepp	159, 574	Feb. 9, 1875	324	106	7	237
Sand papering-machine	H. W. Merrill	159, 953	Feb. 16, 1875	684	227	7	291
Sand papering-machine	O. Sawyer	165, 762	July 20, 1875	616	190	8	118
Sash and blind fastener combined	J. Christie	160, 509	Mar. 9, 1875	242	83	7	392
Sash-balance	J. Berndt	160, 145	Feb. 23, 1875	873	288	7	325
Sash-balance	H. Cutting	170, 240	Nov. 23, 1875	923	287	8	878
Sash-balance	T. I. Dale	163, 920	June 1, 1875	68	23	7	940
Sash-balance	E. H. Hannum	166, 263	Aug. 3, 1875	160	49	8	222
Sash-balance	E. Johnson	164, 003	June 1, 1875	137	48	7	949
Sash-balance	W. J. Lewis	167, 677	Sept. 14, 1875	275	86	8	452
Sash-balance	J. J. Price	163, 407	May 18, 1875	656	210	7	856
Sash-balance	T. J. W. Robertson	164, 038	June 1, 1875	171	61	7	954
Sash-head fastener, Window	J. W. Tripp	170, 417	Nov. 23, 1875	1079	340	8	900
Sash-cord fastener	J. F. Collins	166, 503	Aug. 10, 1875	317	96	8	251
Sash-cord fastener	H. N. Connor	167, 744	Sept. 14, 1875	332	106	8	460
Sash-fastener	G. B. Adams	159, 880	Feb. 16, 1875	619	204	7	282
Sash-fastener	C. L. Alexander	169, 222	Oct. 26, 1875	879	286	8	712
Sash-fastener	S. D. Arnold	161, 652	Apr. 6, 1875	55	20	7	577
Sash-fastener	E. B. Beach	167, 976	Sept. 21, 1875	547	176	8	500
Sash-fastener	B. A. Berryman	166, 842	Aug. 17, 1875	634	198	8	367
Sash-fastener	J. Bittenbender	171, 262	Dec. 21, 1875	606	198	8	1046
Sash-fastener	E. K. Breckenridge	162, 614	Apr. 27, 1875	965	310	7	722
Sash-fastener	E. K. Breckenridge	170, 047	Nov. 16, 1875	716	227	8	844
Sash-fastener	E. W. Brettell	167, 822	Sept. 21, 1875	422	134	8	481
Sash-fastener	W. Brown	165, 300	July 6, 1875	141	43	8	28
Sash-fastener	W. Buechley and T. Thorn	161, 655	Apr. 6, 1875	58	21	7	577
Sash-fastener	T. J. Carroll	161, 929	Apr. 13, 1875	313	105	7	624
Sash-fastener	J. Christie	158, 780	Jan. 19, 1875	414	139	7	98
Sash-fastener	J. K. Clark	162, 031	Apr. 13, 1875	391	132	7	634
Sash-fastener	J. R. Deweese	170, 472	Nov. 30, 1875	1146	361	8	918
Sash-fastener	E. G. Felthousen	161, 020	Mar. 23, 1875	722	237	7	474
Sash-fastener	B. Fischer	170, 723	Dec. 7, 1875	63	19	8	959
Sash-fastener	C. B. Gardiner	164, 827	June 22, 1875	939	303	7	1084
Sash-fastener	J. E. Gillespie and G. Coffin	163, 008	May 11, 1875	270	88	7	790
Sash-fastener	W. Horbort	159, 678	Feb. 9, 1875	414	137	7	249
Sash-fastener	H. A. House	163, 201	May 11, 1875	451	146	7	813
Sash-fastener	J. H. Husted	160, 525	Mar. 9, 1875	256	87	7	394
Sash-fastener	M. Judd	163, 079	May 11, 1875	337	110	7	798
Sash-fastener	A. Long	164, 571	June 15, 1875	694	225	7	1043
Sash-fastener	A. C. Manning	164, 465	June 15, 1875	606	196	7	1031
Sash-fastener	G. H. Metz	161, 050	Mar. 23, 1875	747	246	7	478
Sash-fastener	P. Meyer	164, 750	June 22, 1875	867	282	7	1075
Sash-fastener	G. G. Nodde	169, 030	Oct. 19, 1875	684	225	8	677
Sash-fastener	R. L. Pruyn	167, 935	Sept. 21, 1875	516	165	8	496
Sash-fastener	P. T. Share	167, 624	Sept. 14, 1875	229	71	8	445
Sash-fastener	I. H. Stoddard	169, 494	Nov. 2, 1875	154	51	8	756
Sash-fastener	W. B. Swallow	164, 884	June 22, 1875	995	321	7	1091
Sash-fastener	J. Thorman	166, 485	Aug. 10, 1875	303	91	8	249
Sash-fastener	J. S. Wallace	162, 592	Apr. 27, 1875	948	305	7	720
Sash-fastener	T. Wilson	163, 040	May 11, 1875	303	97	7	794
Sash-fastener	J. N. Withers	159, 994	Feb. 16, 1875	723	241	7	296
Sash-fastener	I. D. Woolf	162, 600	Apr. 13, 1875	367	123	7	631
Sash-fastener, Ventilating	A. C. Manning	164, 466	June 15, 1875	607	{ 196 197	{ 7	1031
Sash-fastening	C. J. Snow	159, 365	Feb. 2, 1875	112	39	7	200
Sash-holder	F. A. Battey	160, 047	Feb. 23, 1875	791	261	7	312
Sash-holder	W. B. Blackman	163, 727	May 25, 1875	959	304	7	903
Sash-holder	R. R. Calkins	163, 635	May 25, 1875	883	278	7	893
Sash-holder	J. E. Frost and J. Merrill	169, 431	Nov. 2, 1875	101	32	8	749
Sash-holder	F. R. Glascock	158, 933	Jan. 19, 1875	562	186	7	116
Sash-holder	R. B. Hugonin	158, 495	Jan. 5, 1875	129	43	7	27
Sash-holder	S. Lewis	169, 011	Oct. 19, 1875	665	218	8	674

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Sash-holder.....	P. Lugenbell.....	170,867	Dec. 7, 1875	187	64	8	976
Sash-holder.....	H. T. Milchsack.....	171,526	Dec. 28, 1875	862	282	8	1089
Sash-holder.....	P. Mullane.....	165,856	July 20, 1875	719	219	8	131
Sash-holder.....	H. C. Perry.....	159,212	Jan. 26, 1875	842	275	7	162
Sash-holder.....	H. C. Perry.....	170,586	Nov. 30, 1875	1253	394	8	932
Sash-holder.....	W. H. Plympton.....	165,945	July 27, 1875	815	250	8	156
Sash-holder.....	S. M. Pratt.....	166,808	Aug. 17, 1875	606	188	8	302
Sash-holder.....	L. Quitman.....	160,712	Mar. 9, 1875	420	140	7	417
Sash-holder.....	J. W. Reyeroft.....	160,470	Mar. 2, 1875	191	66	7	376
Sash-holder.....	O. Rock.....	165,759	July 20, 1875	614	189	8	118
Sash-holder.....	J. Stauffer.....	167,949	Sept. 21, 1875	526	168	8	497
Sash-holder.....	J. Sweet.....	160,554	Mar. 9, 1875	280	95	7	398
Sash-holder.....	H. Torrey and D. Lyman.....	170,131	Nov. 16, 1875	797	252	8	854
Sash-holder.....	T. Walker.....	162,979	May 4, 1875	229	74	7	777
Sash-holder.....	J. B. Wilford.....	160,735	Mar. 9, 1875	443	146	7	420
Sash-holder.....	J. B. Wilford.....	168,797	Oct. 11, 1875	370	121	8	625
Sash-holder and curtain-fixture, Combined.....	J. Weathers.....	167,144	Aug. 24, 1875	940	293	8	357
Sash-lift.....	J. Sweet.....	171,249	Dec. 21, 1875	593	194	8	1044
Sash opening and closing mechanism.....	G. A. Lincoln.....	158,850	Jan. 19, 1875	479	161	7	106
Sash tightener, Window.....	J. Benson.....	167,635	Sept. 14, 1875	240	75	8	447
Sash-weight.....	E. J. Sprague.....	161,564	Mar. 30, 1875	1257	405	7	551
Sash, Window.....	W. W. Evans.....	170,834	Dec. 7, 1875	160	534	8	972
Sash, Window.....	L. P. Haradon.....	164,836	June 22, 1875	947	307	7	1085
Sash, Window.....	W. Kreitzer.....	161,342	Mar. 30, 1875	1042	339	7	523
Satchel, Knitting.....	C. McFadden.....	158,959	Jan. 19, 1875	587	195	7	119
Sausage-machine.....	J. H. Bean.....	164,416	June 15, 1875	563	183	7	1026
Sausage-machine.....	D. J. Howenstine.....	164,741	June 22, 1875	859	279	7	1074
Sausage-machine.....	H. P. Rankin.....	171,631	Dec. 28, 1875	975	316	8	1104
Sausage-meat mixer.....	J. E. Smith.....	167,031	Aug. 24, 1875	830	259	8	342
Saw.....	C. A. Brown and C. E. Sedore.....	165,152	July 6, 1875	6	2	8	9
Saw.....	W. P. Miller.....	168,338	Oct. 5, 1875	19	7	8	567
Saw attachment, Cross-cut.....	A. H. Riley.....	163,256	May 11, 1875	499	162	7	819
Saw, Band.....	A. Newball.....	161,263	Mar. 23, 1875	955	311	7	504
Saw, Band.....	G. F. Wood.....	167,721	Sept. 14, 1875	312	99	8	457
Saw-bench, Adjustable.....	D. H. Rice and J. W. Murkland.....	160,350	Mar. 2, 1875	82	29, 30	7	360
Saw-buck.....	G. Collins.....	162,799	May 4, 1875	60	19	7	755
Saw-buck.....	H. Diaston.....	169,343	Nov. 2, 1875	19	6	8	737
Saw-buck.....	R. C. Hayton and C. A. Hurlburt.....	164,556	June 15, 1875	681	221	7	1041
Saw-bucks, Wood-holder for.....	S. Hollingsworth.....	167,667	Sept. 14, 1875	267	83	8	451
Saw, Buhl.....	E. Brown.....	163,296	May 18, 1875	555	178	7	843
Saw-burring tool.....	F. J. Martin.....	159,593	Feb. 9, 1875	338	112	7	239
Saw, Butcher's.....	W. Millsbaugh.....	170,181	Nov. 23, 1875	870	272	8	871
Saw-clamp.....	S. P. Babcock.....	158,454	Jan. 5, 1875	90	31	7	22
Saw, Cross cut.....	J. E. Emerson.....	170,833	Dec. 7, 1875	159	53	8	972
Saw, Cylinder.....	J. M. Peirce and F. M. Kinsman.....	166,718	Aug. 17, 1875	527	161	8	290
Saw, Drag.....	H. H. Miller.....	165,749	July 20, 1875	605	186	8	117
Saw-filing machine.....	F. W. Benjamin.....	159,631	Feb. 9, 1875	364	121	7	243
Saw-filing machine.....	W. B. Bizzell.....	163,970	June 1, 1875	108	37	7	946
Saw-filing machine.....	J. Cleveland.....	158,470	Jan. 5, 1875	106	35, 36	7	24
Saw-filing machine.....	T. Doyle.....	162,356	Apr. 20, 1875	709	{ 230 231 }	7	681
Saw-filing machine.....	F. W. Lutts.....	169,912	Nov. 16, 1875	603	187	8	828
Saw-filing machine.....	J. McSweeney.....	163,326	May 18, 1875	585	188	7	847
Saw-filing machine.....	J. A. Wilson and E. D. Noble.....	163,834	May 25, 1875	1048	332	7	915
Saw for cutting stone, Diamond.....	H. Rung.....	168,786	Oct. 11, 1875	449	146	8	636
Saws for sawing stone, Inserting diamonds into.....	J. E. Emerson.....	167,882	Sept. 21, 1875	476	151	8	489
Saw-frame.....	W. Clemson.....	159,562	Feb. 9, 1875	316	103	7	235
Saw-frame.....	W. Hankin.....	164,449	June 15, 1875	593	192	7	1029
Saw frame, Band.....	N. T. Edson.....	159,807	Feb. 16, 1875	552	184	7	273
Saw frame, Buck.....	C. A. Hurlburt.....	165,099	June 29, 1875	1202	386	7	1126
Saw frame, Buck.....	P. B. Towle.....	168,194	Sept. 23, 1875	783	249	8	540
Saw frame, Fret.....	O. Evans.....	162,810	May 4, 1875	70	22	7	756
Saw-guard.....	D. Graves and C. O. Howes.....	162,814	May 4, 1875	72	23	7	756
Saw-guide.....	G. M. Hinkley.....	164,301	June 8, 1875	438	145	7	1001
Saw guide, Band.....	L. K. Young and C. M. Ferguson.....	165,523	July 13, 1875	387	115	8	69
Saw guide, Circular.....	J. Bryce and O. Grongberg.....	170,520	Nov. 30, 1875	1189	375	8	924
Saw-gummer.....	H. J. Cordesman, jr.....	160,395	Mar. 2, 1875	121	44	7	366
Saw-gummer.....	T. S. Disston.....	163,163	May 11, 1875	414	135	7	809
Saw-gummer.....	G. W. Griswold.....	159,318	Feb. 2, 1875	76	25	7	194
Saw-gummer.....	J. W. and T. Parker.....	171,039	Dec. 14, 1875	360	120	8	1006
Saw-gummer.....	D. Sattler.....	161,557	Mar. 30, 1875	1247	401	6	550
Saw-gummer.....	M. O. Smith.....	166,313	Aug. 3, 1875	117	36	8	216
Saw-gummer.....	S. L. Tibbals.....	158,756	Jan. 12, 1875	369	126	7	76
Saw gumming and setting machine.....	H. A. Kimball.....	168,162	Sept. 28, 1875	757	240	8	537
Saw-gumming machine.....	H. Baughman.....	169,508	Nov. 2, 1875	166	55	8	758
Saw-gumming machine.....	J. M. Smith.....	166,727	Aug. 17, 1875	534	164	8	291
Saw, Hand.....	H. Disston.....	158,921	Jan. 19, 1875	551	183	7	115
Saw, Hand.....	H. Disston.....	167,996	Sept. 21, 1875	562	181	8	503
Saw-handle.....	E. Andrews.....	159,140	Jan. 26, 1875	771	254	7	152
Saw-handle.....	A. C. Martin.....	163,325	May 18, 1875	585	187	7	847
Saw handle, Cross cut.....	E. Andrews.....	165,051	June 29, 1875	1156	372	7	1120
Saw handle, Cross cut.....	E. C. Atkins.....	171,337	Dec. 21, 1875	668	220	8	1054
Saw handle, Cross cut.....	W. J. Boynton.....	162,022	Apr. 13, 1875	384	129	7	633
Saw handle, Cross cut.....	J. L. Edgar.....	168,003	Sept. 21, 1875	570	184	8	504
Saw handle, Cross cut.....	J. E. Emerson.....	161,105	Mar. 23, 1875	804	264	7	485
Saw handle, Cross cut.....	W. Millsbaugh.....	170,961	Dec. 14, 1875	289	97	8	997
Saw handle, Cross cut.....	L. Shepard.....	168,421	Oct. 5, 1875	90	31	8	578
Saw handle, Cross cut.....	W. K. Stansbury.....	158,537	Jan. 5, 1875	162	55	7	31
Saw handle, Cross cut.....	C. M. Tanner.....	168,590	Oct. 11, 1875	274	89	8	610
Saw handle, Cross cut.....	C. M. Tanner.....	170,970	Dec. 14, 1875	304	101	8	998
Saw, Jig.....	S. B. Fuller.....	165,162	July 6, 1875	14	5	8	11
Saw, Jig.....	C. M. Hayden.....	159,412	Feb. 2, 1875	154	52	7	206
Saw, Jig.....	E. J. Wescott.....	160,043	Feb. 23, 1875	787	259	7	312
Saw, Jig.....	G. S. Williams.....	161,583	Mar. 30, 1875	1274	410	7	553
Saw jointer and gage.....	R. E. Poindexter.....	164,762	June 22, 1875	876	285	7	1077

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Saw jointing and dressing machine, Circular	W. Potter	168,580	Oct. 11, 1875	264	86	8	609
Saw-mill	G. F. Bellows	159,999	Feb. 23, 1875	746	247	7	307
Saw-mill	H. D. Hall	158,703	Jan. 12, 1875	327	111	7	70
Saw-mill	C. Lindner	159,589	Feb. 9, 1875	335	111	7	239
Saw-mill	L. W. Pond	160,348	Mar. 2, 1875	81	28	7	360
Saw-mill	D. C. Prescott	161,352	Mar. 30, 1875	1050	342	7	524
Saw-mill	A. Rodgers	163,259	May 11, 1875	502	163	7	820
Saw-mill	A. Rodgers	171,173	Dec. 14, 1875	492	162	8	1023
Saw-mill	W. T. Wayne	165,521	July 13, 1875	386	115	8	69
Saw-mill, Circular	F. M. Covell	161,935	Apr. 13, 1875	318	106	7	625
Saw-mill, Circular	C. M. Fairbanks	162,279	Apr. 20, 1875	637	208	7	673
Saw-mill, Circular	J. W. Miles	162,088	Apr. 13, 1875	441	147	7	641
Saw-mill, Circular	D. Rawson	166,170	July 27, 1875	1031	317	8	187
Saw-mill dog	W. M. Ferry	158,693	Jan. 12, 1875	318	108	7	69
Saw-mill, Gang	F. E. Town	161,299	Mar. 23, 1875	985	322	7	508
Saw-mill head-block	T. Dilger and W. R. Dunn	167,511	Sept. 7, 1875	114	36	8	422
Saw-mill head-block	C. R. Ely	163,309	May 18, 1875	569	182	7	845
Saw-mill head-block	W. Glue	163,473	May 18, 1875	711	228	7	864
Saw-mill head-block	J. R. Jackson	158,496	Jan. 5, 1875	131	43	7	27
Saw-mill head-block	J. Osgood	160,116	Feb. 23, 1875	849	279	7	321
Saw-mill head-block	G. M. Pelton	167,194	Aug. 31, 1875	1008	313	8	374
Saw-mill head-block	R. P. Perry and O. S. Mote	166,222	Aug. 3, 1875	35	11	8	204
Saw-mill head-block	L. W. Pond	165,946	July 27, 1875	815	250	8	156
Saw-mill head-block	A. Rodgers	161,279	Mar. 23, 1875	968	316	7	506
Saw-mill head-block	N. Shaw	161,066	Mar. 23, 1875	759	250	7	479
Saw-mill head-block	F. N. Whitcomb and D. Rawson	159,236	Jan. 26, 1875	862	281	7	165
Saw-mill head-block	F. N. Whitcomb	160,982	Mar. 16, 1875	679	223	7	460
Saw-mill head-block	F. N. Whitcomb	160,983	Mar. 16, 1875	681	223	7	460
Saw-mill head-block	S. White	171,494	Dec. 28, 1875	832	273	8	1085
Saw-mill set-work	J. W. Stokoe	161,294	Mar. 23, 1875	981	321	7	507
Saw, Scroll	J. M. Bengler	160,144	Feb. 23, 1875	872	288	7	325
Saw, Scroll	W. H. Briggs	170,048	Nov. 16, 1875	717	227	8	844
Saw-set	F. C. Barber	170,657	Dec. 7, 1875	4	1	8	951
Saw-set	W. Burgess	169,444	Oct. 26, 1875	811	263	8	702
Saw-set	H. Disston	163,162	May 11, 1875	414	135	7	809
Saw-set	G. N. Gove	171,375	Dec. 21, 1875	701	231	8	1059
Saw-set	R. J. Granville	161,950	Apr. 13, 1875	328	110	7	626
Saw-set	H. Heinicke	159,413	Feb. 2, 1875	155	52	7	206
Saw-set	A. E. Hoffmann	165,332	July 6, 1875	172	52	8	32
Saw-set	J. B. Titus	159,979	Feb. 16, 1875	709	235	7	294
Saw-set	J. E. Whiting	165,464	July 13, 1875	338	99	8	61
Saw-setting device	L. A. Greely	166,522	Aug. 10, 1875	332	101	8	254
Saw setting, filing, and jointing device	W. Bryson	162,796	May 4, 1875	58	19	7	754
Saw-setting machine	R. Heunsch and L. Beyer	163,776	May 25, 1875	998	316	7	908
Saw-sharpener	J. and J. A. Crook	158,404	Jan. 5, 1875	46	16	7	15
Saw sharpener, Gin	J. Mizell and J. Revell	158,964	Jan. 19, 1875	590	196	7	120
Saw-sharpener machine	P. D. Burgher	163,974	June 1, 1875	112	38	7	946
Saw-sharpener machine	P. D. Burgher	164,068	June 1, 1875	200	72	7	958
Saw-sharpener machine	J. L. Knowlton	162,392	Apr. 20, 1875	747	243	7	686
Saw-sharpener machine	J. A. Miller	164,470	June 15, 1875	610	197	7	1032
Saw-teeth	W. P. Hale	162,061	Apr. 13, 1875	421	140	7	638
Saw-teeth, Circular	A. F. Diamond	171,604	Dec. 28, 1875	932	305	8	1099
Saw-teeth, Insertible	E. Smith	162,319	Apr. 20, 1875	672	219	7	677
Saw-teeth swaging and setting device	M. J. Rahilly	163,252	May 11, 1875	496	161	7	819
Saw wheel, Band	F. Gleason	165,323	July 6, 1875	165	50	8	31
Saws, Rest for hardening and tempering circular	A. Schulte	168,927	Oct. 19, 1875	590	195	8	664
Sawing-machine	S. W. C. Adams	170,797	Dec. 7, 1875	130	43	8	968
Sawing-machine	E. Benjamin	165,436	July 13, 1875	306	90	8	57
Sawing-machine	R. R. Boyd and H. G. Fox	160,256	Mar. 2, 1875	3	2	7	349
Sawing-machine	G. W. Bugbee	163,453	May 18, 1875	694	221	7	861
Sawing-machine	F. M. Carnahan	168,226	Sept. 28, 1875	808	257	8	544
Sawing-machine	J. Gebr	160,892	Mar. 16, 1875	600	196	7	448
Sawing-machine	O. T. Gronner	165,325	July 6, 1875	167	51	8	31
Sawing-machine	W. O. Hale	160,899	Mar. 16, 1875	606	198	7	449
Sawing-machine	N. M. Miller	160,939	Mar. 16, 1875	643	209	7	454
Sawing-machine	N. M. Miller	169,282	Oct. 26, 1875	933	303	8	719
Sawing-machine	A. T. Nichols	166,887	Aug. 17, 1875	682	211	8	312
Sawing-machine	C. Pease and G. W. Whitacre	167,561	Sept. 7, 1875	160	50	8	429
Sawing machine, Band	W. W. Carey	170,814	Dec. 7, 1875	143	48	8	970
Sawing machine, Band	W. C. Margedant	170,577	Nov. 30, 1875	1241	391	8	931
Sawing machine, Band	P. Prybil	169,035	Oct. 19, 1875	688	227	8	677
Sawing machine, Band	B. D. Whitney	165,463	July 13, 1875	337	98,99	8	61
Sawing machine, Re	J. First	166,355	Aug. 3, 1875	154	47	8	221
Sawing machine, Re	J. Gerhardt	158,699	Jan. 12, 1875	323	110	7	69
Sawing machine, Scroll	H. L. Beach	163,843	June 1, 1875	7	2	7	931
Sawing machine, Scroll	J. Hale	160,768	Mar. 16, 1875	497	161	7	434
Sawing machine, Scroll	E. Herzig	168,995	Oct. 19, 1875	649	214	8	672
Sawing machine, Scroll	I. P. Hicks	168,019	Sept. 21, 1875	590	189	8	506
Sawing machine, Scroll	W. H. Kimball	169,553	Nov. 2, 1875	213	70	8	763
Sawing machine, Scroll	W. C. Margedant	170,578	Nov. 30, 1875	1246	392	8	931
Sawing machine, Scroll	R. McConnell	160,217	Feb. 23, 1875	935	307	7	333
Sawing machine, Scroll	G. Mercer	166,126	July 27, 1875	986	305	8	181
Sawing machine, Scroll	J. H. Plummer	168,920	Oct. 19, 1875	585	193	8	663
Sawing machine, Scroll	L. C. Pratt	169,475	Nov. 2, 1875	138	45	8	754
Sawing machine, Scroll	J. H. Roberts	165,757	July 20, 1875	612	189	8	118
Sawing machine, Scroll	E. Smith	167,794	Sept. 14, 1875	382	122	8	467

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Sawing machine, Scroll.....	F. D. Smith.....	170,456	Nov. 30, 1875	1130	356	8	916
Sawing machine, Scroll.....	C. N. and S. N. Trump.....	162,588	Apr. 27, 1875	945	304	7	719
Sawing machine, Scroll.....	E. J. Wescott and W. H. McGregor.....	164,787	June 22, 1875	898	292	7	1080
Sawing machine, Scroll.....	G. S. Young.....	161,585	Mar. 30, 1875	1277	{ 410 411 }	7	534
Scaffold.....	W. Burge.....	163,733	May 25, 1875	964	305	7	904
Scaffold.....	J. Lapp and J. W. Sweet.....	159,032	Jan. 26, 1875	681	224	7	139
Scaffold.....	D. C. Place.....	170,391	Nov. 23, 1875	1056	332	8	897
Scaffold.....	C. G. Reed.....	163,329	May 18, 1875	589	{ 188 189 }	7	848
Scaffold.....	J. E. Sanders.....	164,771	June 22, 1875	882	288	7	1078
Scaffold.....	J. A. Shannon.....	160,475	Mar. 2, 1875	195	67	7	376
Scaffold.....	L. W. Swafford.....	167,588	Sept. 7, 1875	186	57	8	432
Scaffold, Adjustable.....	H. Hilliker.....	169,904	Nov. 16, 1875	595	185	8	827
Scaffold-bracket.....	S. N. Fisher.....	159,309	Feb. 2, 1875	57	21	7	192
Scaffold-clamp.....	W. C. Fellows.....	162,541	Apr. 27, 1875	906	289	7	714
Scaffold-clamp.....	W. C. Fellows.....	166,759	Aug. 17, 1875	562	173	8	296
Scaffold, Traversing.....	D. R. Kelly.....	169,270	Oct. 26, 1875	923	299	8	717
Scale and balance stand.....	R. Murdock.....	165,114	June 29, 1875	1213	390	7	1128
Scale-beam.....	E. A. Chameroy.....	169,415	Nov. 2, 1875	88	27	8	747
Scale-beam.....	W. T. Robinson.....	164,938	June 29, 1875	1064	343	7	1107
Scale-beam.....	T. Tebow.....	161,575	Mar. 30, 1875	1268	498	7	552
Scale-beam.....	T. Tebow.....	161,576	Mar. 30, 1875	1269	498	7	552
Scale-levers, Casting.....	T. Alsen.....	159,957	Feb. 16, 1875	688	229	7	291
Scales.....	O. T. Baker.....	163,135	May 11, 1875	386	125	7	805
Scales.....	H. T. Budge.....	162,024	Apr. 13, 1875	385	129	7	634
Scales, Coin.....	H. S. Cochran.....	161,098	Mar. 23, 1875	797	{ 261 262 }	7	484
Scales, Device for raising and lowering cattle-racks on platform.....	P. C. Dockstader.....	165,217	July 6, 1875	72	21	8	18
Scales, Letter.....	A. Turnbull.....	166,569	Aug. 10, 1875	371	114	8	260
Scales, Platform.....	S. J. Austin.....	163,440	May 18, 1875	682	218	7	860
Scales, Platform.....	L. D. Berry.....	160,381	Mar. 2, 1875	109	39	7	364
Scales, Platform.....	A. W. Hess.....	168,996	Oct. 19, 1875	650	214	8	672
Scales, Postal weigh.....	T. Lanston.....	161,130	Mar. 23, 1875	826	270	7	487
Scales, Railway-track.....	T. Fairbanks.....	168,629	Oct. 11, 1875	312	{ 101 102 }	8	616
Scales, Railway-track.....	T. Fairbanks.....	169,630	Nov. 9, 1875	305	98	8	783
Scales, Railway-track.....	J. H. Usher.....	163,423	May 18, 1875	668	214	7	858
Scales, Spring.....	A. Harper and L. W. Cross.....	171,016	Dec. 14, 1875	343	114	8	1003
Scales, Trileaf.....	L. H. Crane and A. A. Miner.....	165,476	July 13, 1875	348	102	8	63
Scales, Weighing.....	T. Fairbanks.....	163,060	May 11, 1875	321	{ 103 104 }	7	796
Scales, Weighing.....	J. Foller.....	163,174	May 11, 1875	425	138	7	810
Scales, Weighing.....	W. W. Reynolds.....	170,191	Nov. 23, 1875	877	274	8	872
Scales, Weighing.....	T. D. Stetson.....	167,705	Sept. 14, 1875	298	94, 95	8	455
Scales, Weighing.....	H. M. Weaver.....	166,046	July 27, 1875	907	280	8	169
Scales, Weighing.....	H. C. Wingate.....	166,575	Aug. 10, 1875	375	115	8	260
Scarf.....	A. Mueller.....	159,112	Jan. 26, 1875	750	247	7	149
Scarf-retainer.....	W. H. Hart, jr.....	168,992	Oct. 19, 1875	646	213	8	672
Scarf-slide clasp.....	A. Komp.....	159,421	Feb. 2, 1875	161	54	7	207
School-house chair.....	P. Miha.....	169,914	Nov. 16, 1875	605	188	8	828
School-room heater.....	J. M. Reddy.....	168,106	Sept. 28, 1875	701	221	8	528
School-seat.....	B. Allen.....	163,622	May 25, 1875	872	275	7	892
School-seat.....	W. A. Bradford.....	170,810	Dec. 7, 1875	140	46, 47	8	969
School-seat.....	S. L. Melhorn.....	169,826	Nov. 9, 1875	510	160	8	808
School-seat.....	I. N. Peirce.....	163,605	May 25, 1875	858	270	7	890
Scoop, Sifting.....	W. S. Boon.....	170,152	Nov. 23, 1875	844	264	8	867
Scoop, Sugar.....	G. W. Woodward.....	171,252	Dec. 21, 1875	596	195	8	1045
Scourer: See Grain-scourer.							
Scouring white goods, Compound for.....	M. Mayer.....	161,139	Mar. 23, 1875	837	.....	7	488
Scraper.....	E. Dickinson.....	164,532	June 15, 1875	661	214	7	1038
Scraper.....	J. McGill.....	160,882	Aug. 17, 1875	678	210	8	312
Scraper, Box.....	G. Meyer.....	162,568	Apr. 27, 1875	927	298	7	717
Scraper, Box.....	G. Meyer.....	166,540	Aug. 10, 1875	345	106	8	256
Scraper, Box.....	A. W. Tuckerman.....	161,181	Mar. 23, 1875	870	285	7	493
Scraper, Coke-oven.....	P. M. Buttermore.....	168,968	Oct. 19, 1875	625	207	8	669
Scraper, Earth.....	D. Irwin.....	168,334	Oct. 5, 1875	16	6	8	567
Scraper, Flue.....	A. Fisher.....	168,891	Oct. 19, 1875	550	180	8	659
Scraper, Pot.....	U. Cramer.....	163,918	June 1, 1875	66	22	7	939
Scraper, Road.....	E. A. Beach.....	163,842	June 1, 1875	6	2	7	931
Scraper, Road.....	B. Goodrich.....	162,746	May 4, 1875	10	4	7	748
Scraper, Road.....	E. Huber.....	167,668	Sept. 14, 1875	267	84	8	451
Scraper, Road.....	A. McCall, J. T. Watkins, and J. S. Scott.....	160,535	Mar. 9, 1875	265	90	7	395
Scraper, Road.....	J. L. McKeen.....	162,846	May 4, 1875	99	32	7	760
Scraper, Road.....	W. T. Nichols.....	158,861	Jan. 19, 1875	489	{ 164 165 }	7	107
Scraper, Road.....	F. W. Schultz.....	171,433	Dec. 21, 1875	757	249	8	1066
Scraper, Road.....	W. Smith.....	161,288	Mar. 23, 1875	976	319	7	507
Scraper, Road.....	J. W. Wilson.....	166,052	July 27, 1875	913	282	8	170
Scraper, Track.....	S. A. Otis.....	163,943	June 1, 1875	89	30	7	943
Scraper, Wagon-wheel.....	N. Sage.....	168,675	Oct. 11, 1875	350	114	8	622
Screen:							
See Camera-screen.	Oats-screen.						
Coal-screen.	Paper-pulp screen.						
Door-screen.	Window-screen.						
Fire-place screen.							
Screen.....	G. W. Brown.....	162,895	May 4, 1875	144	46	7	766
Screen.....	L. Fitzpatrick.....	170,440	Nov. 30, 1875	1116	351	8	914
Screw and toggle-lever press.....	R. Butterworth.....	161,751	Apr. 6, 1875	140	48	7	589
Screw attachment for picture-nails.....	T. C. Richards.....	169,921	Nov. 16, 1875	611	189	8	829
Screw-blank feeder.....	W. Aiken.....	160,990	Mar. 23, 1875	695	229	7	471

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Screw-blanks, Machine for pointing and threading....	W. Aiken.....	162,453	Apr. 27, 1875	829	267	7	705
Screw blanks, Manufacturing wood	J. Frearson	162,642	Apr. 27, 1875	987	{ 317 318 }	7	725
Screw blanks, Mechanism for shaving, nicking, &c., } wood. }	J. A. Bidwell and J. N. B. Jaquith	160,000	Feb. 23, 1875	747	{ 247 248 }	7	307
Screw cap, Wood.....	H. T. Blake	160,148	Feb. 23, 1875	875	289	7	325
Screw, Coffin	F. W. Cabott.....	169,889	Nov. 16, 1875	583	181	8	825
Screw, Coffin	W. M. Smith.....	167,578	Sept. 7, 1875	174	55	8	431
Screw-cutting die.....	M. A. Griffith	162,914	May 4, 1875	161	53	7	768
Screw-cutting die.....	R. C. Nugent.....	166,710	Aug. 17, 1875	525	161	8	290
Screw-cutting die.....	V. J. Reece	164,481	June 15, 1875	619	200	7	1033
Screw-cutting die.....	V. J. Reece	170,768	Dec. 7, 1875	105	33	8	964
Screw-cutting die.....	J. C. Sherman.....	168,349	Oct. 5, 1875	27	10	8	568
Screw-cutting die.....	G. R. Stetson.....	167,035	Aug. 24, 1875	833	260	8	343
Screw-cutting-die holder	J. J. Grant.....	170,949	Dec. 14, 1875	279	94	8	995
Screw-cutting-die plate	H. Griffing.....	161,679	Apr. 6, 1875	78	28	7	580
Screw-cutting machine	G. Emig	170,160	Nov. 23, 1875	850	266	8	868
Screw-cutting machine, Wood	G. W. Chamberlin and S. G. Cushing.	167,988	Sept. 21, 1875	556	179	8	502
Screw-die press.....	H. Blundell	170,984	Dec. 14, 1875	317	105	8	1000
Screw-driver	J. C. Cowles.....	164,638	June 22, 1875	765	251	7	1062
Screw-driver	W. F. Patterson.....	158,807	Jan. 19, 1875	441	147	7	101
Screw-driver	W. F. Patterson.....	160,543	Mar. 9, 1875	272	92	7	396
Screw-driver	W. F. Patterson.....	161,056	Mar. 23, 1875	752	248	7	478
Screw-driver	W. F. Patterson.....	163,401	May 18, 1875	652	208	7	856
Screw-driver	W. F. Patterson.....	165,685	July 20, 1875	551	168	8	108
Screw-fastening	J. O. Ahlstrom	170,041	Nov. 16, 1875	709	225	8	843
Screw-heads, Applying caps to.....	G. Hookham	161,231	Mar. 23, 1875	917	300	7	500
Screw heads, Machine for shaping metal.....	C. M. Spencer	166,423	Aug. 3, 1875	224	68	8	230
Screw, Jack	C. K. Marshall	161,974	Apr. 13, 1875	347	117	7	628
Screw, Knob	W. F. Arnold	171,078	Dec. 14, 1875	399	132	8	1011
Screw machine, Metal	J. F. Webster	166,166	July 27, 1875	1026	316	8	186
Screw machine, Wood	C. Elliott	163,059	May 11, 1875	319	{ 102 103 }	7	796
Screw-making machine, Metal	A. W. Gifford	168,150	Sept. 28, 1875	746	235	8	535
Screw-plate	G. R. Stetson.....	160,362	Mar. 2, 1875	93	34	7	362
Screw-press	J. H. Clapp	164,637	June 22, 1875	764	251	7	1062
Screw-press	J. J. Crawford	158,685	Jan. 12, 1875	312	106	7	67
Screw-press	A. Hathaway	170,950	Dec. 14, 1875	279	94	8	995
Screw-press	W. H. H. Minge.....	161,539	Mar. 30, 1875	1233	397	7	548
Screw-tap	E. Reynolds.....	170,398	Nov. 23, 1875	1063	334	8	898
Screw-tap	J. E. Sweet.....	166,318	Aug. 3, 1875	121	38	8	216
Screw-tap	T. S. Wild	160,559	Mar. 9, 1875	285	97	7	398
Screw-tap-cutting machine	H. E. Boyd.....	169,080	Oct. 26, 1875	749	{ 244 245 }	8	693
Screw-thread cutters, Manufacture of.....	T. T. Nash.....	168,577	Oct. 11, 1875	261	85	8	605
Screw-threads, Die for swaging right and left inter- secting.	T. Beddow and A. T. Jackson.	168,214	Sept. 28, 1875	799	254	8	542
Screw-threading chuck	W. Aiken.....	162,137	Apr. 20, 1875	509	168	7	657
Screw-threading die.....	F. Rhind.....	164,764	June 22, 1875	877	286	7	1077
Screw-threading die.....	F. E. Wells.....	161,311	Mar. 23, 1875	996	326	7	509
Screw-threading die.....	F. E. Wells.....	162,983	May 4, 1875	232	75	7	778
Screw-threading machine.....	C. T. Litchfield.....	162,931	May 4, 1875	179	59	7	770
Screw-threading machine.....	E. Nugent.....	171,037	Dec. 14, 1875	358	119	8	1005
Screw-threading machine.....	F. P. Sheldon.....	170,496	Nov. 30, 1875	1166	369	8	921
Screw-threading machine, Wood.....	B. A. Mason.....	166,121	July 27, 1875	980	{ 302 303 }	8	180
Screw-threading machine.....	F. B. Prindle and J. T. Kennedy.	165,367	July 6, 1875	202	61, 62	8	36
Screw, Wood	A. Cummings.....	161,390	Mar. 30, 1875	1091	354	7	530
Screw, Wood	C. T. Litchfield and R. Boeklen..	161,528	Mar. 30, 1875	1223	393	7	547
Screw, Wood	C. T. Litchfield and R. Boeklen..	161,529	Mar. 30, 1875	1224	393	7	547
Screw-wrench.....	J. H. Coes.....	171,550	Dec. 28, 1875	882	289	8	1092
Screws from caoutchouc, Mold for manufacturing.....	G. H. Roberts.....	160,235	Feb. 23, 1875	950	312	7	336
Scuttle-elevator	F. A. Smith.....	161,641	Apr. 6, 1875	46	17	7	575
Scythe-snath-bending machine.....	J. H. Russell and G. Birner	169,120	Oct. 26, 1875	792	257	8	699
Seal-escutcheon	E. J. Brooks.....	164,800	June 22, 1875	914	296	7	1081
Seal-lock	A. T. Boon	169,231	Oct. 26, 1875	886	288	8	713
Seal-lock	J. S. Brown	165,915	July 27, 1875	781	240	8	153
Seal-lock	W. H. Darling	162,805	May 4, 1875	64	21	7	755
Seal-lock	C. C. Gale and G. F. David.....	161,023	Mar. 23, 1875	724	238	7	475
Seal-lock	J. Kinzer	160,336	Mar. 2, 1875	71	25	7	359
Seal-lock	J. Kinzer	160,337	Mar. 2, 1875	72	26	7	359
Seal-lock	J. Kinzer	160,338	Mar. 2, 1875	74	26	7	359
Seal-lock	J. N. Smith.....	160,962	Mar. 16, 1875	663	216	7	457
Seal-lock	L. I. Todd.....	165,384	July 6, 1875	228	69	8	39
Seal-lock	C. O. Wheeler and A. Laffrey	160,493	Mar. 2, 1875	214	74	7	379
Seal-lock	A. F. Whiting	168,070	Sept. 21, 1875	653	207	8	515
Seal-lock, Combination	H. Clarke	164,522	June 15, 1875	652	211	7	1037
Seal, Metallic	E. J. Brooks.....	161,475	Mar. 30, 1875	1169	376	7	539
Seal, Metallic	F. C. Hamilton	167,525	Sept. 7, 1875	129	39	8	424
Sealing device, Hermetic	T. Roberts.....	169,480	Nov. 2, 1875	142	46	8	755
Seam for garments, Elastic	H. A. Blanchard	162,019	Apr. 13, 1875	382	128	7	633
Seam for leather-work	S. W. Shorey	162,424	Apr. 20, 1875	778	253	7	690
Seaming-machine	W. J. Gordon	160,265	Mar. 2, 1875	9	4	7	350
Seaming-machine, Can	W. J. Gordon	170,727	Dec. 7, 1875	67	21	8	959
Seaming-machine, Double.....	F. Kenney	160,775	Mar. 16, 1875	503	163	7	435
Seasoning-cup	J. Coulthard	161,484	Mar. 30, 1875	1179	378	7	540
Seat:							
See Bath-tub seat.	Salesman's seat.						
Car-seat.	School-seat.						
Carriage-seat.	Spring-seat.						
Carriage jump-seat.	Valve-seat.						
Chair-seat.	Vehicle-seat.						
Circus-seat.	Wagon-seat.						
Harvester-seat.	Water-closet seat.						

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Seat, &c., spring.....	J. A. Stevenson.....	160, 123	Feb. 23, 1875	854	282	7	322
Sectional boiler.....	B. T. Babbitt.....	167, 292	Aug. 31, 1875	1090	342	8	386
Sectional boiler.....	J. Firmenich and F. P. Striker.....	169, 977	Nov. 16, 1875	655	205	8	835
Sectional boiler.....	H. F. King.....	162, 928	May 4, 1875	174	58	7	770
Sectional boiler, Cast-iron.....	J. F. Daniels.....	167, 438	Sept. 7, 1875	53	16	8	413
Seed and guano distributor.....	R. Sappelt.....	163, 108	May 11, 1875	363	118	7	802
Seed and guano distributor.....	A. H. Simms.....	169, 199	Oct. 26, 1875	855	278	8	709
Seed-drill.....	W. A. McClintock.....	165, 603	July 13, 1875	459	140	8	80
Seed-drill.....	J. R. Symmes.....	164, 781	June 22, 1875	893	291	7	1079
Seed drill and planter.....	L. L. Haworth.....	160, 592	Mar. 9, 1875	313	106	7	402
Seed drill, Cotton.....	H. Steckler, jr.....	162, 322	Apr. 20, 1875	674	220	7	677
Seed-drills, Grain-distributor for.....	C. F. Johnson, jr.....	169, 813	Nov. 9, 1875	496	156	8	807
Seed-dropper.....	E. M. Morgan.....	160, 611	Mar. 9, 1875	330	111	7	405
Seed-dropper.....	J. T. Wright.....	169, 072	Oct. 19, 1875	722	239	8	682
Seed, Machine for gathering grass.....	J. K. Symmes.....	167, 280	Aug. 31, 1875	1079	337	8	384
Seed-planter.....	W. C. Champion.....	168, 718	Oct. 1, 1875	387	126	8	627
Seed-separator.....	J. L. Catchpole and F. F. and T. F. Stidolph.....	171, 502	Dec. 28, 1875	842	276	8	1086
Seeds, Machine for crushing oleaginous.....	A. B. Lawther.....	161, 691	Apr. 6, 1875	88	31	7	581
Seeds, Machine for moistening oleaginous.....	A. B. Lawther.....	163, 933	June 1, 1875	80	27	7	942
Seeds, Treating oleaginous.....	A. B. Lawther.....	168, 164	Sept. 28, 1875	759	.....	8	537
Seeder and cultivator sifting device.....	W. A. Van Brunt.....	169, 602	Nov. 2, 1875	363	85	8	769
Seeder slip-teeth.....	G. D. Rowell.....	160, 547	Mar. 9, 1875	275	93	7	397
Seeders and cultivators, Yielding teeth for.....	C. P. Hewett.....	171, 566	Dec. 28, 1875	899	294	8	1094
Seeding-machine.....	J. C. Barlow.....	162, 599	Apr. 27, 1875	953	306	7	721
Seeding-machine.....	J. B. Bushnell.....	164, 635	June 22, 1875	761	250	7	1061
Seeding-machine.....	S. Dixon.....	158, 407	Jan. 5, 1875	48	17	7	16
Seeding-machine.....	C. E. Patric.....	159, 210	Jan. 26, 1875	837	275	7	161
Seeding machine, Broadcast.....	D. Buist and C. E. Alden.....	161, 747	Apr. 6, 1875	136	47	7	588
Seedlings-puller.....	J. S. Swaney.....	168, 427	Oct. 5, 1875	95	33	8	578
Separating substances of different specific gravity, Machine for.....	A. B. Stanberrie.....	170, 312	Nov. 23, 1875	984	308	8	887
Separators:							
See Clover-separator. Nail-separator.							
Coal-separator. Ore-separator.							
Coal and ore separator. Pin-separator.							
Cranberry-separator. Sand and gravel separator.							
Grain-separator.							
Service coupler-pipe.....	L. S. Chapman.....	160, 305	Mar. 2, 1875	42	16	7	355
Settee.....	J. P. Sayles.....	168, 053	Sept. 21, 1875	627	201	8	512
Settee.....	W. F. Spencer.....	162, 707	Apr. 27, 1875	1060	338	7	733
Settee, Lawn.....	H. H. Gratz.....	160, 421	Mar. 2, 1875	146	51	7	369
Sewage apparatus.....	R. A. McCauley.....	163, 095	May 11, 1875	351	{ 114 } { 115 }	7	801
Sewer.....	L. A. Gouch.....	161, 222	Mar. 23, 1875	910	298	7	499
Sewer-basin.....	P. Brady and G. M. Ward.....	170, 660	Dec. 7, 1875	6	2	8	951
Sewer-inlet trap.....	J. McGuire.....	162, 403	Apr. 20, 1875	759	246	7	687
Sewer-junction indicator.....	J. H. Stanley.....	166, 314	Aug. 3, 1875	119	37	8	216
Sewer-man-hole cover.....	D. H. Fernald.....	167, 444	Sept. 7, 1875	59	18	8	414
Sewer-trap.....	C. Lewis.....	166, 116	July 27, 1875	975	301	8	179
Sewer-trap.....	J. Naughten.....	164, 024	June 1, 1875	155	55	7	952
Sewer-trap and mold, Cement.....	D. Copeland, jr.....	166, 916	Aug. 24, 1875	722	224	8	327
Sewers and sinks, Apparatus for emptying.....	R. Boeklen.....	167, 384	Sept. 7, 1875	3	1	8	407
Sewing buttons to cloth, Machine for.....	J. C. Taft.....	170, 784	Dec. 7, 1875	119	38	8	966
Sewing-cabinet.....	A. Fostevin.....	167, 589	Sept. 7, 1875	187	58	8	432
Sewing-case.....	J. B. Stearns, jr.....	168, 538	Oct. 5, 1875	201	66	8	593
Sewing-machine.....	J. H. Applegate and C. B. Webb.....	161, 087	Mar. 23, 1875	782	257	7	482
Sewing-machine.....	J. W. Bartlett and F. Plaut.....	159, 065	Jan. 26, 1875	706	232	7	143
Sewing-machine.....	W. G. Beckwith.....	167, 382	Sept. 7, 1875	2	1	8	407
Sewing-machine.....	H. A. Blanchard.....	161, 471	Mar. 30, 1875	1163	375	7	539
Sewing-machine.....	H. A. Blanchard.....	161, 472	Mar. 30, 1875	1165	375	7	539
Sewing-machine.....	S. B. Brown.....	167, 640	Sept. 14, 1875	244	76	8	447
Sewing-machine.....	J. H. Burr.....	161, 478	Mar. 30, 1875	1171	376	7	540
Sewing-machine.....	J. Carter.....	165, 711	July 20, 1875	572	175	8	112
Sewing-machine.....	F. Chase.....	170, 345	Nov. 23, 1875	1013	318	8	891
Sewing-machine.....	L. Chevallier.....	161, 482	Mar. 30, 1875	1175	{ 377 } { 378 }	7	540
Sewing-machine.....	L. J. Crecelius.....	166, 071	July 27, 1875	929	287	8	172
Sewing-machine.....	C. S. Cushman.....	164, 529	June 15, 1875	658	213	7	1038
Sewing-machine.....	C. S. Cushman.....	165, 798	July 20, 1875	654	201	8	123
Sewing-machine.....	C. S. Cushman.....	167, 747	Sept. 14, 1875	334	107	8	461
Sewing-machine.....	C. S. Cushman.....	169, 965	Nov. 16, 1875	645	202	8	834
Sewing-machine.....	G. S. and A. L. Darling.....	163, 639	May 25, 1875	886	{ 279 } { 280 }	7	894
Sewing-machine.....	A. S. Dinsmore.....	160, 512	Mar. 9, 1875	244	84	7	392
Sewing-machine.....	G. L. Du Laney.....	169, 682	Nov. 9, 1875	358	113	8	790
Sewing-machine.....	O. Farrar.....	161, 399	Mar. 30, 1875	1100	356	7	531
Sewing-machine.....	W. L. Fish.....	167, 515	Sept. 7, 1875	120	37	8	423
Sewing-machine.....	J. L. Follett.....	162, 372	Apr. 20, 1875	727	{ 237 } { 238 }	7	683
Sewing-machine.....	S. W. Francis.....	171, 007	Dec. 14, 1875	336	{ 111 } { 112 }	8	1002
Sewing-machine.....	J. E. A. Gibbs.....	171, 557	Dec. 28, 1875	888	291	8	1093
Sewing-machine.....	J. E. A. Gibbs.....	171, 558	Dec. 28, 1875	889	291	8	1093
Sewing-machine.....	J. E. A. Gibbs.....	171, 559	Dec. 28, 1875	891	291	8	1093
Sewing-machine.....	J. Glives and N. W. Stiles.....	168, 894	Oct. 19, 1875	553	181	8	650
Sewing-machine.....	G. Hancock.....	168, 989	Oct. 19, 1875	643	212	8	172
Sewing-machine.....	T. J. Harper.....	166, 869	Aug. 17, 1875	662	206	8	310
Sewing-machine.....	I. P. Hicks.....	164, 299	June 8, 1875	436	144	7	1000
Sewing-machine.....	E. S. Hill.....	159, 673	Feb. 9, 1875	410	136	7	249
Sewing-machine.....	W. Hiron and J. D. Moore.....	159, 575	Feb. 9, 1875	324	106	7	237
Sewing-machine.....	G. W. Hoffman.....	162, 288	Apr. 20, 1875	644	{ 210 } { 211 }	7	674
Sewing-machine.....	E. Kappmeyer.....	159, 183	Jan. 26, 1875	813	{ 266 } { 267 }	7	158

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Sewing-machine.....	J. Keith.....	170,741	Dec. 7, 1875	79	25	8	761
Sewing-machine.....	J. Laing.....	162,665	Apr. 27, 1875	1013	{ 324 325 }	7	108
Sewing-machine.....	J. W. and R. H. Lufkin.....	170,284	Nov. 23, 1875	958	{ 300 301 }	8	883
Sewing-machine.....	L. Lyon.....	168,757	Oct. 11, 1875	423	138	8	632
Sewing-machine.....	J. B. McCune.....	158,596	Jan. 12, 1875	234	79	7	57
Sewing-machine.....	J. O'Neil.....	159,958	Feb. 16, 1875	689	220	7	291
Sewing-machine.....	C. H. Palmer.....	161,895	Apr. 13, 1875	279	94	7	620
Sewing-machine.....	A. Ploss.....	171,485	Dec. 28, 1875	822	{ 269 270 }	8	1083
Sewing-machine.....	A. E. Schmidt.....	162,697	Apr. 27, 1875	1050	335	7	732
Sewing-machine.....	W. C. Sharp.....	170,309	Nov. 23, 1875	981	307	8	887
Sewing-machine.....	C. F. Toll.....	171,193	Dec. 14, 1875	511	168	8	1026
Sewing-machine.....	T. A. Weber.....	166,236	Aug. 3, 1875	46	15	8	205
Sewing-machine.....	H. B. Wieland.....	161,310	Mar. 23, 1875	995	326	7	509
Sewing-machine.....	R. Whitehill.....	166,172	July 27, 1875	1033	318	8	187
Sewing-machine.....	D. Williamson.....	159,006	Jan. 19, 1875	631	209	7	125
Sewing-machine.....	W. Wormald and E. Dobson.....	169,881	Nov. 9, 1875	564	176	8	815
Sewing-machine attachment.....	F. Henry.....	163,491	May 18, 1875	731	233	7	866
Sewing-machine attachment.....	D. M. Mellon.....	161,536	Mar. 30, 1875	1231	396	7	548
Sewing-machine attachment.....	J. J. Thompson.....	161,076	Mar. 23, 1875	771	254	7	481
Sewing-machine, Bag.....	H. P. Garland.....	169,163	Oct. 26, 1875	829	269	8	705
Sewing-machine, Bag, &c.....	H. P. Garland and A. J. Gove.....	159,317	Feb. 2, 1875	75	25	7	194
Sewing-machine balance-wheels, Compensation-journal for.....	D. Smitjer.....	170,122	Nov. 16, 1875	789	250	8	853
Sewing-machine binder.....	G. Wissler.....	164,895	June 22, 1875	1003	324	7	1092
Sewing-machine binder attachment.....	G. Wissler.....	164,896	June 22, 1875	1004	324	7	1092
Sewing-machine binding attachment.....	H. C. Jones.....	162,562	Apr. 27, 1875	923	296	7	716
Sewing-machine bobbin.....	G. W. H. Curtis.....	166,348	Aug. 3, 1875	148	46	8	220
Sewing-machine bobbin winder.....	W. Miller.....	167,111	Aug. 24, 1875	909	284	8	353
Sewing-machine-bobbin winder.....	F. Peck.....	162,853	May 4, 1875	107	34	7	761
Sewing-machine-bobbin winder.....	H. H. Rhodes and C. C. Redmond.....	162,193	Apr. 20, 1875	558	183	7	663
Sewing-machine bobbins, Machine for filling.....	G. Gowing.....	168,634	Oct. 11, 1875	316	103	8	617
Sewing-machine, Boot and shoe.....	C. Goodyear, jr., and B. H. Hadley.....	170,547	Nov. 30, 1875	1216	382	8	927
Sewing machine, Boot and shoe.....	J. Keats, A. Greenwood, and A. Keats.....	171,622	Dec. 28, 1875	963	{ 312 313 }	8	1103
Sewing machine, Broom.....	H. Behren.....	171,342	Dec. 21, 1875	672	222	8	1055
Sewing-machine button-hole attachment.....	G. T. Jones.....	169,106	Oct. 26, 1875	778	253	8	697
Sewing-machine button-hole attachment.....	W. Randel.....	166,810	Aug. 17, 1875	607	188	8	302
Sewing-machine button-hole-cutting attachment.....	I. S. Craig.....	158,574	Jan. 12, 1875	211	72	7	54
Sewing-machine button-holing attachment.....	S. J. Baird.....	159,740	Feb. 16, 1875	486	164	7	265
Sewing-machine cording attachment.....	H. C. Jones.....	160,827	Mar. 16, 1875	544	178	7	441
Sewing-machine cover.....	G. Rehfuß.....	164,043	June 1, 1875	177	63	7	955
Sewing-machine cover.....	R. W. Whitney.....	162,127	Apr. 13, 1875	482	159	7	646
Sewing-machine cutting attachment.....	W. A. Springer.....	158,813	Jan. 19, 1875	447	{ 148 149 }	7	102
Sewing-machine dress-protector.....	E. T. Shaw.....	168,848	Oct. 19, 1875	515	169	8	653
Sewing-machine-driving mechanism.....	R. H. St. John.....	171,445	Dec. 21, 1875	766	252	8	1068
Sewing-machine embroidering attachment.....	C. H. Palmer.....	161,632	Apr. 6, 1875	38	14	7	574
Sewing-machine extension-table.....	R. H. St. John.....	169,310	Oct. 26, 1875	963	312	8	723
Sewing-machine fan attachment.....	I. A. Abbott.....	164,120	June 8, 1875	270	92	7	978
Sewing-machine feed-wheel.....	I. Manning.....	161,250	Mar. 23, 1875	940	306	7	502
Sewing-machine feeding device.....	I. M. Rose.....	166,302	Aug. 3, 1875	106	33	8	214
Sewing-machine fly-wheels, Journal for.....	G. Rehfuß.....	161,823	Apr. 6, 1875	207	69	7	598
Sewing-machine for stitching button-holes, &c.....	J. McCloskey.....	161,534	Mar. 30, 1875	1228	{ 395 396 }	7	547
Sewing-machine for stitching straw.....	J. P. Smith and S. W. Ricker.....	164,047	June 1, 1875	180	64, 65	7	955
Sewing-machine guide.....	W. A. Springer.....	169,860	Nov. 9, 1875	543	169	8	812
Sewing-machine guide.....	J. H. Trowbridge.....	166,161	July 27, 1875	1022	314	8	186
Sewing-machine guide for banding hats.....	D. Wheeler.....	164,241	June 8, 1875	377	128	7	993
Sewing-machine hemmer.....	A. F. Colby.....	159,391	Feb. 2, 1875	133	46	7	203
Sewing-machine hemmer.....	J. W. Robards.....	162,102	Apr. 13, 1875	454	151	7	642
Sewing-machine hemmer attachment.....	W. L. Kotzum.....	168,753	Oct. 11, 1875	420	137	8	632
Sewing-machine, Hosiery.....	W. Pearson.....	166,805	Aug. 17, 1875	604	187	8	302
Sewing-machine lamp-bracket.....	F. M. Willson and W. Vassie.....	167,864	Sept. 21, 1875	463	146	8	487
Sewing-machine lock.....	J. B. Logan.....	170,575	Nov. 30, 1875	1239	391	8	931
Sewing-machine looping attachment.....	S. Byrom and F. Clewley.....	166,340	Aug. 3, 1875	141	44	8	219
Sewing-machine motor.....	B. C. Chambers.....	160,876	Mar. 16, 1875	587	191	7	447
Sewing-machine motor.....	G. R. Everson.....	164,439	June 15, 1875	583	190	7	1029
Sewing-machine motor, Hydraulic.....	W. J. Lane.....	165,339	July 6, 1875	178	54	8	33
Sewing-machine needle.....	G. H. Bleloch.....	165,204	July 6, 1875	61	18	8	17
Sewing-machine needle.....	H. M. Jenkins.....	171,621	Dec. 28, 1875	963	312	8	1103
Sewing-machine needle.....	G. W. Lascell.....	166,993	Aug. 24, 1875	800	248	8	338
Sewing-machine needles, Machine for grooving.....	S. C. Kingman.....	158,947	Jan. 19, 1875	571	190	7	118
Sewing-machine-operating mechanism.....	B. C. Young.....	158,821	Jan. 19, 1875	453	151	7	103
Sewing-machine, Overstitch.....	W. A. Polmateer.....	170,390	Nov. 23, 1875	1055	332	8	897
Sewing-machine plaiter and tucker attachment.....	J. J. Fessenden.....	170,541	Nov. 30, 1875	1209	380	8	926
Sewing-machine presser-feet, Guide attachment for.....	G. Vincent.....	161,459	Mar. 30, 1875	1152	372	7	538
Sewing-machine quilting attachments, Holder for.....	N. Barnum.....	166,448	Aug. 10, 1875	273	81	8	245
Sewing-machine ruffler.....	J. Bolton.....	171,263	Dec. 21, 1875	606	198	8	1046
Sewing-machine ruffler.....	G. W. Darby.....	158,834	Jan. 19, 1875	465	156	7	104
Sewing-machine ruffler.....	G. W. Darby.....	159,020	Jan. 26, 1875	670	218	7	137
Sewing-machine ruffling and gathering attachment.....	S. M. Griest.....	159,261	Feb. 2, 1875	19	6	7	187
Sewing-machine ruffling attachment.....	W. H. Convers.....	168,141	Sept. 28, 1875	739	233	8	534
Sewing-machine ruffling attachment.....	C. H. Palmer.....	163,239	May 11, 1875	483	157	7	817
Sewing-machine ruffling attachment.....	J. D. Sourwine.....	163,699	May 25, 1875	932	296	7	900
Sewing-machine, Sack, &c.....	H. P. Garland.....	159,812	Feb. 16, 1875	556	185	7	274
Sewing-machine, Shoe.....	T. L. Miller.....	161,628	Apr. 6, 1875	34	13	7	574
Sewing machine, Shoe.....	E. P. Richardson.....	165,506	July 13, 1875	372	{ 110 111 }	8	67
Sewing-machine, Short-thread.....	J. S. Hall.....	168,637	Oct. 11, 1875	320	104	8	617
Sewing-machine shuttle.....	J. Beaver and J. M. Tallman.....	164,417	June 15, 1875	564	183	7	1026
Sewing-machine shuttle.....	C. E. Billings.....	165,405	July 13, 1875	276	82	8	53

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Sewing-machine shuttle	J. G. Nichols	161,265	Mar. 23, 1875	956	311	7	504
Sewing-machine shuttle	A. Peeler	171,163	Dec. 14, 1875	424	160	8	1022
Sewing-machine shuttle	J. Stann	164,109	June 8, 1875	261	89	7	977
Sewing-machine shuttle	J. Stann	164,110	June 8, 1875	262	90	7	977
Sewing-machine shuttle	H. L. Walker	168,067	Sept. 21, 1875	651	206	8	514
Sewing-machine table	H. R. Tracy	170,416	Nov. 23, 1875	1078	340	8	900
Sewing-machine table	F. R. Wolfinger	163,347	May 18, 1875	605	193	7	849
Sewing-machine-table-leaf support	R. W. Whitney	159,235	Jan. 26, 1875	862	281	7	165
Sewing-machine tables, Tilting platform for	M. Grebner	161,116	Mar. 23, 1875	815	267	7	486
Sewing-machine take-up	J. T. Jones	164,179	June 8, 1875	323	110	7	985
Sewing-machine take-up and thread-controller	M. M. Barnes	162,737	May 4, 1875	2	1	7	747
Sewing-machine thread-guard	L. Roosevelt	171,428	Dec. 21, 1875	752	247	8	1066
Sewing-machine thread-tension device	J. Reece	164,035	June 1, 1875	169	60	7	954
Sewing-machine treadle	W. B. Higgins	168,565	Oct. 11, 1875	250	82	8	607
Sewing-machine treadle, Adjustable	J. A. Curtiss and S. G. Burleigh	166,969	Aug. 24, 1875	774	239	8	334
Sewing-machine tuck-folding attachment	G. L. Du Laney	169,629	Nov. 9, 1875	305	98	8	783
Sewing-machine tuck-marker	J. Y. and A. K. Detwiler	158,576	Jan. 12, 1875	213	73	7	54
Sewing-machine tuck-marking attachment	A. Johnston	170,375	Nov. 23, 1875	1038	326	8	895
Sewing-machine tucker	J. H. Cleveland	163,290	May 11, 1875	535	172	7	824
Sewing-machine underbraider	V. Lapham	169,910	Nov. 16, 1875	600	186	8	828
Sewing-machine, Wax-thread	F. D. Ballou	158,883	Jan. 19, 1875	508	170	7	110
Sewing-machine, Wax-thread	E. E. Bean	159,144	Jan. 26, 1875	776	255	7	153
Sewing-machine, Wax-thread	A. Leavitt	171,147	Dec. 14, 1875	469	153	8	1020
Sewing-machine, Wax-thread	J. M. Nichols	168,521	Oct. 5, 1875	183	59	8	590
Sewing-machines, Clamp for attaching hemmers, binders, &c., to.	J. Dunn	169,530	Nov. 2, 1875	185	63	8	760
Sewing-machines, Device for driving	F. Miller	168,660	Oct. 11, 1875	340	111	8	621
Sewing-machines, Device for transmitting power to	J. Bourdin	170,933	Dec. 14, 1875	264	88	8	993
Sewing, &c., machines, Gearing for driving	W. J. Lane	165,338	July 6, 1875	176	54	8	33
Sewing-machines, Power for running	J. K. Welter	162,441	Apr. 20, 1875	795	259	7	692
Sewing-machines, Presser-roller for	M. M. Barnes	158,565	Jan. 12, 1875	203	69	7	53
Sewing-machines, Shuttle carrier or driver for	J. Bolton	169,079	Oct. 26, 1875	748	244	8	693
Sewing-machines, Wax thread heater for	H. J. Garton	167,094	Aug. 24, 1875	896	279	8	351
Sewing soles on boots and shoes, Machine for	T. J. and M. C. Denne	166,509	Aug. 10, 1875	321	97	8	252
Shade-fixtute	G. T. Brooks and J. F. Morell	168,713	Oct. 11, 1875	383	125	8	626
Shade-holder	T. Moran	166,894	Aug. 17, 1875	680	211	8	312
Shade roller, Sheet-metal	A. H. Knapp	165,935	July 27, 1875	806	247	8	155
Shade, Venetian	C. Widemann	169,502	Nov. 2, 1875	160	53	8	757
Shaft attachment, Sleigh	D. Smith	162,861	May 4, 1875	115	37	7	762
Shaft, Counter	W. Frech	170,667	Dec. 7, 1875	13	4	8	952
Shaft-coupling	A. B. Cook	165,546	July 13, 1875	410	123	8	73
Shaft-coupling	D. L. Newcomb	167,354	Aug. 31, 1875	1144	360	8	393
Shaft-coupling	P. B. Weeks and M. Metcalf	163,558	May 18, 1875	797	252	7	874
Shaft coupling, Tumbling	O. D. Herrick	165,231	July 6, 1875	82	24, 25	8	20
Shaft coupling, Vehicle	J. D. Morey	171,159	Dec. 14, 1875	480	157	8	1021
Shaft-couplings, Machine for fixing	G. A. Chapman	170,524	Nov. 30, 1875	1192	376	8	924
Shaft for ore-washers	E. F. Kittoe and F. Brotherhood	161,687	Apr. 6, 1875	84	30	7	581
Shaft-hanger	D. Dierker	159,909	Feb. 16, 1875	646	214	7	286
Shaft hanger, Counter	J. J. Squire	162,867	May 4, 1875	120	39	7	762
Shaft, Mechanism for transmitting motion from a treadle to a revolving.	J. Seginalt, jr	168,350	Oct. 5, 1875	27	11	8	568
Shaft-support	J. Nellis	159,204	Jan. 26, 1875	832	273	7	161
Shaft-tip	S. H. Raymond	167,169	Aug. 31, 1875	1010	314	8	374
Shaft-tip for vehicles	J. B. Goldsmith	158,371	Jan. 5, 1875	18	6	7	11
Shaft-tug	A. F. Morse	168,275	Sept. 28, 1875	855	272	8	550
Shaft-tug, Harness	T. E. Webber	159,781	Feb. 16, 1875	527	76	7	270
Shafts and strap-couplings, Guard-strap for	J. Weatherhead	169,068	Oct. 19, 1875	719	737	8	681
Shafts, Fastening wheels and pulleys to	J. F. Thomas	164,609	June 15, 1875	726	237	7	1048
Shafting, Bearing for upright	J. H. Teahl	169,864	Nov. 9, 1875	547	170	8	813
Shafting, Driving-gear for	S. S. Hepworth	160,522	Mar. 9, 1875	253	86	7	393
Shafting, Safety-box for revolving	M. R. Jones	158,799	Jan. 19, 1875	433	145	7	100
Sharpening-machine	A. S. Weaver	166,830	Aug. 17, 1875	623	193 } 194 }	8	305
Shaving-cup	P. Schanble and L. Dohm	170,773	Dec. 7, 1875	110	34	8	965
Shawl-holder	F. Meinberg	166,473	Aug. 10, 1875	293	88	8	248
Shawl or carrying strap handle	B. Andrews	164,247	June 8, 1875	385	131	7	994
Shawl pin and clamp, Combined	G. and F. Hartje	161,413	Mar. 30, 1875	1113	350	7	532
Shawl-strap bar	R. Speer	159,616	Feb. 9, 1875	356	118	7	242
Shawl-strap handle	W. Bruen and D. Gridley	159,892	Feb. 16, 1875	631	209	7	283
Shawl-strap handle	H. Edwards	162,360	Apr. 20, 1875	715	233	7	6-2
Shawl-strap handle	L. Loeser	164,848	June 22, 1875	957	310	7	10-7
Shears:							
See Barber's shears.	Sheet and plate metal shears.						
Hog's nose shears.							
Pruning-shears.	Tailor's shears.						
Sheep-shears.							
Shears, button-hole cutter, &c., Combined	P. L. Carter and J. W. Rhoades	162,029	Apr. 13, 1875	389	131	7	634
Shears-gage	J. Lamb	170,570	Nov. 30, 1875	1235	389	8	930
Shears, Manufacture of	O. Norton	164,930	June 29, 1875	1058	340	7	1107
Shearing chair, Sheep	C. H. and J. H. McCall	161,622	Apr. 6, 1875	29	12	7	573
Shearing machine, Animal	W. C. Harlow	159,547	Feb. 9, 1875	306	99	7	234
Shearing machine, Metal	I. Hahn	168,090	Sept. 28, 1875	683	216	8	526
Shearing machine, Metal	F. A. Pratt	164,391	June 15, 1875	535	176	7	1022
Shearing machine, Metal	J. Walsh and J. Dutot	160,858	Mar. 16, 1875	571	186	7	444
Shearing machine, Sheet-metal	W. H. and W. J. Clark and A. O. Kittredge	166,588	Aug. 10, 1875	385	119 } 120 }	8	262
Shearing, Sheep-holder for	J. R. Virgo	159,868	Feb. 16, 1875	607	201	7	280
Sheave	P. Kavanagh	167,257	Aug. 31, 1875	1062	330	8	382
Shed, Portable	T. L. Wiswell	163,559	May 18, 1875	797	253	7	874
Sheep, Device to protect men while washing	C. H. and J. H. McCall	162,842	May 4, 1875	96	31	7	759
Sheep scratch-box	I. B. Dillon	159,161	Jan. 26, 1875	790	259	7	155
Sheep scratch-box	I. B. Dillon	169,681	Nov. 9, 1875	357	113	8	790
Sheep-shears	P. Harlow	166,772	Aug. 17, 1875	574	176	8	297
Sheep-shears	F. Riedling	158,526	Jan. 5, 1875	151	52	7	30

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Sheep-shears	J. L. Smith	159,362	Feb. 2, 1875	110	38	7	199
Sheet and plate metal shears	T. Berridge	170,658	Dec. 7, 1875	5	1	8	951
Sheet-iron blank	G. E. Taylor	168,063	Sept. 21, 1875	647	205	8	514
Sheet-metal box	H. Martyn	163,088	May 11, 1875	344	112	7	800
Sheet-metal box	W. C. McGill	160,834	Mar. 16, 1875	554	180	7	442
Sheet-metal can	J. Herget	167,172	Aug. 31, 1875	991	308	8	371
Sheet-metal can	J. A. Wilson	161,848	Apr. 6, 1875	228	76	7	601
Sheet-metal cans, Method of producing flanged lids and collars for	J. M. Patterson	161,634	Apr. 6, 1875	40	15	7	575
Sheet-metal-corrugating machine	J. L. Piper and J. A. Nichols	161,152	Mar. 23, 1875	847	256	7	490
Sheet-metal, Die for forming	H. Martyn	163,793	May 25, 1875	1012	321	7	910
Sheet-metal, Die for raising articles of	N. C. Stiles	161,572	Mar. 30, 1875	1267	407	7	553
Sheet-metal, Mallet for smoothing	A. O. Kittredge and W. H. and W. J. Clark	166,703	Aug. 17, 1875	509	156	8	288
Sheet-metal pipe, Device for connecting, holding, &c., sections of	M. Stephens	163,341	May 18, 1875	600	192	7	849
Sheet-metal-pipe joint	J. Moore	159,439	Feb. 2, 1875	179	61	7	209
Sheet-metal-pot spout	P. Lesson	162,395	Apr. 20, 1875	751	244	7	686
Sheet-metal rings, Making	S. R. Wilmot	164,892	June 22, 1875	1001	323	7	1092
Sheet-metal rollers, Mode of forming	A. H. Kaupp	165,934	July 27, 1875	805	247	8	155
Sheet-metal threaded collars, Mode of forming	A. Taplin	161,912	Apr. 13, 1875	295	99	7	622
Sheet-metal traps, Machine for making	W. A. Butler	170,051	Nov. 16, 1875	719	228	8	844
Sheet-metal trimming and beading machine	J. De Butt	158,920	Jan. 19, 1875	549	182 183	7	115
Sheet-metal tube	J. C. Milligan	168,100	Sept. 28, 1875	695	219	8	527
Sheet-metal ware, Making	J. Trageser	171,198	Dec. 14, 1875	523	172	8	1027
Sheet-metal washers, Device for cutting	D. Goodnow, jr	160,015	Feb. 23, 1875	763	252	7	309
Shelf, Folding store	M. P. Key	159,583	Feb. 9, 1875	331	109	7	238
Shelf, Kitchen	A. A. Carter	169,892	Nov. 16, 1875	586	182	8	826
Shelf-supporting bracket	M. D. Jones	171,226	Dec. 21, 1875	571	188	8	1041
Shelving, Store	H. T. Bestor	166,248	Aug. 3, 1875	57	18	8	207
Shell, Explosive	H. Tyler	159,982	Feb. 16, 1875	711	236	7	294
Shell-joint, Combination	O. C. Little	167,845	Sept. 21, 1875	442	141	8	484
Sheller: See Corn-sheller							
Shield, Arm-pit	E. C. Bragg	169,515	Nov. 2, 1875	174	57	8	758
Shingle	D. Altman	169,666	Nov. 9, 1875	345	109	8	788
Shingle-band-cutting machine	J. W. Britton and F. L. Chamberlin	159,493	Feb. 9, 1875	251	81	7	227
Shingle-cutting machine	G. H. Degrau	165,313	July 6, 1875	154	47	8	30
Shingle-dressing machine	S. M. King	158,946	Jan. 19, 1875	571	189	7	118
Shingle-edging machine	J. E. Austin	171,338	Dec. 21, 1875	669	221	8	1054
Shingle-machine	J. J. Kendall	166,784	Aug. 17, 1875	584	180	8	299
Shingle-machine	W. P. Valentine	168,541	Oct. 5, 1875	205	67	8	593
Shingle-planer	W. A. Kitts	171,230	Dec. 21, 1875	574	189	8	1042
Shingle-planing machine	P. D. Burgher	159,790	Feb. 16, 1875	535	179	7	271
Shingle-sawing machine	W. Huey	160,524	Mar. 9, 1875	255	87	7	394
Shingling-bracket	A. P. Fletcher	163,587	May 25, 1875	839	265	7	887
Shingling-bracket	A. Lovejoy	162,483	Apr. 27, 1875	856	275	7	708
Shingling-bracket	W. H. Seymour	167,699	Sept. 14, 1875	293	93	8	495
Shingling-bracket	T. Talbott, jr	168,355	Oct. 5, 1875	32	12	8	569
Shingling-gage	C. Schneider	165,880	July 20, 1875	738	225	8	134
Shingling-machine	O. T. Williams	162,988	May 4, 1875	238	76	7	778
Ship's chair	D. Parks	166,628	Aug. 10, 1875	422	131	8	267
Ship's furniture to prevent sea-sickness	J. Wertheim	164,240	June 8, 1875	377	128	7	993
Ship's log	B. F. Moore	169,024	Oct. 19, 1875	675	223	8	676
Ship's log	T. C. Robinson	169,660	Nov. 9, 1875	337	107	8	787
Ship's log	S. D. Trenchard	168,432	Oct. 5, 1875	98	34	8	579
Ships, Mechanism for trimming	J. McNabb	159,951	Jan. 16, 1875	683	226	7	291
Ship's yards, Truss for	S. S. Jordan and J. C. Stevens	168,159	Sept. 28, 1875	754	238	8	536
Shirt	C. M. and J. C. Ball	169,133	Oct. 26, 1875	803	260	8	701
Shirt	C. J. Coyle	159,249	Feb. 2, 1875	8	3	7	186
Shirt	J. C. Dunham	163,644	May 25, 1875	890	281	7	894
Shirt	G. R. Eager	160,312	Mar. 2, 1875	52	19	7	356
Shirt	H. G. Fisk	161,110	Mar. 23, 1875	809	265	7	485
Shirt	S. Gutmann	170,081	Nov. 16, 1875	753	238	8	848
Shirt	S. Gutmann	170,082	Nov. 16, 1875	754	238	8	848
Shirt	J. W. Hutchinson	166,777	Aug. 17, 1875	579	178	8	298
Shirt	F. A. Richardson	166,411	Aug. 3, 1875	214	65	8	229
Shirt	C. E. Sutphen	159,554	Feb. 9, 1875	310	101	7	234
Shirt	J. Twamley	160,245	Feb. 23, 1875	958	315	7	337
Shirt and drawers, Combined	H. H. H. Grosskope	171,124	Dec. 14, 1875	448	147	8	1017
Shirt-bosom	R. Cluett	161,205	Mar. 23, 1875	889	292	7	496
Shirt-bosom	J. C. Coombs	166,589	Aug. 10, 1875	387	120	8	262
Shirt-bosom	T. M. and E. Denham	158,474	Jan. 5, 1875	109	37	7	24
Shirt-bosom	S. S. Fleishman	163,984	June 1, 1875	120	40	7	947
Shirt-bosom	F. C. Goodwin	166,092	July 27, 1875	954	294	8	176
Shirt-bosom	F. L. Pickett	166,297	Aug. 3, 1875	103	32	8	214
Shirt-bosom	A. Sinzheimer	161,286	Mar. 23, 1875	974	318	7	506
Shirt-bosom	A. Small	158,867	Jan. 19, 1875	495	166	7	108
Shirt-bosom supporter	J. S. Edmunds	160,658	Mar. 9, 1875	371	125	7	411
Shirt-envelope	J. Gilbert	161,503	Mar. 30, 1875	1202	386	7	543
Shirt-front	H. Converse	171,352	Dec. 21, 1875	682	225	8	1056
Shirt-front	W. J. and M. A. Duke	170,244	Nov. 23, 1875	926	288	8	879
Shirts, Wire rack for exhibiting	W. D. Phelan	164,325	June 8, 1875	459	152	7	1003
Shoe	G. L. Davis	161,103	Mar. 23, 1875	802	263	7	484
Shoe	L. Heath	162,166	Apr. 20, 1875	536	176	7	660
Shoe	G. D. Hill	159,674	Feb. 9, 1875	411	136	7	249
Shoe and gaiter	G. Bryant	159,245	Feb. 2, 1875	5	2	7	185
Shoe and stocking, Combined rubber	J. M. Bibbins	170,332	Nov. 23, 1875	1003	315	8	890
Shoe, Club-foot	W. Antenrieth	167,867	Sept. 21, 1875	464	147	8	487
Shoe-dressing	J. I. Eastman	163,855	June 1, 1875	18	-----	7	933
Shoe, &c., dressing, Composition for	J. H. Brown and J. G. Whiteside	163,220	Sept. 28, 1875	805	-----	8	543
Shoe-edge-trimming machine	C. J. Addy and E. S. Abbott	167,816	Sept. 21, 1875	417	133	8	481
Shoe-exhibiting device	R. T. Leaverton	161,526	Mar. 30, 1875	1221	395	7	546

Alphabetical list of inventions—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr. & Co.	Vol.	Page.
Shoe-fastener.....	G. P. Reeves.....	166,031	July 27, 1875	893	276	8	163
Shoe-fastening.....	W. Edmister.....	171,274	Dec. 21, 1875	617	201	8	1047
Shoe-fastening.....	W. J. McKee.....	171,301	Dec. 21, 1875	639	201	8	1050
Shoe-fastening.....	T. Tucker.....	162,974	May 4, 1875	224	72	7	776
Shoe-horn.....	A. M. Cushing.....	159,159	Jan. 26, 1875	789	259	7	155
Shoe-knife.....	A. L. Butterworth.....	158,830	Jan. 19, 1875	462	155	7	154
Shoe-knife.....	H. S. Cushman.....	164,675	June 22, 1875	798	261	7	1066
Shoe-knife.....	W. J. Fitz Gerald.....	163,470	May 18, 1875	709	227	7	864
Shoe, Lady's.....	G. L. Davis.....	160,510	Mar. 9, 1875	242	83	7	392
Shoe-making, Feather-edge-skiving knife for.....	S. H. Reynolds and G. G. Newhall.....	158,439	Jan. 5, 1875	73	26	7	20
Shoe-nail.....	L. R. Blake.....	165,470	July 13, 1875	343	100	8	62
Shoe-nail.....	D. D. C. Pillsbury.....	171,043	Dec. 14, 1875	363	121	8	1006
Shoe-nail.....	H. F. Whidden.....	164,889	June 22, 1875	999	322	7	1092
Shoe-nail blank.....	L. R. Blake and G. McKay.....	159,015	June 26, 1875	665	217	7	137
Shoe-nail-making machine.....	L. Soule.....	159,852	Feb. 16, 1875	591	195 196	7	278
Shoe-nails, Metallic strip for.....	G. McKay.....	167,349	Aug. 31, 1875	1141	359	8	393
Shoe nailing and tacking machine.....	L. Goddu.....	163,476	May 18, 1875	719	229	7	865
Shoe-nailing machine.....	P. H. Barstow.....	158,566	Jan. 12, 1875	204	70	7	53
Shoe-nailing machine.....	L. Goddu.....	163,477	May 18, 1875	722	230	7	865
Shoe-nailing machine.....	S. Harris.....	170,085	Nov. 16, 1875	756	239	8	848
Shoe-shanks, Die for forming spring.....	E. Briner.....	159,559	Feb. 9, 1875	313	102	7	235
Shoe-shanks, Machine for making metal.....	J. Hyslop, jr.....	159,577	Feb. 9, 1875	326	107	7	237
Shoe-shave.....	T. Harrington.....	159,548	Feb. 9, 1875	306	99	7	234
Shoe-shave.....	D. Harrington.....	161,958	Apr. 13, 1875	334	112	7	627
Shoe-stretcher.....	C. and P. Miller.....	163,229	May 11, 1875	474	154	7	816
Shoe, Swimming.....	O. G. Ahlstrom.....	169,396	Nov. 2, 1875	72	21	8	741
Shoe-tip.....	C. T. Grilley.....	164,447	June 15, 1875	591	192	7	1029
Shoe-tip.....	A. Van Wagenen.....	166,660	Aug. 10, 1875	451	139	8	271
Shoe-tip.....	H. White.....	159,991	Feb. 16, 1875	721	240	7	296
Shoe tip or protector.....	C. T. Grilley.....	166,361	Aug. 3, 1875	158	49	8	222
Shoe tip or protector.....	C. T. Grilley.....	166,362	Aug. 3, 1875	159	49	8	222
Shoe tip or protector.....	C. T. Grilley.....	166,769	Aug. 17, 1875	572	176	8	297
Shoe-tips, Machine for making.....	J. A. Stockwell.....	170,128	Nov. 16, 1875	794	252	8	854
Shoe-tips, Machine for making.....	J. H. Hussey.....	159,181	Jan. 26, 1875	811	266	7	157
Shoe-tongue.....	W. J. Windram.....	171,203	Dec. 14, 1875	527	174	8	1027
Shoe-upper.....	J. L. Perry.....	158,601	Jan. 12, 1875	238	80	7	57
Shoes, Elastic goring for.....	H. A. Blanchard.....	167,732	Sept. 14, 1875	323	103	8	459
Shoes, Manufacture of.....	W. Froelich.....	160,583	Mar. 9, 1875	305	103	7	401
Shoemakers, Combined cutter-wheel and paneling device for.....	J. W. Carver.....	167,430	Sept. 7, 1875	47	14	8	412
Shoemaker's knife.....	G. R. J. Ruggles.....	164,104	June 8, 1875	258	88	7	977
Shoemaker's knife.....	A. C. Wetherbee.....	168,818	Oct. 11, 1875	477	155	8	640
Shot-charger.....	G. A. Capewell.....	162,349	Apr. 20, 1875	702	228	7	681
Shot-charger.....	P. Ziegel.....	162,734	Apr. 27, 1875	1093	346	7	737
Shot-charger for shot-pouches.....	J. S. Long.....	166,791	Aug. 17, 1875	590	182	8	300
Shoulder-brace and suspenders, Combined.....	H. S. Archer.....	171,207	Dec. 21, 1875	554	181	8	1039
Shovel:							
See Coal-shovel. Fire-shovel.							
Shovel.....	T. J. Blake.....	161,321	Mar. 30, 1875	1023	333	7	521
Shovel.....	P. B. Cunningham.....	160,170	Feb. 23, 1875	894	294	7	327
Shovel.....	I. Munroe.....	160,343	Mar. 2, 1875	78	27	7	360
Shovel.....	C. H. Sayre.....	162,312	Apr. 20, 1875	668	218	7	677
Shovel and ash-pan lifter, Combined.....	A. Johnson.....	161,044	Mar. 23, 1875	742	244	7	477
Shovel and fork lifting attachment.....	F. M. Gardner.....	161,678	Apr. 6, 1875	77	27	7	580
Shovel-blades, Die for cutting, molding, and punching.....	P. B. Cunningham.....	166,347	Aug. 3, 1875	147	45	8	220
Shovel-blanks, Casting.....	E. Binns and E. A. Barnes.....	162,145	Apr. 20, 1875	514	169	7	657
Shovel-laps, Manufacture of.....	J. C. Klein.....	171,142	Dec. 14, 1875	464	152	8	1019
Shovels, Manufacture of.....	T. J. Blake.....	162,146	Apr. 20, 1875	515	170	7	657
Show-cards, Ornamentation of.....	L. C. Goodale.....	162,912	May 4, 1875	160	52	7	768
Show-case.....	R. H. Hasenritter.....	167,335	Aug. 31, 1875	1128	354	8	391
Show-case.....	A. and C. Lange.....	158,504	Jan. 5, 1875	137	46	7	28
Show-case.....	W. B. Smith.....	165,034	June 29, 1875	1141	368	7	1118
Show-case corner.....	M. Anderson.....	158,823	Jan. 19, 1875	456	152	7	103
Shower-bath.....	A. Macqueen, jr.....	166,212	Aug. 3, 1875	26	9	8	202
Shutter and blind fastener.....	C. B. Haynes.....	160,672	Mar. 9, 1875	381	129	7	412
Shutter and blind fastening.....	C. H. Craig.....	161,329	Mar. 30, 1875	1030	335	7	522
Shutter-bolt.....	J. Mitchell.....	170,104	Nov. 16, 1875	774	245	8	851
Shutter-bower.....	J. B. Hand.....	160,671	Mar. 9, 1875	380	129	7	412
Shutter bower and fastener.....	G. F. S. and C. Zimmerman.....	163,621	May 25, 1875	872	274	7	892
Shutter bower and fastener, Combined.....	J. Fellows and J. Finnegan.....	168,563	Oct. 11, 1875	247	80, 81	8	607
Shutter-fastener.....	J. Arnold.....	171,336	Dec. 21, 1875	668	226	8	1054
Shutter-fastener.....	J. Christie.....	158,779	Jan. 19, 1875	414	139	7	97
Shutter-fastener.....	H. H. Ham, jr.....	162,546	Apr. 27, 1875	909	291	7	714
Shutter-fastener.....	A. D. Judd.....	162,563	Apr. 27, 1875	924	296	7	716
Shutter-fastener.....	C. Russell.....	161,556	Mar. 30, 1875	1246	401	7	550
Shutter-fastener.....	J. Shedd.....	166,819	Aug. 17, 1875	614	190	8	304
Shutter-fastener.....	S. C. Tuckerman.....	170,210	Nov. 22, 1875	894	279	8	874
Shutter-fastening.....	R. L. Pruyn.....	167,934	Sept. 21, 1875	515	164	8	495
Shutter-fastening.....	C. A. Smith.....	168,057	Sept. 21, 1875	631	202	8	512
Shutter, Fire-proof.....	S. Fales.....	162,811	May 4, 1875	70	22	7	756
Shutter, Fire-proof.....	G. E. Kissam.....	164,566	June 15, 1875	690	224	7	1043
Shutter, Fire-proof.....	J. D. Pierce and J. B. Smith.....	167,270	Aug. 31, 1875	1071	334	8	323
Shutter, Rolling.....	H. J. Defrenne.....	159,307	Feb. 2, 1875	56	21	7	192
Shutter, Window.....	S. Victor.....	170,789	Dec. 7, 1875	122	39	8	966
Shutter-worker.....	J. Bonsall.....	160,255	Mar. 2, 1875	3	1	7	349
Shutter-worker.....	T. J. Carroll.....	164,519	June 15, 1875	650	210	7	1037
Shutter-worker.....	H. A. House.....	170,171	Nov. 23, 1875	862	269	8	870
Shutter-worker.....	J. D. Hughson.....	167,252	Aug. 31, 1875	1058	329	8	381
Shutter-worker.....	W. M. Lamphere.....	164,463	June 15, 1875	605	196	7	1031
Shutter-worker, blind-slat adjuster, and sash-fastener, Combined.....	H. J. Dickerson.....	168,887	Oct. 19, 1875	546	179	8	658
Shuttle-box mechanism.....	G. Crompton.....	161,487	Mar. 30, 1875	1185	379 380	7	541
Shuttle-box mechanism.....	G. Crompton.....	161,488	Mar. 30, 1875	1187	381	7	541

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Shuttle, Weaver's	J. A. Crosby	161, 101	Mar. 23, 1875	800	262	7	484
Sidewalks, Device for distributing ashes on icy	W. W. Hughes	164, 502	June 15, 1875	686	223	7	1042
Siding-gage	C. Sargent	167, 791	Sept. 14, 1875	379	121	8	467
Siding-gage and bracket	W. S. Payn	170, 964	Dec. 14, 1875	298	99	8	997
Siding, Machine for cutting	W. W. Le Grande	164, 381	June 15, 1875	527	173	7	1021
Sieve	O. Bond	166, 680	Aug. 17, 1875	489	149	8	235
Sieve	J. Epeneter and C. B. Grahl	165, 083	June 29, 1875	1184	381	7	1124
Sieve	A. Root	170, 117	Nov. 16, 1875	783	249	8	852
Sieve, Flour	G. C. Eastman	164, 436	June 15, 1875	581	188	7	1028
Sifter, Ash	F. Anthes	160, 807	Mar. 16, 1875	533	173	7	439
Sifter, Ash	W. Baumann	167, 295	Aug. 31, 1875	1093	343	8	386
Sifter, Ash	A. C. Ferris	167, 655	Sept. 14, 1875	256	80	8	449
Sifter, Ash	J. H. Goodfellow	159, 666	Feb. 9, 1875	403	134	7	248
Sifter, Ash	J. H. Goodfellow	159, 668	Feb. 9, 1875	405	134	7	248
Sifter, Ash	M. B. Hull and A. Eppler	167, 101	Aug. 24, 1875	901	281	8	352
Sifter, Ash	W. Montgomery	162, 571	Apr. 27, 1875	929	298	7	717
Sifter, Ash	J. Sutton	162, 712	Apr. 27, 1875	1067	339	7	734
Sifter, Coal	J. S. Pearce	158, 808	Jan. 19, 1875	441	147	7	101
Sifter, Flour	W. T. Lintnes, M. E. Weller, and D. S. Kellogg	169, 454	Nov. 2, 1875	119	38	8	751
Sifter, Flour	A. W. Smith	158, 536	Jan. 5, 1875	161	55	7	31
Sifting coal-ashes, Implement for	J. Waldron	170, 317	Nov. 23, 1875	988	310	8	888
Sifting device, Ash	J. H. Goodfellow	159, 667	Feb. 9, 1875	404	134	7	248
Sight-protector	M. H. Mendenhall	162, 298	Apr. 20, 1875	655	213	7	675
Sight-protector	M. H. Mendenhall	171, 403	Dec. 21, 1875	731	240	8	1062
Sign	F. Billingham	162, 144	Apr. 20, 1875	514	169	7	657
Sign	H. J. Blowney	164, 514	June 15, 1875	646	209	7	1036
Sign	D. D. Young	168, 204	Sept. 28, 1875	793	252	8	541
Sign and banner, Wire	H. H. Upham, J. Garrett, and J. Tully	168, 687	Oct. 11, 1875	359	118	8	623
Sign and order-slate, Combined	J. S. Gold	167, 330	Aug. 31, 1875	1124	353	8	390
Sign, Illuminated	F. McLewee	159, 596	Feb. 9, 1875	340	113	7	240
Sign, Illuminating	C. H. Seawell	163, 697	May 25, 1875	930	296	7	899
Sign-plate	H. T. Dewey	169, 680	Nov. 9, 1875	356	113	8	789
Sign, Street	H. S. Finney	160, 891	Mar. 16, 1875	600	195	7	448
Sign, Street	G. B. King	159, 550	Feb. 9, 1875	308	100	7	234
Signs and banners, Frame for open-work	E. F. Southward	162, 203	Apr. 20, 1875	568	186	7	664
Signal:							
See Electric signal.	Railway-crossing signal.						
Fire-alarm signal.	Railway time-signal.						
Fog-signal.	Switch-signal.						
Railway-signal.	Telegraphic signal.						
Signal-operating device	F. Culham	164, 719	June 22, 1875	841	273	7	1072
Signaling and recording apparatus, Electric	W. J. Phillips	164, 031	June 1, 1875	164	58, 59	7	953
Signaling apparatus, Electric	T. A. Edison and C. Batchelor	169, 972	Nov. 16, 1875	651	203	8	834
Signaling device	H. Kimmersley	171, 517	Dec. 28, 1875	855	279	8	1088
Singeing-furnace	B. Rose	170, 018	Nov. 16, 1875	691	217	8	840
Single-tree hook and clip	M. S. Curtiss	162, 629	Apr. 27, 1875	976	314	7	723
Sink	W. Donovan	171, 002	Dec. 14, 1875	333	110	8	1002
Sink	L. Jones, jr.	169, 551	Nov. 2, 1875	211	70	8	763
Sink	L. Robinson	168, 052	Sept. 21, 1875	626	201	8	512
Sink attachment	J. Murdock	160, 540	Mar. 9, 1875	269	91	7	396
Size compound	T. Ende	159, 504	Feb. 9, 1875	261	...	7	228
Sizing composition	S. B. Dorlan	170, 352	Nov. 23, 1875	1019	...	8	892
Skate	J. C. Depter and E. V. Tanner	165, 216	July 6, 1875	71	20	8	18
Skate	R. H. Earle	160, 087	Feb. 23, 1875	825	271	7	317
Skate	O. Edwards	163, 307	May 18, 1875	568	182	7	845
Skate	O. Edwards	163, 308	May 18, 1875	569	182	7	845
Skate	O. Edwards	170, 943	Dec. 14, 1875	274	91	8	994
Skate	L. S. Ingraham	162, 174	Apr. 20, 1875	542	178	7	661
Skate	J. D. Kellogg, jr.	161, 883	Apr. 13, 1875	271	91	7	619
Skate	P. Rodier	164, 039	June 1, 1875	172	61	7	954
Skelp-forming roll	J. C. Getz	166, 359	Aug. 3, 1875	157	48	8	222
Sketching and phonographic case	T. J. Phillips	165, 686	July 20, 1875	552	168	8	108
Skid, Portable	G. E. Harrington	169, 990	Nov. 16, 1875	666	209	8	837
Skins, Currying calf	P. Ware, jr.	167, 142	Aug. 24, 1875	938	...	8	357
Skins, Method and apparatus for dyeing wool on sheep	A. Jack	160, 677	Mar. 9, 1875	385	130	7	413
Skins, Process of dressing	R. Hart	169, 102	Oct. 26, 1875	774	...	8	696
Skins, Process of fleshing, dressing, and finishing sheep	R. Hart	160, 902	Mar. 16, 1875	609	...	7	449
Skipping apparatus	J. A. Crandall	163, 625	Nov. 9, 1875	301	97	8	782
Skirt	J. McCowan	164, 317	June 8, 1875	453	149	7	1002
Skirt-adjuster	A. S. Gear	171, 474	Dec. 28, 1875	808	266	8	1082
Skirt-elevator	G. W. Denny	165, 315	July 6, 1875	156	47	8	37
Skirts, &c., Ornamental fabric for	A. Komp	170, 380	Nov. 23, 1875	1043	328	8	895
Skirts, &c., Ornamenting	I. Hauser	164, 297	June 8, 1875	434	144	7	1000
Skirts, Ornamenting	J. Schoenhof	163, 335	May 18, 1875	594	190	7	848
Skirt-protector	T. D. Day	161, 012	Mar. 23, 1875	713	236	7	473
Skirt-supporter	M. P. Bray	163, 730	May 25, 1875	961	304	7	903
Skirt-supporter	C. P. Clark	164, 905	June 29, 1875	1033	333	7	1104
Skiving and welt-splitting machine	J. W. Fifield	165, 412	July 13, 1875	281	83	8	54
Skylight	A. Querner and T. Burke	166, 890	Aug. 17, 1875	634	212	8	313
Skylight-bar	J. Harvey	160, 518	Mar. 9, 1875	250	85	7	393
Skylight-bar	A. J. Post	159, 353	Feb. 2, 1875	102	35	7	198
Slag, Disintegrating furnace	C. Diebold	170, 717	Dec. 7, 1875	59	17	8	958
Slag, Machine for granulating	S. Robbins	164, 397	June 15, 1875	543	178	7	1023
Slate	C. C. Shepherd	165, 126	June 29, 1875	1223	393	7	1129
Slate-cleaning block	A. H. Bryant	170, 340	Nov. 23, 1875	1009	316	8	891
Slate-cutting machine	T. W. Parry	163, 944	June 1, 1875	89	30	7	943
Slate-frame	J. H. Barbarick	161, 732	Apr. 6, 1875	124	43	7	586
Slate-frame	J. Haggerty	166, 523	Aug. 10, 1875	332	101	8	254
Slate-frame	J. W. and C. M. Hyatt	159, 681	Feb. 9, 1875	417	139	7	250
Slate-frame	W. A. Miller	164, 019	June 1, 1875	152	54	7	951
Slate frame	N. A. Porter	159, 839	Feb. 16, 1875	579	192	7	277
Slate-frame	C. J. Shields	158, 444	Jan. 5, 1875	80	28	7	20

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Slate-frames, Machine for rounding the corners of	A. Stroh	162,505	Apr. 27, 1875	877	280	7	711
Slate-polisher	J. H. Coffin and P. S. Klotz	167,875	Sept. 21, 1875	472	149	8	488
Slate, School	C. D. Meigs, jr.	165,747	July 20, 1875	603	186	8	116
Slate, Transparent	C. C. Shepherd	160,287	Mar. 2, 1875	28	11	7	353
Slate-washer	L. L. Lyman and C. A. Boell	159,274	Feb. 2, 1875	29	10	7	188
Sled	S. E. Foster	158,481	Jan. 5, 1875	115	39	7	25
Sled, Bob	F. Dillon	171,271	Dec. 21, 1875	614	201	8	1047
Sled, Bob	J. J. Sandgren	164,770	June 22, 1875	881	287	7	1047
Sled, Bob	J. Wampach	159,623	Feb. 9, 1875	360	119	7	242
Sled-brake	J. Yerck	158,879	Jan. 19, 1875	504	169	7	109
Sled, Child's	H. N. Tucker	170,919	Dec. 7, 1875	232	79	8	982
Sled, Hand	J. B. Monroe	160,837	Mar. 16, 1875	556	180	7	442
Sled, Log	H. S. Bartlett	163,042	May 11, 1875	204	98	7	794
Sled-propeller	D. W. De Forest	170,715	Dec. 7, 1875	57	17	8	958
Sled-propeller	C. Schwager	171,179	Dec. 14, 1875	497	164	8	1024
Sled-propeller	C. Schwager and J. Wissen	164,221	June 8, 1875	356	122	7	990
Sled-runner	R. B. Bird	162,266	Apr. 20, 1875	628	204	7	672
Sleeve-adjuster	A. Perego	170,641	Nov. 30, 1875	1306	412	8	939
Sleeve-protector	O. H. Dunn	165,921	July 27, 1875	789	242	8	154
Sleigh	A. A. Abbott	166,055	July 27, 1875	915	283	8	170
Sleigh	T. Brown	167,739	Sept. 14, 1875	327	105	8	460
Sleigh	G. McConnell	168,039	Sept. 21, 1875	610	196	8	509
Sleigh	T. F. Moore	159,036	Jan. 26, 1875	683	225	7	140
Sleigh	R. B. Parks	168,180	Sept. 28, 1875	772	244	8	538
Sleigh	J. M. Story	167,627	Sept. 14, 1875	232	72	8	445
Sleigh	B. F. Sweet	169,056	Oct. 19, 1875	708	233	8	680
Sleigh-bell	G. W. Goff	166,521	Aug. 10, 1875	331	100	8	254
Sleigh-bell	R. and H. Marbach	166,396	Aug. 3, 1875	198	59	8	226
Sleigh-knee	M. Glassbrook	162,469	Apr. 27, 1875	843	271	7	706
Sleigh-knees, Manufacture of	W. H. Lloyd	171,295	Dec. 21, 1875	634	207	8	1049
Sleigh-runner	H. Smith	165,624	July 13, 1875	484	147	8	84
Sleigh-runner frames, Device for bending	J. W. and E. W. Karn	165,103	June 29, 1875	1205	387	7	1127
Sleighs, Lance for propelling	A. Corbett	165,547	July 13, 1875	411	123	8	73
Slicing-utensil, Kitchen	A. Iske	162,823	May 4, 1875	79	26	7	757
Slide-rests, Locking device for	M. J. Shiner	158,747	Jan. 12, 1875	361	123	7	75
Sliding-gate	J. P. McMurray	163,675	May 25, 1875	912	290	7	897
Sluice-gate	T. Parker	168,524	Oct. 5, 1875	186	60, 61	8	590
Smelting-furnace	H. C. Creal	165,477	July 13, 1875	349	102	8	63
Smelting-furnace for lead-ores	J. A. Hamilton	159,669	Feb. 9, 1875	406	135	7	248
Smelting furnace, Lead	J. V. Woodhouse	168,440	Oct. 5, 1875	104	36	8	580
Smelting furnace, Ore	W. E. C. Eustis	166,977	Aug. 24, 1875	781	241	8	335
Smoke and cinder conductor	D. L. Brancher and J. L. Ring	160,301	Mar. 2, 1875	38	15	7	354
Smoke-consuming furnace	D. Argerbright and W. Allensworth	159,141	Jan. 26, 1875	772	254	7	152
Smoke-consuming furnace	D. Argerbright and W. Allensworth	160,378	Mar. 2, 1875	107	39	7	364
Smoke-consuming furnace	J. C. Baum	163,295	May 18, 1875	554	{ 177 } { 178 }	7	843
Smoke-consuming furnace	W. L. Powlesson	159,964	Feb. 16, 1875	695	231	7	292
Smoke-house	C. D. Hart	169,693	Nov. 9, 1875	376	118	8	792
Smoke-stack	J. L. Mason	164,652	June 22, 1875	778	255	7	1063
Smoke-stack heater-pipe	T. B. Field	161,108	Mar. 23, 1875	807	265	7	485
Smoking-case	H. W. Dann	165,215	July 6, 1875	71	20	8	18
Smoking-pipe	C. J. Jonasson	165,002	June 29, 1875	1114	359	7	1114
Smoking-pipe cover	F. L. Suter	165,274	July 6, 1875	118	36	8	25
Smoking-tube	J. C. Cook	163,976	June 1, 1875	113	38	7	946
Smoothing and fluting iron	W. D. Mayfield	164,012	June 1, 1875	145	51, 52	7	951
Smut-machine	D. Pease	169,289	Oct. 26, 1875	940	{ 305 } { 306 }	8	720
Smut-mill	J. Richmond	158,524	Jan. 5, 1875	152	51	7	30
Smut-mill	W. Richmond, T. Ryand, and J. McGill	167,788	Sept. 14, 1875	377	{ 120 } { 121 }	8	467
Snaffle-bit, Rubber-covered	F. J. Nodine	160,344	Mar. 2, 1875	78	27	7	360
Snap-hook	C. B. Bristol	169,234	Oct. 26, 1875	889	289	8	713
Snap-hook	C. Dudley	171,361	Dec. 21, 1875	690	227	8	1057
Snap-hook	J. Eberle	163,056	May 11, 1875	316	101	7	795
Snap-hook	J. T. Foster	159,313	Feb. 2, 1875	60	22, 23	7	193
Snap-hook	J. T. Foster	159,403	Feb. 2, 1875	146	49, 50	7	205
Snap-hook	H. C. Goodrich	167,399	Sept. 7, 1875	19	5	8	409
Snap-hook	C. E. Jackson	165,333	July 6, 1875	173	53	8	32
Snap-hook	E. Kempshall	165,933	July 27, 1875	804	247	8	155
Snap-hook	G. Reynolds	165,122	June 29, 1875	1220	342	7	1129
Snap-hook	J. B. Tainter	171,590	Dec. 28, 1875	920	301	8	1097
Snap-hook	A. J. Vaughan	161,843	Apr. 6, 1875	225	75	7	601
Snap-hooks, Machine for forming	J. T. Foster	159,314	Feb. 2, 1875	61	23, 24	7	193
Snap-hooks, Manufacture of	A. C. Conde	160,879	Mar. 16, 1875	590	192	7	447
Snatch-block	A. Hunt	168,498	Oct. 5, 1875	160	52	8	587
Snow-melting machine	J. Cody	171,602	Dec. 28, 1875	931	305	8	1099
Soap	J. T. Hoge and R. D. Schultz	166,609	Aug. 10, 1875	407		8	265
Soap	S. Strunz	165,627	July 13, 1875	486		8	84
Soap-alkali	I. N. Stern	160,726	Mar. 9, 1875	433		7	419
Soap, Apparatus for variegating	G. C. Wenzel	163,828	May 25, 1875	1041	330	7	915
Soap, Bleaching	P. Burns	168,223	Sept. 28, 1875	806		8	543
Soap-boiling apparatus	M. J. Palmer	169,472	Nov. 2, 1875	136	44	8	753
Soap composition	W. F. Daroboy	160,967	Nov. 16, 1875	646		8	834
Soap compound	B. F. Burke	159,640	Feb. 9, 1875	373		7	244
Soap compound	G. L. S. Jenifer	167,669	Sept. 14, 1875	268		8	451
Soap-cutting machine	C. F. Sieber	164,400	June 15, 1875	545	179	7	1023
Soap-cutting machines, Attachment to	J. C. Ralston	167,936	Sept. 21, 1875	516	165	8	496
Soap-holder	J. P. Bryan	164,801	June 22, 1875	915	297	7	1081
Soap-holder	E. Cundey	162,905	May 4, 1875	155	50	7	767
Soap-holder	W. J. Johnson	167,769	Sept. 14, 1875	362	115	8	464
Soap, Impalpable	J. P. Bryan	163,571	May 25, 1875	823		7	885
Soap, Manufacture of	C. Lehmann	158,720	Jan. 12, 1875	342		7	72
Soap-press	A. Neupert	163,232	May 11, 1875	477	154	7	817

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Soap-slabbing machine.....	J. C. Ralston.....	166, 891	Aug. 17, 1875	685	212	8	313
Soap, Transparent.....	S. Strunz.....	164, 606	June 15, 1875	723	236	7	1048
Soap, Transparent advertising.....	S. Strunz.....	165, 628	July 13, 1875	487	148	8	84
Sock, mitten, &c.....	J. Kent.....	163, 209	May 11, 1875	456	147	7	814
Socket-coupling.....	A. S. Wadleigh.....	169, 208	Oct. 26, 1875	861	281	8	710
Sod-cutter.....	R. Hinkson and N. P. Hinkley.....	160, 321	Mar. 2, 1875	60	21	7	357
Sod-cutter.....	J. McArdle.....	161, 048	Mar. 23, 1875	745	245	7	477
Soda-fountain.....	J. Matthews.....	159, 431	Feb. 2, 1875	171	58	7	208
Soda-fountain.....	F. W. Wiesebrock.....	161, 845	Apr. 6, 1875	226	76	7	601
Soda-fountain, Double-faucet.....	F. T. Paine.....	168, 280	Sept. 28, 1875	858	273	8	550
Soda, Manufacture of caustic.....	H. Gaskell, jr.....	169, 800	Nov. 9, 1875	486	.....	8	806
Soda-water apparatus.....	W. Longbridge.....	165, 343	July 6, 1875	183	55	8	34
Soda-water draft apparatus.....	W. Gee.....	159, 915	Feb. 16, 1875	650	215	7	286
Soda-water draft-tube.....	J. C. Wharton.....	168, 201	Sept. 28, 1875	791	251	8	541
Soda-water fountain.....	C. Greiner.....	170, 551	Nov. 30, 1875	1220	383	8	928
Soda-water fountain.....	J. Matthews.....	159, 432	Feb. 2, 1875	172	59	7	208
Soda-water fountain.....	F. W. Wiesebrock.....	166, 440	Aug. 3, 1875	242	74	8	233
Soda-water fountains, Making.....	A. D. Puffer.....	167, 688	Sept. 14, 1875	283	90	8	453
Soda-water generator.....	J. Anderson.....	162, 212	Apr. 20, 1875	576	189	7	665
Sofa.....	N. M. Mackenzie.....	170, 678	Dec. 7, 1875	23	7	8	954
Sofa.....	T. Ramsden.....	167, 565	Sept. 7, 1875	163	51	8	429
Sofa and table, Convertible.....	C. C. Harris.....	170, 260	Nov. 23, 1875	941	{ 293 } 294	8	881
Solder-melting apparatus.....	J. P. Hayes.....	167, 171	Aug. 31, 1875	991	308	8	371
Soldering apparatus.....	L. McMurray.....	171, 625	Dec. 28, 1875	968	313	8	1103
Soldering apparatus.....	G. H. Perkins.....	165, 362	July 6, 1875	199	60	8	36
Soldering-clamp.....	M. Tandy.....	164, 232	June 8, 1875	371	126	7	992
Soldering-iron.....	J. Aguilar.....	167, 969	Sept. 21, 1875	541	174	8	499
Soldering-iron.....	A. Anderson and L. W. Goldy.....	170, 800	Dec. 7, 1875	133	44	8	968
Soldering-iron heater.....	J. S. Hull.....	162, 657	Apr. 27, 1875	1004	322	7	727
Soldering-iron heater.....	C. J. Rogers.....	164, 216	June 8, 1875	352	121	7	990
Soldering-irons, Furnace for heating.....	P. P. Beals.....	165, 200	July 6, 1875	57	17	8	16
Soldering-machine.....	W. L. Baillie.....	162, 880	May 4, 1875	130	43	7	764
Soldering-machine.....	W. D. Brooks.....	161, 200	Mar. 23, 1875	884	290	7	495
Soldering-machine.....	G. W. Fisher.....	159, 542	Feb. 9, 1875	302	98	7	233
Soldering-machine.....	L. P. Merriam.....	167, 554	Sept. 7, 1875	153	48	8	428
Soldering-machine.....	R. H. Smith.....	161, 289	Mar. 23, 1875	977	319	7	507
Soldering process.....	M. A. Richardson.....	169, 192	Oct. 26, 1875	849	277	8	708
Soldering sheet-metal lids, Machine for.....	G. H. Chinnock.....	159, 903	Feb. 16, 1875	641	212	7	285
Soldering-tool.....	W. S. Macqueen.....	169, 820	Nov. 9, 1875	505	158	8	807
Soldering-tubes, Die for smoothing and shaping.....	P. Brown.....	166, 337	Aug. 3, 1875	139	43	8	219
Sole and heel shave for boots and shoes.....	G. P. Foster.....	159, 312	Feb. 2, 1875	59	22	7	193
Sole, Boot and shoe.....	H. E. Van Benschoten.....	160, 042	Feb. 23, 1875	786	259	7	312
Sole, Boot and shoe in.....	C. F. Hill.....	167, 762	Sept. 14, 1875	356	112	8	464
Sole-buffing roller.....	J. B. Johnson.....	167, 904	Sept. 21, 1875	494	156	8	492
Sole-buffing roller.....	J. B. Johnson.....	167, 905	Sept. 21, 1875	495	157	8	492
Sole-channeling machine.....	L. Goddu.....	167, 523	Sept. 7, 1875	127	39	8	424
Sole-edge machine.....	C. D. Bigelow.....	165, 060	June 29, 1875	1163	375	7	1121
Sole edge trimmer, Shoe.....	J. W. Leferts.....	164, 569	June 15, 1875	693	225	7	1043
Sole edge trimming machine, Boot and shoe.....	R. F. Burns.....	158, 569	Jan. 12, 1875	207	70, 71	7	53
Sole-fastening.....	L. Goddu.....	162, 643	Apr. 27, 1875	990	318	7	725
Sole-fastening.....	B. F. Sturtevant.....	159, 777	Feb. 16, 1875	523	174	7	270
Sole-fastening.....	B. F. Sturtevant.....	162, 970	May 4, 1875	221	71	7	776
Sole-fastening.....	F. O. Tobey.....	169, 062	Oct. 19, 1875	713	235	8	681
Sole-fastening materials, Apparatus for preparing.....	B. F. Sturtevant.....	162, 969	May 4, 1875	220	70, 71	7	776
Sole-fastening nail.....	L. Goddu.....	169, 257	Oct. 26, 1875	910	296	8	716
Sole-fastening nail.....	A. Van Wagenen.....	166, 663	Aug. 10, 1875	454	140	8	271
Sole-fastening rod.....	B. F. Sturtevant.....	162, 972	May 4, 1875	223	72	7	776
Sole fastening, Shoe.....	H. S. Cushman.....	169, 894	Nov. 16, 1875	587	182	8	826
Sole-fastening webs, Machine for severing.....	B. F. Sturtevant.....	166, 430	Aug. 3, 1875	233	71	8	232
Sole-fastenings, Machine for compressing.....	B. F. Sturtevant.....	159, 859	Feb. 16, 1875	598	198	7	279
Sole-fastenings, Nail-strip for.....	A. Van Wagenen.....	166, 659	Aug. 10, 1875	450	139	8	271
Sole-fastenings, Nail-strip for.....	A. Van Wagenen.....	166, 661	Aug. 10, 1875	452	139	8	271
Sole-fastenings, Nail-strip for.....	A. Van Wagenen.....	166, 662	Aug. 10, 1875	453	139	8	271
Sole-fastenings, Process for manufacture of.....	B. F. Sturtevant.....	162, 971	May 4, 1875	222	71	7	776
Sole for boots and shoes, Inner.....	A. Van Wagenen.....	166, 664	Aug. 10, 1875	455	140	8	271
Sole for shoes, Cork.....	C. Thackeray.....	161, 994	Apr. 13, 1875	363	122	7	631
Sole, Inner.....	E. F. Blossom and G. H. Clark.....	168, 604	Oct. 11, 1875	287	93	8	612
Sole-lining mechanism for boots and shoes.....	R. Dwyer.....	169, 790	Nov. 9, 1875	477	150	8	804
Sole machine, Shoe.....	J. W. Leferts.....	165, 595	July 13, 1875	452	137	8	79
Sole nailing machine, Shoe.....	L. Goddu.....	163, 474	May 18, 1875	713	{ 228 } 229	7	864
Sole tips, Device for forming shoe.....	J. J. Henry.....	158, 939	Jan. 19, 1875	566	188	7	117
Soles and uppers, Machine for uniting boot and shoe.....	G. McKay and H. P. Fairfield.....	169, 463	Nov. 2, 1875	128	41	8	752
Soles and uppers of boots and shoes, Uniting.....	G. V. Sheffield.....	168, 420	Oct. 5, 1875	90	31	8	578
Soles for boots and shoes, Die for flanging.....	F. D. Ballou.....	158, 882	Jan. 19, 1875	507	170	7	110
Soles, Hand-tool for channeling.....	L. Goddu.....	168, 478	Oct. 5, 1875	141	47	8	585
Soles of boots and shoes, Machine for edge-setting.....	B. J. Tayman.....	162, 206	Apr. 20, 1875	570	187	7	664
Soles of boots and shoes, Machinery for beating out.....	S. D. Tripp.....	164, 235	June 8, 1875	373	127	7	992
Soles of boots and shoes, Mechanism for molding.....	W. H. Palmer.....	162, 764	May 4, 1875	26	9	7	750
Soles of boots and shoes, Metallic fastening for.....	G. McKay.....	162, 087	Apr. 13, 1875	440	147	7	641
Soles to boots and shoes, Machine for attaching.....	C. W. Collyer.....	164, 363	June 15, 1875	510	168	7	1019
Soles to uppers, Fastening for uniting.....	B. F. Sturtevant.....	158, 999	Jan. 19, 1875	625	207	7	125
Solvents, Apparatus for the use and recovery of vaporized.....	J. R. Whiting and W. A. Lawrence.....	170, 424	Nov. 23, 1875	1086	342	8	901
Sower, Broadcast seed.....	R. Furnas.....	164, 159	June 8, 1875	303	104	7	983
Sower, Grass-seed.....	H. Moore.....	158, 432	Jan. 5, 1875	68	24	7	19
Sower, Plaster.....	F. C. Mcder.....	161, 145	Mar. 23, 1875	840	274	7	489
Sower, Seed.....	J. Burke.....	165, 406	July 13, 1875	276	82	8	53
Sower, Seed.....	J. W. Talley.....	161, 991	Apr. 13, 1875	361	121	7	630
Sower, Seed.....	A. Walker.....	160, 733	Mar. 9, 1875	440	146	7	420
Spade, Rotary.....	W. C. B. Richardson.....	166, 721	Aug. 17, 1875	529	162	8	291
Spark-arrester.....	D. Allard.....	159, 137	Jan. 26, 1875	769	253	7	152
Spark-arrester.....	D. Allard.....	171, 594	Dec. 28, 1875	925	303	8	1098

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Spark-arrester.....	R. Brayton, D. June, and O. S. French.	167, 738	Sept. 14, 1875	326	104	8	459
Spark-arrester.....	J. W. Buel.....	159, 017	Jan. 26, 1875	667	218	7	137
Spark-arrester.....	J. H. Carr.....	158, 904	Jan. 19, 1875	535	178	7	113
Spark-arrester.....	J. Du Bois.....	165, 662	July 20, 1875	531	162	8	106
Spark-arrester.....	C. L. Eastman.....	165, 080	June 29, 1875	1182	380	7	1124
Spark-arrester.....	W. Halsted.....	168, 091	Sept. 28, 1875	686	216	8	526
Spark-arrester.....	D. Hawkesworth.....	166, 870	Aug. 17, 1875	663	206	8	310
Spark-arrester.....	C. W. Humphreys and J. S. McCleary.	162, 070	Apr. 13, 1875	427	142	7	639
Spark-arrester.....	M. B. Mason.....	161, 803	Apr. 6, 1875	182	62	7	595
Spark-arrester.....	J. W. Nesmith.....	169, 831	Nov. 9, 1875	514	161	8	809
Spark-arrester.....	D. R. Proctor.....	164, 393	June 15, 1875	537	177	7	1023
Spark-arrester.....	W. H. Richardson.....	162, 691	Apr. 27, 1875	1043	333	7	731
Spark-arrester.....	C. G. Roberts.....	162, 498	Apr. 27, 1875	871	279	7	710
Spark-arrester.....	W. Stamp.....	164, 662	June 22, 1875	786	258	7	1065
Spark-arrester.....	J. Summers and G. W. Fay.....	158, 870	Jan. 19, 1875	497	167	7	108
Spark-arrester.....	D. Wiser and H. Schmieders.....	165, 907	July 20, 1875	763	233	8	138
Spark-arrester and stove-register, Combined.....	T. R. Freeman and P. Y. Jones.....	166, 981	Aug. 24, 1875	785	242	8	336
Spark-arrester, Locomotive.....	A. Berney.....	163, 568	May 25, 1875	819	260	7	885
Spark-arrester, Locomotive.....	A. Mitchell.....	160, 456	Mar. 2, 1875	179	62	7	374
Spark-arrester, Locomotive.....	C. S. and E. Osborn.....	160, 614	Mar. 9, 1875	332	112	7	405
Spark-arrester, Locomotive.....	W. M. Thornton.....	166, 040	July 27, 1875	901	278	8	169
Spark-arrester, Locomotive.....	W. G. Van Buskirk.....	168, 299	Sept. 28, 1875	874	280	8	553
Spark-conveyer.....	C. K. Cullers.....	169, 964	Nov. 16, 1875	644	202	8	833
Speaking-tube.....	D. E. Campbell and J. R. Creighton.	168, 137	Sept. 28, 1875	733	231	8	533
Speaking-tube.....	R. H. Hooper.....	170, 672	Dec. 7, 1875	17	5	8	953
Speaking-tube.....	B. Howard and J. Beadle.....	162, 476	Apr. 27, 1875	850	273	7	707
Spear, Fish.....	M. Jinks.....	168, 335	Oct. 5, 1875	16	6	8	567
Spectacle-frame.....	J. W. Stewart.....	170, 644	Nov. 30, 1875	1308	413	8	940
Spectacles.....	J. Gall.....	163, 648	May 25, 1875	894	283	7	895
Spectacles.....	F. Yeiser.....	170, 795	Dec. 7, 1875	128	42	8	968
Speculum.....	E. B. Harding and E. W. Higbee.....	170, 851	Dec. 7, 1875	174	59	8	974
Speculum.....	E. W. Higbee.....	167, 666	Sept. 14, 1875	266	83	8	451
Speed-changing device.....	J. W. Mead.....	168, 912	Oct. 19, 1875	577	190	8	662
Speed-indicator.....	M. A. Wier.....	170, 213	Nov. 23, 1875	896	220	8	874
Speed-measure.....	E. Brown.....	168, 870	Oct. 19, 1875	523	175	8	656
Speed-measure.....	S. F. Minton.....	164, 861	June 22, 1875	972	314	7	1088
Speed-regulator, Propeller.....	E. E. Bean.....	161, 376	Mar. 30, 1875	1079	349	7	528
Speeder.....	T. Mayor.....	165, 352	July 6, 1875	192	57	8	35
Speeders, &c., Roller-bearing for.....	S. Dyer.....	167, 654	Sept. 14, 1875	255	79	8	449
Sphygmoscope.....	E. A. Pond.....	161, 821	Apr. 6, 1875	205	69	7	598
Sphygmoscope.....	W. R. Pond.....	167, 785	Sept. 14, 1875	374	120	8	466
Spice-box.....	J. E. Camp.....	160, 157	Feb. 23, 1875	883	291	7	326
Spice-box.....	E. Norton.....	163, 394	May 18, 1875	645	206	7	855
Spice-box.....	G. B. Wheeler.....	160, 631	Mar. 9, 1875	345	117	7	407
Spice-box.....	W. A. Wicks.....	162, 130	Apr. 13, 1875	485	160	7	646
Spice-box, Revolving.....	T. W. F. Smitten.....	159, 122	Jan. 26, 1875	759	249	7	150
Spice-cabinet.....	R. H. Davies.....	164, 152	June 8, 1875	297	102	7	982
Spiegeleisen, Manufacture of.....	J. H. Etheridge.....	169, 793	Nov. 9, 1875	480	.....	8	805
Spike.....	J. J. Adgate.....	158, 665	Jan. 12, 1875	296	100	7	65
Spike.....	C. K. Marshall.....	161, 975	Apr. 13, 1875	348	117	7	629
Spike.....	G. N. Sanders.....	159, 457	Feb. 2, 1875	199	65	7	212
Spike.....	G. N. Sanders.....	159, 611	Feb. 9, 1875	352	116	7	241
Spike.....	G. N. Sanders.....	164, 878	June 22, 1875	991	319	7	1090
Spike.....	G. N. Sanders.....	171, 486	Dec. 28, 1875	823	270	8	1084
Spike.....	T. R. Timby.....	171, 447	Dec. 21, 1875	767	253	8	1068
Spike.....	T. R. Timby.....	171, 448	Dec. 21, 1875	768	253	8	1068
Spike and nail extractor.....	J. Passeno.....	168, 281	Sept. 28, 1875	859	274	8	551
Spike-machine.....	W. Haddock.....	170, 255	Nov. 23, 1875	936	291	8	880
Spike-machine.....	D. H. McGookin.....	164, 319	June 8, 1875	454	150	7	1003
Spike-making machine, Split.....	A. Whittemore.....	170, 322	Nov. 23, 1875	994	311	8	888
Spike, Railway.....	J. M. Kent.....	163, 208	May 11, 1875	455	147	7	814
Spindle: See Loom-shuttle spindle. Millstone-spindle. Lubricating-spindle. Spinning-machine spindle. Mill-spindle. Split spindle.							
Spindle-bearings and their lubrication.....	J. M. Stone.....	160, 124	Feb. 23, 1875	854	282	7	322
Spindle-bolster.....	W. Jenckes.....	168, 644	Oct. 11, 1875	327	106	8	618
Spindle-steps in their supports, Securing.....	A. S. Hopkins.....	168, 022	Sept. 21, 1875	592	189	8	507
Spindles, Bearing-surface for.....	E. D. Murfey.....	166, 885	Aug. 17, 1875	681	211	8	312
Spindles, Preparation for bearing-surfaces for.....	E. D. Murfey.....	166, 886	Aug. 17, 1875	681	.....	8	312
Spinning-bobbin.....	J. Birkenhead.....	160, 383	Mar. 2, 1875	111	40	7	364
Spinning-frame.....	J. E. Atwood.....	169, 507	Nov. 2, 1875	165	55	8	757
Spinning-frame bobbin.....	T. B. Wattles.....	164, 062	June 1, 1875	195	70	7	957
Spinning-frame bolster.....	J. A. Matteson.....	159, 034	Jan. 26, 1875	682	224	7	139
Spinning-frame ring.....	J. W. Wattles.....	166, 909	Aug. 17, 1875	700	217	8	315
Spinning-frames, Building mechanism for.....	J. M. Stone.....	166, 316	Aug. 3, 1875	120	37	8	216
Spinning-frames, Traverse mechanism for ring.....	J. Scott.....	158, 530	Jan. 5, 1875	157	53	7	31
Spinning-jacks, Stopping mechanism for.....	F. H. Crocker.....	164, 429	June 15, 1875	577	187	7	1028
Spinning-machine.....	J. P. Hillard.....	169, 170	Oct. 26, 1875	834	271	8	706
Spinning-machine.....	N. Marshall.....	171, 298	Dec. 21, 1875	635	208	8	1050
Spinning-machine.....	C. Z. Mattison.....	162, 246	Apr. 20, 1875	608	198	7	669
Spinning-machine fliers.....	C. K. Pevey.....	165, 363	July 6, 1875	200	60	8	36
Spinning-machine regulator, Hemp.....	C. Herschaft.....	164, 452	June 15, 1875	595	193	7	1030
Spinning-machine spindle.....	J. C. Arnold.....	170, 929	Dec. 14, 1875	261	87	8	993
Spinning-machine spindle.....	S. H. Le Moyne.....	161, 888	Apr. 13, 1875	275	92	7	619
Spinning-machine spindle.....	A. M. Wade.....	164, 059	June 1, 1875	193	70	7	957
Spinning-machine, &c., top-roll.....	E. Card.....	164, 716	June 22, 1875	839	273	7	1072

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Spinning-machine whirl	D. Wilson, jr., and T. Hall	167, 965	Sept. 21, 1875	538	173	8	499
Spinning machinery, Stop-motion for cotton	T. O'Donnell and E. K. Walker	167, 193	Aug. 31, 1875	1007	313	8	374
Spinning machinery, Wool	C. Martin	168, 512	Oct. 5, 1875	175	56	8	589
Spinning mule or jack	M. A. Furbush	168, 979	Oct. 19, 1875	635	210	8	671
Spinning-ring	J. T. Lamb	164, 309	June 8, 1875	446	147	7	1002
Spinning-ring	W. W. Stearns	164, 492	June 15, 1875	628	203	7	1034
Spinning-ring and ring-rail	G. Richardson	163, 887	June 1, 1875	43	15	7	936
Spinning-ring blank	S. Forehand and H. C. Wadsworth.	161, 943	Apr. 13, 1875	323	109	7	626
Spinning-ring blanks, Die for forging	S. Forehand and H. C. Wadsworth.	161, 334	Mar. 30, 1875	1034	336	7	522
Spinning-ring holder	G. Draper	170, 826	Dec. 7, 1875	154	51	8	971
Spinning-ring holder	C. E. Trowbridge	163, 550	May 18, 1875	792	250	7	873
Spinning-ring traveler	H. Halvorson	168, 739	Oct. 11, 1875	409	133	8	630
Spinning-rings, Device for securing and adjusting	J. E. and E. Atwood	168, 956	Oct. 19, 1875	612	203	8	668
Spinning-rings, Holding and adjusting device for	F. J. Dutcher	164, 536	June 15, 1875	663	215	7	1039
Spinning-rings to rails, Securing	J. Booth	164, 256	June 8, 1875	394	134	7	995
Spinning-wheel	J. J. Kendall	170, 630	Nov. 30, 1875	1298	410	8	938
Spiral springs, Machine for making	S. L. Bower	171, 089	Dec. 14, 1875	408	135	8	1012
Spiral washers, Machine for forming	S. Trethewey	159, 232	Jan. 26, 1875	859	280	7	164
Spirits, Apparatus for flavoring	M. Grube	160, 093	Feb. 23, 1875	830	273	7	318
Spirits, Apparatus for manufacture of	P. Griffin	170, 254	Nov. 23, 1875	935	291	8	880
Spittoon-mat	J. Lee	171, 291	Dec. 21, 1875	631	206	8	1049
Splint, Fracture	G. H. Brown and R. C. Davis	161, 323	Mar. 30, 1875	1025	334	7	521
Splint-making machine	E. E. White	162, 730	Apr. 27, 1875	1089	345	7	737
Split keys, Machine for making	W. H. Fox	167, 445	Sept. 7, 1875	59	18	8	414
Split spindles, Die for crimping the halves of	H. M. Johnson	162, 661	Apr. 27, 1875	1008	323	7	727
Spoke-socket	J. B. Blatt	165, 403	July 13, 1875	274	81	8	53
Spoke-socket	A. Clist	167, 498	Sept. 7, 1875	101	32	8	421
Spoke-socket	H. A. Holt	170, 732	Dec. 7, 1875	73	22	8	960
Spoke-socket	B. Poulson	165, 365	July 6, 1875	201	61	8	36
Spoke-socket and felly-plate	H. T. Briggs	159, 149	Jan. 26, 1875	781	256	7	153
Spoke socket, Vehicle-wheel	M. Glassbrook	159, 917	Feb. 16, 1875	652	216	7	287
Spoke-tapering machine	P. Coon	158, 681	Jan. 12, 1875	308	105	7	67
Spoke-tenoning machine	H. R. Carmany	169, 414	Nov. 2, 1875	87	27	8	746
Spoke-tenoning machine	J. R. Coleman and S. Myers	164, 718	June 22, 1875	840	273	7	1072
Spoke-tenoning machine	C. W. Latham	167, 547	Sept. 7, 1875	148	45	8	427
Spoke-tenoning machine	W. M. Sharpsteen	160, 722	Mar. 9, 1875	430	143	7	419
Spoke-tenoning machine	W. H. Von Behren	165, 895	July 20, 1875	752	230	8	136
Sponge and pulp fabric	J. L. Kendall	167, 259	Aug. 31, 1875	1063	331	8	382
Sponge-cup	B. Brower	158, 690	Jan. 12, 1875	253	86	7	60
Sponge-holder	E. G. Conradson and A. Torsell	158, 573	Jan. 12, 1875	211	72	7	54
Spool	N. I. Allen	163, 959	June 1, 1875	100	34	7	945
Spool-exhibiting case	J. D. Cutter	168, 460	Oct. 5, 1875	124	43	7	583
Spool for braid, thread, &c., Elongated	F. Koch and R. Brass	159, 333	Feb. 2, 1875	88	30	7	196
Spoon-holder	S. W. Babbitt and H. B. Beach	169, 224	Oct. 26, 1875	880	286	8	712
Spool-holder	C. T. Cleaveland	163, 742	May 25, 1875	972	307	7	905
Spool-holder	J. J. Elliott	171, 365	Dec. 21, 1875	693	228	8	1058
Spool-holder	F. J. Taylor	160, 127	Feb. 23, 1875	856	283	7	322
Spool, Jack	H. M. Guy	163, 483	May 18, 1875	726	231	7	866
Spool-machine	G. E. Lyman	158, 644	Jan. 12, 1875	273	92	7	62
Spooling and doubling machine	J. Wild and E. Hey	167, 375	Aug. 31, 1875	1165	367	8	397
Spooling and winding machine guide	G. Richardson	167, 272	Aug. 31, 1875	1072	334	8	353
Spooling-machine	S. D. Learned	166, 016	July 27, 1875	880	271	8	166
Spooling-machine	T. A. Mathewson	160, 058	Feb. 23, 1875	801	263	7	314
Spooling-machine	J. W. West	160, 292	Mar. 2, 1875	32	12	7	353
Spooling-machine	J. W. West	161, 647	Apr. 6, 1875	50	19	7	576
Spooling-machine-bobbin holder	T. A. Mathewson	158, 382	Jan. 5, 1875	27	9	7	12
Spooling-machine-bobbin supporter	A. M. Wade	159, 053	Jan. 26, 1875	697	229	7	142
Spouts, Making sheet-metal	M. S. Leidy	165, 596	July 13, 1875	458	137	8	79
Spring:							
See Bed-bottom spring.	Seat-spring.						
Boot-shank spring.	Spiral spring.						
Burner-spring.	Torsion-spring.						
Car-spring.	Torsional spring.						
Carriage-spring.	Vehicle-spring.						
Chair-spring.	Vehicle side spring.						
Door-spring.	Wagon-spring.						
Furniture-spring.	Watch-spring.						
Piston-spring.	Watch-case spring.						
Rubber-spring.							
Spring	E. H. Tyler	170, 973	Dec. 14, 1875	307	102	8	999
Spring-chair	A. W. Coates	164, 811	June 22, 1875	926	300	7	1083
Spring-motor	H. Bolton	163, 447	May 18, 1875	688	220	7	861
Spring-motor	E. Shiver	171, 438	Dec. 21, 1875	760	250	8	1067
Spring motor, Volute	W. S. Shoemaker	170, 310	Nov. 23, 1875	982	307	8	887
Spring-power	V. Moeslein	167, 009	Aug. 24, 1875	816	253	8	340
Spring-seat support	F. A. Hawley and A. Pearsall	158, 707	Jan. 12, 1875	330	112	7	70
Spring-setting machine	A. J. Fisk	165, 087	June 29, 1875	1187	382	7	1124
Spring-washers, Machine for making	J. W. Grover	169, 260	Oct. 26, 1875	915	297	8	716
Sprinkler:							
See Cotton-sprinkler.	Railway-sprinkler.						
Fountain-sprinkler.	Rose-sprinkler.						
Garden-sprinkler.	Street-sprinkler.						
Sprinkling-pipe	F. Grinnell	169, 355	Nov. 2, 1875	34	10	8	739
Sprinkling pipes, Method of drilling holes in water	F. Grinnell	169, 353	Nov. 2, 1875	31	9	8	739
Square	W. H. Walker	167, 482	Sept. 7, 1875	87	28	8	419
Square and bevel, Combined try	J. L. Larrison and H. Leigh	160, 106	Feb. 23, 1875	839	276	7	320
Square, Slotted framing	J. H. McInnes	168, 656	Oct. 11, 1875	337	109	8	620
Square, Stair-builder's adjustable	C. B. Kirkpatrick	164, 008	June 1, 1875	140	50	7	950
Stage plank and carrier	W. S. Booth	170, 335	Nov. 23, 1875	1005	315	8	890
Stage-scenery	G. P. Gordon	171, 221	Dec. 21, 1875	567	186	8	1041

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Stage-scenery guide	C. Higbee	158,940	Jan. 19, 1875	567	188	7	117
Staging bracket, Chimney	C. Willard	160,736	Mar. 9, 1875	444	147	7	420
Stair-curves, Instrument for scribing	A. Beck	163,626	May 25, 1875	875	276	7	892
Stair-pad	T. F. Walter	161,305	Mar. 23, 1875	991	324	7	509
Stair-rail-joint fastening	W. H. Pritchett	167,118	Aug. 24, 1875	916	286	8	354
Stair-rod	A. W. Porter	162,416	Apr. 20, 1875	771	270	7	689
Stair-rod securer	T. W. Gardner	158,930	Jan. 19, 1875	560	185	7	116
Stalk-cutter	A. Y. Eckman	161,873	Apr. 13, 1875	262	87, 88	7	618
Stalk-cutter	C. H. Gaylord and E. M. Ayers	166,200	Aug. 3, 1875	17	6	8	201
Stalk-cutter, plow, and seeding-machine, Combined	S. Ixson	158,408	Jan. 5, 1875	49	17, 18	7	16
Stall, Cattle	I. R. Marsh and I. Bell	167,551	Sept. 7, 1875	150	46, 47	8	427
Stamp-attaching and letter-sealing machine	E. T. Thomas	165,520	July 13, 1875	385	114	8	69
Stamp-canceler	D. M. Cooper	167,268	July 6, 1875	149	45	8	29
Stamp-canceler	M. Lewis	164,687	June 22, 1875	809	264 } 265 }	7	1068
Stamp, check, &c., Revenue	G. W. Casilear and W. C. McIntire	167,987	Sept. 21, 1875	555	179	8	501
Stamp composition, Elastic	J. Scott	167,856	Sept. 21, 1875	435	.....	8	486
Stamp for cigar-boxes, Revenue	F. C. Hamilton	168,014	Sept. 21, 1875	583	187	8	506
Stamp, Hand	E. D. Chamberlain	163,500	May 18, 1875	500	179	7	844
Stamp, Hand	J. F. W. Dornan	164,273	June 8, 1875	411	138	7	997
Stamp, Hand	B. B. Hill	163,197	May 11, 1875	447	145	7	813
Stamp, Hand	S. F. Robinson	167,621	Sept. 14, 1875	226	71	8	445
Stamp, Hand	J. Sigwa t, jr.	161,450	Mar. 30, 1875	1144	369	7	536
Stamp holder, Postage	P. W. Hall	161,225	Mar. 23, 1875	912	298	7	499
Stamp holder, Postage	P. W. Hall	164,833	June 22, 1875	944	305	7	1085
Stamp inking apparatus, Hand	D. A. Edsall	163,585	May 25, 1875	838	264	7	887
Stamp, Marking	L. Balling r	171,257	Dec. 21, 1875	600	196	8	1045
Stamp-mill feeder	J. Walker	167,042	Aug. 24, 1875	838	262	8	343
Stamp, Ore	W. C. Ferguson and J. S. Jones	168,245	Sept. 28, 1875	827	264	8	546
Stamp, Postage	C. F. Steel	159,125	Oct. 26, 1875	796	258	8	700
Stamp-stems, Tappet-clamp for	N. J. Coleman	170,236	Nov. 23, 1875	918	286	8	878
Stamp, Ticket	L. J. Blades	165,702	July 20, 1875	566	173	8	111
Stamps, Device for securing and canceling revenue	F. C. Hamilton	168,013	Sept. 21, 1875	582	187	8	506
Stamps, Perforating	W. G. Brown	169,143	Oct. 26, 1875	810	263	8	702
Stamping-mill	H. W. Colver	159,303	Feb. 2, 1875	53	20	7	192
Stamping-mills, Shoe and die for	W. Hainsworth	158,702	Jan. 12, 1875	326	111	7	70
Stand:							
See Baking-stand.	Pie-plate stand.						
Bracket-stand.	Portfolio-stand.						
Camera-stand.	Railway-switch stand.						
Dish-stand.	Range-boiler stand.						
Dry-goods stand.	Scale and balance stand.						
Egg-stand.	Stereoscope and grapho- scope stand.						
Flower-stand.	Towel-stand.						
Flower and fruit stand.	Umbrella-stand.						
Globe-stand.	Wash-stand.						
Lamp-stand.	Water-cooler stand.						
Music-stand.	Wire stand.						
Pegging-stand.							
Photographic-head-rest stand.							
Standard and spring combined	G. H. Spencer	161,173	Mar. 23, 1875	862	282	7	492
Staple-blanks, Manufacture of	J. W. Shannon	159,044	Jan. 26, 1875	689	227	7	141
Staple-pointing machine	J. Adt	162,991	May 11, 1875	257	83	7	789
Starch-lubricant	M. E. Robinson	163,809	May 25, 1875	1627	.....	7	913
Starching-machine	L. Sternberger	169,054	Oct. 19, 1875	706	233	8	680
Station-indicator	L. V. Adams	166,445	Aug. 10, 1875	269	81	8	245
Station-indicator	C. A. Blomquist	163,844	June 1, 1875	8	3	7	932
Station-indicator	J. W. Bryan	158,900	Jan. 19, 1875	530	177	7	112
Station-indicator	S. M. Dewey	166,510	Aug. 10, 1875	323	98	8	252
Station-indicator	C. A. Evans	170,539	Nov. 30, 1875	1206	380	8	926
Station-indicator	P. H. Harris	168,639	Oct. 11, 1875	322	105	8	618
Station-indicator	F. G. Johnson	158,798	Jan. 19, 1875	432	144	7	100
Station-indicator	S. P. Littlefield	163,936	June 1, 1875	81	284	7	942
Station-indicator	J. P. Rhoads	171,531	Dec. 28, 1875	866	95	8	1089
Station-indicator	A. M. Smith	163,031	May 11, 1875	295	281	7	793
Station-indicator	J. D. Smith	161,171	Mar. 23, 1875	861	236	7	492
Station-indicator, Electrical	J. F. Kettell	171,387	Dec. 21, 1875	713	28	8	1061
Stave-crozing machine	A. B. Kingsbury	159,551	Feb. 9, 1875	308	100	7	234
Stave-dressing machine	G. A. Shideler	163,336	May 18, 1875	595	190	7	848
Stave-jointing machine	B. Barker	168,125	Sept. 28, 1875	720	227	8	531
Stave-jointing machine	E. J. Granger	669,635	Nov. 9, 1875	315	100 } 101 }	8	784
Stave-jointing machine	E. and B. Holmes	166,872	Aug. 17, 1875	664	207	8	310
Stave-jointing machine	W. J. Seymour	161,162	Mar. 23, 1875	855	279	7	491
Stave-sawing machine	W. Barber	161,350	May 18, 1875	608	194	7	850
Staves, Crozing	J. Pennie, jr.	168,410	Oct. 5, 1875	83	28	8	576
Steak-tenderer	T. Billington	168,602	Oct. 11, 1875	286	93	8	612
Steam and air brake	W. L. Burt and G. H. Little	161,927	Apr. 13, 1875	310	103 } 104 }	7	624
Steam and air brake	W. M. Henderson	159,512	Feb. 9, 1875	277	89	7	230
Steam and air brake	J. R. Reniff	160,955	Mar. 16, 1875	657	214	7	456
Steam and gas pipe hanger	G. W. Blake	168,217	Sept. 28, 1875	803	255	8	543
Steam-boiler	R. Dempster	170,348	Nov. 23, 1875	1016	318	8	892
Steam-boiler	C. E. Emery	165,990	July 27, 1875	856	263 } 264 }	8	162
Steam-boiler	T. W. Godwin	169,434	Nov. 2, 1875	104	32, 33	8	749
Steam-boiler	F. Hungerford	161,964	Apr. 13, 1875	340	114	7	628
Steam-boiler	E. D. Deavitt, jr.	165,006	June 29, 1875	1118	361	7	1115
Steam-boiler	J. Shackleton	171,436	Dec. 21, 1875	759	250	8	1066
Steam-boiler	J. H. Wilkinson	167,595	Sept. 7, 1875	192	60	8	433
Steam-boiler, Circulating	L. Knight	163,082	May 11, 1875	339	110	7	799
Steam-boiler crown-bar	J. McPhail	167,004	Aug. 24, 1875	809	251	8	339
Steam boiler feeding apparatus	N. Yagn	165,435	July 13, 1875	304	90	8	57

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Steam-boiler fire-tube	H. Bailey	166, 180	Aug. 3, 1875	1	1	8	199
Steam-boiler fire tubes and flues, Bushing for	H. Duesh	167, 157	Aug. 31, 1875	978	304	8	370
Steam-boiler, Flue and tubular	J. Barton	167, 054	Aug. 24, 1875	852	265	8	345
Steam-boiler indicator	A. Moon	168, 913	Oct. 19, 1875	578	190	8	602
Steam-boiler-man-hole cover	H. Collinson	161, 934	Apr. 13, 1875	317	106	7	625
Steam-boiler, Reversible	S. S. Vail	170, 032	Nov. 16, 1875	701	221	8	842
Steam-boiler, Rotary	C. W. Pierce	166, 807	Aug. 17, 1875	606	187	8	302
Steam-boiler, Sectional	U. D. Anderson	169, 758	Nov. 9, 1875	445	140	8	800
Steam-boiler, Sectional	A. Kipp, jr	164, 377	June 15, 1875	523	172	7	1021
Steam-boiler, Sectional	C. L. Sanborn and H. M. Shaw ..	161, 161	Mar. 23, 1875	854	279	7	491
Steam-boiler, Sectional	J. F. Taylor	158, 754	Jan. 12, 1875	367	125	7	76
Steam-boiler, Sectional	H. Whittingham	161, 582	Mar. 30, 1875	1274	409	7	553
Steam-boiler, Superheater	T. Vernon	170, 316	Nov. 23, 1875	987	309	8	888
Steam-boiler water-feeder	P. N. J. Macabies	171, 149	Dec. 14, 1875	472	154	8	1020
Steam-boiler water regulator and indicator	D. Cook	169, 676	Nov. 9, 1875	353	112	8	789
Steam-boilers and pipes, Covering for	J. C. Reed	171, 425	Dec. 21, 1875	748	246	8	1065
Steam-boilers, Composition for covering	T. Webber and C. Stedman	168, 308	Sept. 28, 1875	881	.....	8	554
Steam-boilers, Compound for preventing scales in	J. H. Pitts	160, 030	Feb. 23, 1875	776	.....	7	310
Steam-boilers, Compound for removing incrustation in	G. A. Moore and W. McCloud ..	162, 491	Apr. 27, 1875	864	.....	7	709
Steam-boilers, Crown-sheet for	S. B. Gannon	164, 540	June 15, 1875	667	216	7	1040
Steam-boilers, Fire-box attachment to	J. Lee	158, 425	Jan. 5, 1875	63	22	7	18
Steam-boilers, Sediment-collector for	J. Popper	168, 779	Oct. 11, 1875	442	144	8	635
Steam-brake	T. F. Fouts and E. Planck	161, 677	Apr. 6, 1875	77	27	7	580
Steam-brake	J. T. Prendergast	161, 271	Mar. 23, 1875	961	313	7	505
Steam-brake	T. Wilson	164, 066	June 1, 1875	198	72	7	958
Steam-brake cylinder, Locomotive	J. N. Lauder	166, 994	Aug. 24, 1875	801	248	8	338
Steam-brake, Locomotive	L. B. Salisbury	166, 895	Aug. 17, 1875	690	213	8	313
Steam-engine	H. P. Case	164, 804	June 22, 1875	917	297	7	1082
Steam-engine	H. Davey	167, 509	Sept. 7, 1875	112	35	8	422
Steam-engine	J. S. Foster	171, 275	Dec. 21, 1875	617	202	8	1947
Steam-engine	S. B. Frank	169, 249	Oct. 26, 1875	903	293	8	715
Steam-engine	E. D. Leavitt, jr	166, 706	Aug. 17, 1875	513	157	8	288
Steam-engine	J. M. Marty	162, 485	Apr. 27, 1875	858	276	7	708
Steam-engine	J. W. Middleton	160, 218	Feb. 23, 1875	937	307	7	333
Steam-engine	E. V. Oefele	168, 102	Sept. 28, 1875	697	220	8	528
Steam-engine	W. Read	165, 869	July 20, 1875	729	222	8	133
Steam-engine	J. B. Root	171, 174	Dec. 14, 1875	403	163	8	1023
Steam-engine	G. B. Stevenson	168, 803	Oct. 11, 1875	462	151	8	638
Steam-engine	D. K. West	165, 139	June 29, 1875	1235	397	7	1131
Steam-engine	W. C. Wilcox	159, 733	Feb. 9, 1875	464	154	7	257
Steam-engine and driving appliance	S. E. Stokes, jr	171, 187	Dec. 14, 1875	502	166	8	1024
Steam-engine bed-plate	J. D. Richardson	158, 980	Jan. 19, 1875	604	200	7	122
Steam-engine cylinder	J. E. Taylor	162, 120	Apr. 13, 1875	477	157	7	645
Steam-engine cylinders, Port for	W. C. Church	166, 849	Aug. 17, 1875	643	200	8	308
Steam-engine, Disk	G. R. Winkler	167, 146	Aug. 24, 1875	941	294	8	358
Steam-engine frame	W. S. Finney	170, 218	Nov. 23, 1875	929	289	8	879
Steam-engine frame, Portable	J. W. Hill	160, 189	Feb. 23, 1875	909	299	7	329
Steam-engine indicator	J. W. Thompson	167, 364	Aug. 31, 1875	1153	363	8	395
Steam-engine lubricator	J. Farnan	162, 160	Apr. 20, 1875	529	174	7	659
Steam-engine lubricator	J. Powell	159, 962	Feb. 16, 1875	692	230	7	292
Steam-engine lubricator	M. L. Waring	165, 770	July 20, 1875	625	192	8	119
Steam-engine lubricator	J. Wheelock	165, 901	July 20, 1875	757	232	8	137
Steam-engine, Portable	F. F. Landis	161, 970	Apr. 13, 1875	344	116	7	628
Steam-engine, Portable	L. Sweet	163, 823	May 25, 1875	1038	329	7	914
Steam-engine pyrometer	G. B. Dixwell	160, 400	Mar. 2, 1875	126	46	7	367
Steam-engine pyrometrical indicator	G. B. Dixwell	160, 401	Mar. 2, 1875	128	46	7	367
Steam-engine, Rock-drill	J. Brandon	163, 631	May 25, 1875	880	277	7	893
Steam-engine stop-motion	T. Evans	167, 231	Aug. 31, 1875	1039	323	8	378
Steam-engines, Automatic regulating device for	A. De Beaumont	161, 764	Apr. 6, 1875	150	52	7	590
Steam-engines, pumps, &c, Piston for	F. Felbinger and J. G. Koch ..	161, 400	Mar. 30, 1875	1101	356	7	531
Steam-engines, Reversing-link for	J. G. Simpson	160, 358	Mar. 2, 1875	90	33	7	361
Steam, gas, or water pipes, Connecting	C. C. Walworth	166, 735	Aug. 17, 1875	544	167	8	293
Steam-generator	H. C. Bull	159, 069	Jan. 26, 1875	709	233	7	144
Steam-generator	J. and G. Firmenich	165, 222	July 6, 1875	75	22	8	19
Steam-generator	J. Goulding	166, 768	Aug. 17, 1875	571	175	8	297
Steam-generator	W. E. Haxtun	159, 178	Jan. 26, 1875	808	265	7	157
Steam-generator	S. R. Mathewson	161, 423	Mar. 30, 1875	1121	362	7	533
Steam-generator	G. T. McLauthlin	166, 398	Aug. 3, 1875	199	59, 60	8	227
Steam-generator	J. A. Miller	161, 258	Mar. 23, 1875	949	309	7	503
Steam-generator	D. Renshaw	162, 497	Apr. 27, 1875	870	278	7	710
Steam-generator	D. Renshaw	168, 923	Oct. 19, 1875	587	194	8	664
Steam-generator	H. M. Smith	170, 196	Nov. 23, 1875	882	276	8	873
Steam-generator	R. H. Thom	167, 711	Sept. 14, 1875	303	96	8	456
Steam-generator for cooking, &c	W. Cooper	160, 165	Feb. 23, 1875	890	293	7	327
Steam generator for cooking, &c	T. T. Pearson	158, 516	Jan. 5, 1875	146	49	7	29
Steam-generator furnace	H. M. Smith	161, 361	Mar. 30, 1875	1059	345	7	525
Steam-generator joint	H. Whittingham	159, 992	Feb. 16, 1875	722	240	7	296
Steam-generator, Sectional	E. M. Butz and G. M. Jones ..	164, 072	June 8, 1875	228	80	7	973
Steam-generator, Sectional	G. H. Starbuck	163, 820	May 25, 1875	1035	328	7	914
Steam-generator, Sectional	G. W. Walker and M. Pratt ..	168, 198	Sept. 28, 1875	787	250	8	541
Steam-generators, Circulation in	R. Mill	164, 580	June 15, 1875	701	228	7	1045
Steam-generators, Fusible plug for	J. F. Mahoney	161, 422	Mar. 30, 1875	1119	362	7	533
Steam-heater	J. F. McKenney	167, 186	Aug. 31, 1875	1001	311	8	373
Steam-heater	A. Van Horn	158, 546	Jan. 5, 1875	169	58	7	32
Steam or water pressure regulator	J. E. Watts	161, 917	Apr. 13, 1875	301	101	7	23
Steam-pipe trap	C. A. Read	171, 424	Dec. 21, 1875	747	246	8	1065
Steam-pipes to buildings, Application of	C. C. Walworth	164, 700	June 22, 1875	824	269	7	1070
Steam-trap	G. M. Hopkins	162, 168	Apr. 20, 1875	537	176	7	660
Steam-trap	J. M. Meharg	162, 567	Apr. 27, 1875	926	297	7	717

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Steam-trap	F. A. Pratt	162,765	May 4, 1875	26	9, 10	7	750
Steam-washer	M. Howe	163,104	Oct. 26, 1875	776	252	8	697
Steamer and boiler	C. Busch	163,735	May 25, 1875	966	305	7	904
Steamer, Cooking	M. Pifer	169,373	Nov. 2, 1875	52	16	8	742
Steamer, Culinary	H. M. Welch	164,063	June 1, 1875	196	71	7	957
Steamer, Vegetable	P. D. Damon	169,779	Nov. 9, 1875	463	146	8	803
Steaming-table	A. J. Randall	167,689	Sept. 14, 1875	284	90	8	453
Steel, Converting cast-iron articles into	S. G. Flagg	162,047	Apr. 13, 1875	408		7	637
Steel, Manufacture of	J. Eygnem	161,398	Mar. 30, 1875	1099		7	531
Steel, Manufacture of	F. J. Slade	171,183	Dec. 14, 1875	499		8	1024
Steel, Manufacture of chrome	J. Baur	170,507	Nov. 30, 1875	1177		8	922
Steel, Process of manufacturing	F. Berchtold	170,150	Nov. 23, 1875	842		8	867
Steel, Reworking	J. N. Lauth	160,209	Feb. 23, 1875	927		7	332
Steel, Tempering and forming articles of	G. F. Simonds	169,736	Nov. 9, 1875	414	132	8	797
Steering apparatus	P. H. Jackson	159,826	Feb. 16, 1875	567	188 189	7	275
Steering apparatus	M. Townsend	171,449	Dec. 21, 1875	768	253	8	1068
Steering apparatus	P. R. Voorhees	162,720	Apr. 27, 1875	1074	342	7	735
Steering apparatus, Pneumatic	G. W. Baird and J. C. Lewis	169,612	Nov. 9, 1875	289	93	8	781
Steering gear, Vessel	D. Scattergood	163,890	June 1, 1875	46	15	7	937
Steering-propeller	I. T. Payne	171,313	Dec. 21, 1875	648	212	8	1051
Stench-trap	J. D. Pierce	166,551	Aug. 10, 1875	355	109	8	257
Stench-trap	J. P. Schmitz	158,528	Jan. 5, 1875	156	53	7	31
Stench-trap	R. L. Walker	160,800	Mar. 16, 1875	528	171	7	438
Stench-trap, Dry	J. H. Boschen	169,232	Oct. 26, 1875	887	288	8	713
Stench-traps, Drain-screw attachment for	W. A. Butler	163,737	May 25, 1875	968	306	7	904
Stencil-cutter	P. L. O'Brien	160,613	Mar. 9, 1875	331	112	7	405
Stencil-plate	W. M. Kellie	168,400	Oct. 5, 1875	73	26	8	575
Stencil-plate	G. E. Warren	159,725	Feb. 9, 1875	455	152	7	256
Stereoscope	H. J. Lewis	165,241	July 6, 1875	91	27	8	21
Stereoscope	W. H. Lewis	168,652	Oct. 11, 1875	332	108	8	619
Stereoscope	W. H. Lewis	170,749	Dec. 7, 1875	88	28	8	962
Stereoscope	P. Murphy	161,054	Mar. 23, 1875	751	247	7	478
Stereoscope	H. Rigby	161,278	Mar. 23, 1875	967	316	7	505
Stereoscope	L. D. Sibley	166,942	Aug. 24, 1875	746	231	8	330
Stereoscope	J. F. Steward	171,661	Dec. 14, 1875	385	127	8	1009
Stereoscope	M. A. E. Whitner	158,555	Jan. 5, 1875	177	61	7	33
Stereoscope and graphoscope, Stand	J. Cremer	163,000	May 11, 1875	263	85	7	790
Stereoscope, Revolving	J. F. Steward	163,613	May 25, 1875	864	272	7	890
Stereoscopic picture holder	J. D. Rice	165,870	July 20, 1875	729	232	8	133
Stereoscopic-print cutter	T. W. Smillie and A. Siebert	162,960	May 4, 1875	212	68	7	775
Stereotype-block	J. L. Firm	168,977	Oct. 19, 1875	633	209	8	670
Stereotype-block	A. N. Kellogg	163,873	June 1, 1875	33	10	7	935
Stereotype-blocks, Registering device for	A. J. O'Shea	161,542	Mar. 30, 1875	1236	398	7	548
Stereotype-matrices, Stretcher for	T. J. Mayall and R. W. Harnett	159,696	Feb. 9, 1875	429	143	7	252
Stereotype-plate	A. N. Kellogg	163,874	June 1, 1875	34	10	7	935
Stereotype-plate holder	A. N. Kellogg	163,872	June 1, 1875	32	10	7	935
Stereotype-plate holder	A. N. Kellogg and S. J. Schock	166,702	Aug. 17, 1875	508	156	8	287
Stereotype-plates, Machine for shaving the backs of curved.	T. J. Mayall and R. W. Harnett	159,946	Feb. 16, 1875	677	225	7	290
Still	H. Deymann and E. Melcher	169,970	Nov. 16, 1875	648	203	8	834
Still	E. D. Loveridge	167,346	Aug. 31, 1875	1137	358	8	392
Still for the manufacture of alcoholic spirits	J. H. and J. B. Beam	165,901	July 6, 1875	58	17	8	17
Still, Oil	J. C. Dickey	166,349	Aug. 3, 1875	148	46	8	220
Still, Petroleum	J. L. Stewart	162,965	May 4, 1875	215	69	7	775
Stilts	F. Beaumont, jr.	168,213	Sept. 28, 1875	799	254	8	542
Stirrup	J. B. Waggoner	163,120	May 11, 1875	373	121	7	803
Stirrup, Riding-saddle	J. C. Wagstaff	169,209	Oct. 26, 1875	862	281	8	710
Stitch-imitation and stitch-dividing mechanism	C. S. Dunbrack	158,632	Jan. 12, 1875	262	89	7	61
Stitch-ripper	G. St. George, jr.	164,336	June 8, 1875	469	155	7	1005
Stock, Machine for counting	W. F. Jeans and D. H. Bailey	167,254	Aug. 31, 1875	1059	329 330	8	381
Stocking and skirt holder	A. Warren	159,291	Feb. 2, 1875	44	16	7	191
Stocking-heels, Machine for re-inforcing	A. C. Carey	162,028	Apr. 13, 1875	388	130	7	634
Stocking or skirt supporter clasp	G. J. Capewell	159,154	Jan. 26, 1875	785	257	7	154
Stocking-supporter clasp	E. L. Howard	163,778	May 25, 1875	1000	317	7	909
Stockings, Revolving rack for holding	D. K. Wertman	160,373	Mar. 2, 1875	102	37	7	363
Stone and marble dressing machine	O. Abell	165,524	July 13, 1875	388	115	8	69
Stone, Artificial	P. B. Doty	168,559	Oct. 11, 1875	241		8	606
Stone, Artificial	H. Lemon, J. A. Cameron, and H. Hainer	163,386	May 18, 1875	639		7	854
Stone, Artificial	J. C. Tucker	170,132	Nov. 16, 1875	798		8	854
Stone channeling and sawing machine	N. F. English and C. M. Willard	160,888	Mar. 16, 1875	597	194	7	448
Stone composition, Artificial	W. H. Whittmore	169,218	Oct. 26, 1875	876		8	712
Stone, Compound for artificial	T. E. Daniels	166,265	Aug. 3, 1875	74		8	209
Stone, Compound for artificial	H. Lemon and J. C. Metcalfe, jr.	168,651	Oct. 11, 1875	332		8	619
Stone-crusher	J. Comley	166,504	Aug. 10, 1875	318	96	8	252
Stone-crushing apparatus	S. H. Johnson	160,682	Mar. 9, 1875	389	132	7	414
Stone-crushing machine	C. H. Scheermesser	166,897	Aug. 17, 1875	692	214	8	314
Stone-cutter's gage	E. R. Batchelder	163,910	June 1, 1875	60	20	7	939
Stone-cutting chisel	C. C. Simpson	165,692	July 20, 1875	557	170	8	109
Stone-cutting machine	L. Dutertre	158,691	Jan. 12, 1875	316	107	7	68
Stone-dressing hammer	W. W. Castle	158,467	Jan. 5, 1875	104	35	7	23
Stone-dressing machine	J. J. Squire	161,835	Apr. 6, 1875	216	72, 73	7	600
Stone-dressing machine	W. H. Thompson	167,365	Aug. 31, 1875	1155	363	8	395
Stone-dressing wheel	P. B. Laird	159,031	Jan. 26, 1875	680	223	7	139
Stone-extracting tool	N. R. Chandle	163,636	May 25, 1875	884	279	7	893
Stone-gathering machine	M. Miller	171,579	Dec. 28, 1875	910	298	8	1096
Stone impervious to moisture, Process of rendering artificial.	W. McMurtie and B. Chambers, jr.	163,676	May 5, 1875	912		7	897
Stone, Machine for manufacturing blocks of artificial	T. Cook	161,866	Apr. 13, 1875	252	84	7	616
Stone, Manufacture of artificial	L. W. Osborn, E. D. Merriam, and P. B. Doty	164,758	June 22, 1875	873		7	1076
Stone-polishing machine	P. H. Walsh	167,591	Sept. 7, 1875	188	58, 59	8	432
Stone-saw	S. G. Morrison	16,879	June 1, 1875	38	12	7	935

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Stone-sawing machine.....	S. Thompson.....	167,806	Sept. 14, 1875	395	127	8	469
Stone-turning lathe.....	S. L. and E. A. Beebe.....	171,259	Dec. 21, 1875	603	197	8	1045
Stones, stumps, roots, &c., Machine for digging.....	C. M. Lufkin.....	161,047	Mar. 23, 1875	744	245	7	477
Stoneware jars, Protector for.....	D. S. Chesebro.....	162,459	Apr. 27, 1875	834	269	7	705
Stool.....	R. W. Myers.....	166,402	Aug. 3, 1875	204	61	8	227
Stool.....	G. C. Winchester.....	165,434	July 13, 1875	304	89	8	57
Stool and cane, Combined camp.....	F. A. Bryan.....	159,898	Feb. 16, 1875	637	211	7	284
Stool and seat.....	H. Beagle.....	161,196	Mar. 23, 1875	880	289	7	495
Stool, Camp.....	N. R. Allen.....	163,623	May 25, 1875	873	275	7	892
Stool, Camp.....	A. W. Hart.....	159,757	Feb. 16, 1875	504	169	7	267
Stool, &c., Folding.....	U. H. W. Schenck.....	161,063	Mar. 23, 1875	757	249	7	479
Stool, Folding camp.....	E. Ducker.....	159,654	Feb. 9, 1875	389	130	7	246
Stool, Piano.....	C. A. A. Deering and J. Leck.....	161,394	Mar. 30, 1875	1093	355	7	530
Stool, Piano.....	T. Miller.....	162,569	Apr. 27, 1875	928	298	7	717
Stool, Piano.....	S. S. Schindler.....	162,105	Apr. 13, 1875	457	152	7	643
Stool, Piano.....	E. I. Leavey.....	168,110	Sept. 28, 1875	704	222	8	529
Stool, Rotary.....	A. Rice.....	164,483	June 15, 1875	620	201	7	1033
Stool, Store.....	A. L. Bobo.....	158,355	Jan. 5, 1875	5	2	7	9
Stool-support.....	C. J. Woodward.....	159,243	Jan. 26, 1875	868	283	7	166
Stoops, Winter-rail for.....	R. Lo Forte.....	159,830	Feb. 16, 1875	570	190	7	275
Stopper:							
See Bottle-stopper. Hose-leak stopper.							
Cable-stopper. Ladle-stopper.							
Flue-stopper.							
Stopping mechanism for railway-heads.....	R. W. Hunton.....	163,593	May 25, 1875	845	267	7	888
Stopping mechanisms, Drop-wire for.....	L. Dimock.....	159,396	Feb. 2, 1875	138	47	7	204
Store-counter.....	W. Volkland.....	166,043	July 27, 1875	904	279	8	169
Stove.....	R. S. Bostwick.....	168,868	Oct. 19, 1875	532	174	8	656
Stove.....	W. Burrows.....	165,208	July 6, 1875	65	19	8	17
Stove.....	B. Claffin.....	168,452	Oct. 5, 1875	117	40	8	582
Stove.....	L. R. Comstock.....	159,797	Feb. 16, 1875	544	181	7	272
Stove.....	W. Doyle.....	160,755	Mar. 16, 1875	480	157	7	432
Stove.....	J. Duffy.....	168,002	Sept. 21, 1875	570	184	8	504
Stove.....	J. W. Elliott.....	166,921	Aug. 24, 1875	727	225	8	328
Stove.....	E. W. Gram and J. Nelson.....	159,919	Feb. 16, 1875	653	216	7	287
Stove.....	G. W. Herrick.....	163,775	May 25, 1875	996	316	7	908
Stove.....	C. Hyde.....	164,303	June 8, 1875	440	146	7	1001
Stove.....	S. H. La Rue.....	170,746	Dec. 7, 1875	84	27	8	962
Stove.....	G. C. Milgate.....	159,435	Feb. 2, 1875	155	50, 60	7	209
Stove.....	J. A. Moore.....	167,852	Sept. 21, 1875	451	143	8	486
Stove.....	J. L. Roberts.....	165,508	July 13, 1875	376	111	8	67
Stove.....	I. A. Sheppard.....	169,050	Oct. 19, 1875	703	232	8	679
Stove.....	J. Spear.....	163,419	May 18, 1875	665	213	7	857
Stove.....	J. Spear.....	164,046	June 1, 1875	179	64	7	955
Stove.....	H. E. Spurrier.....	169,205	Oct. 26, 1875	859	280	8	709
Stove.....	D. L. Stiles.....	159,465	Feb. 2, 1875	211	69	7	214
Stove.....	C. Warner.....	169,390	Nov. 2, 1875	66	20	8	743
Stove.....	H. J. Wintherlich.....	164,789	June 22, 1875	900	293	7	1080
Stove.....	S. Wood.....	171,640	Dec. 28, 1875	984	318	8	1105
Stove air-chamber.....	E. Hawks.....	160,519	Mar. 9, 1875	251	86	7	393
Stove and furnace.....	O. Klotz.....	169,273	Oct. 26, 1875	925	300	8	718
Stove and furnace.....	E. Smith.....	169,052	Oct. 19, 1875	704	233	8	680
Stove and heat-radiator, Combined.....	N. H. Lenharr.....	165,597	July 13, 1875	455	138	8	80
Stove and range, Cooking.....	W. B. Treadwell.....	161,180	Mar. 23, 1875	869	284 } 285 } 249 } 250 }	7	493
Stove and steam-heater, Cooking.....	T. Penton.....	162,413	Apr. 20, 1875	769	249 } 250 }	7	689
Stove attachment.....	H. S. Cook.....	164,269	June 8, 1875	409	137	7	996
Stove attachment, Cook.....	E. B. Patten.....	159,350	Feb. 2, 1875	100	35	7	198
Stove attachment, Cook.....	E. B. Patten.....	159,351	Feb. 2, 1875	101	35	7	198
Stove attachment, Cooking.....	F. Enos.....	163,858	June 1, 1875	21	7	7	933
Stove, Barrel.....	J. F. Scholes.....	160,961	Mar. 16, 1875	662	216	7	457
Stove, Base-burning.....	L. F. Betts.....	168,962	Oct. 19, 1875	618	205	8	668
Stove, Base-burning.....	M. C. Hawley and W. Lennox.....	164,555	June 15, 1875	680	221	7	1041
Stove, Base-burning.....	S. H. La Rue.....	158,847	Jan. 19, 1875	477	160	7	106
Stove-bracket, Wire.....	J. H. Randall and D. F. Newton.....	169,118	Oct. 26, 1875	791	256	8	699
Stove, Camp.....	H. L. Dunclee.....	164,725	June 22, 1875	846	275	7	1072
Stove, Coal.....	L. B. Sprout.....	165,694	July 20, 1875	559	171	8	109
Stove, Coal-oil.....	J. L. Sharp.....	164,775	June 22, 1875	8-5	289	7	1078
Stove, Cooking.....	J. S. Adams.....	170,696	Dec. 7, 1875	40	12	8	956
Stove, Cooking.....	E. H. Bates.....	162,883	May 4, 1875	132	44	7	764
Stove, Cooking.....	E. O. Brinckerhoff.....	159,788	Feb. 16, 1875	532	177 } 178 }	7	271
Stove, Cooking.....	G. Comstock.....	168,084	Sept. 28, 1875	679	215	8	526
Stove, Cooking.....	J. B. Crowley and A. E. Cham-berlain.....	166,594	Aug. 10, 1875	392	121	8	263
Stove, Cooking.....	F. H. Hamilton.....	170,849	Dec. 7, 1875	173	59	8	974
Stove, Cooking.....	M. D. Seward.....	159,225	Jan. 26, 1875	852	278	7	163
Stove, Cooking.....	J. D. Smedley.....	161,908	Apr. 13, 1875	291	98	7	622
Stove, Cooking.....	R. Thomas.....	160,798	Mar. 16, 1875	525	169	7	438
Stove, Cooking.....	R. Thomas.....	170,206	Nov. 23, 1875	891	278	8	874
Stove, Cooking.....	I. Van Bunschoten.....	171,070	Dec. 14, 1875	392	130	8	1010
Stove, Cooking.....	J. S. Van Buren.....	160,557	Mar. 9, 1875	283	96	7	398
Stove, Cooking.....	J. H. Wentworth.....	159,727	Feb. 9, 1875	456	152	7	256
Stove-cover lifter.....	J. Edgar and A. Bardell.....	166,084	July 27, 1875	945	291	8	175
Stove cross-piece, Cooking.....	W. Stout.....	162,113	Apr. 13, 1875	469	155	7	644
Stove-door handle.....	A. S. Shoutz.....	162,958	May 4, 1875	210	67	7	774
Stove-door hinge.....	W. T. Howard.....	162,925	May 4, 1875	169	56	7	769
Stove-door knob.....	M. W. Gardner.....	168,734	Oct. 11, 1875	403	131	8	629
Stove-door knob.....	P. E. Washburne.....	168,858	Oct. 19, 1875	523	171	8	654
Stove-door, Self-closing.....	N. A. Boynton.....	165,297	July 6, 1875	139	42	8	28
Stove-door turn-button.....	W. Morand.....	167,8-3	Sept. 21, 1875	452	143	8	486
Stove fire-back.....	G. W. Herrick.....	160,906	Mar. 16, 1875	611	199	7	450
Stove, Fire-place.....	H. P. Ohm.....	163,235	May 11, 1875	479	155 } 156 }	7	817

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Stove fire-pot.....	J. Spear.....	163,418	May 18, 1875	664	212	7	857
Stove, Gas.....	J. Q. Birkey.....	167,058	Aug. 24, 1875	860	267	8	346
Stove, Gas.....	C. Burnham and J. G. Taite.....	162,150	Apr. 20, 1875	519	171	7	658
Stove, Gas.....	H. I. Hawley.....	171,617	Dec. 28, 1875	939	311	8	1102
Stove, Gas.....	E. L. Vergurson.....	161,916	Apr. 13, 1875	301	100	7	623
Stove, Gas.....	J. J. West.....	163,344	May 18, 1875	603	193	7	849
Stove, Heating.....	J. D. Avil.....	163,441	May 18, 1875	683	218	7	860
Stove, Heating.....	J. K. Babcock.....	164,899	June 29, 1875	1026	331	7	1103
Stove, Heating.....	R. S. Barr.....	170,501	Nov. 30, 1875	1176	372	8	952
Stove, Heating.....	A. Bottes.....	165,295	July 6, 1875	137	41	8	27
Stove, Heating.....	G. H. Castle.....	162,624	Apr. 27, 1875	973	313	7	723
Stove, Heating.....	M. C. C. Church.....	167,497	Sept. 7, 1875	100	32	8	431
Stove, Heating.....	G. Comstock.....	158,572	Jan. 12, 1875	210	71, 72	7	54
Stove, Heating.....	M. A. Cushing.....	160,398	Mar. 2, 1875	123	45	7	366
Stove, Heating.....	H. G. Giles.....	165,414	July 13, 1875	283	84	8	54
Stove, Heating.....	P. J. Hardy.....	163,987	June 1, 1875	124	41, 42	7	948
Stove, Heating.....	P. J. Hardy.....	163,988	June 1, 1875	125	42	7	948
Stove, Heating.....	W. W. Hatch and C. W. Fuller.....	161,611	Apr. 6, 1875	20	8	7	571
Stove, Heating.....	G. W. Herrick.....	159,670	Feb. 9, 1875	407	135	7	248
Stove, Heating.....	Z. Hunt.....	169,172	Oct. 26, 1875	836	272	8	706
Stove, Heating.....	S. H. Kreider.....	165,335	July 6, 1875	174	53	8	33
Stove, Heating.....	C. Noble.....	160,222	Feb. 23, 1875	940	309	7	334
Stove, Heating.....	M. Pierce.....	164,592	June 15, 1875	711	242	7	1046
Stove, Heating.....	L. M. E. Raveand and V. Marty.....	168,922	Oct. 19, 1875	586	193	8	663
Stove, Heating.....	S. Raymond and J. Campbell.....	167,566	Sept. 7, 1875	163	52	8	429
Stove, Heating.....	M. Roberts.....	162,289	Sept. 28, 1875	866	277	8	551
Stove, Heating.....	J. H. Robinson.....	159,968	Feb. 16, 1875	698	232	7	293
Stove, Heating.....	W. T. Ross.....	169,208	Oct. 26, 1875	949	308	8	721
Stove, Heating.....	H. J. Ruttan.....	165,259	July 6, 1875	107	32	8	23
Stove, Heating.....	E. Smith.....	168,534	Oct. 5, 1875	196	64, 65	8	592
Stove, Heating.....	L. B. Stuart.....	163,951	June 1, 1875	94	32	7	944
Stove, Heating.....	W. B. Treadwell.....	169,601	Nov. 2, 1875	361	84	8	769
Stove, Heating.....	J. Van.....	169,317	Oct. 26, 1875	971	315	8	724
Stove, Heating.....	T. White.....	167,594	Sept. 7, 1875	191	60	8	433
Stove, Heating.....	W. Wickkiser.....	166,049	July 27, 1875	909	281	8	170
Stove, Heating and ventilating.....	C. S. Bell.....	169,765	Nov. 9, 1875	452	142	8	801
Stove implement.....	L. S. Hoyt.....	163,659	May 25, 1875	901	286	7	896
Stove implement.....	I. A. Perry.....	163,243	May 11, 1875	487	158	7	818
Stove, Lamp.....	M. F. Rathbun.....	166,892	Aug. 17, 1875	686	212	8	313
Stove-leg.....	I. A. Lovejoy.....	167,915	Sept. 21, 1875	502	159	8	493
Stove-leg.....	W. Tanner.....	168,589	Oct. 11, 1875	274	89	8	610
Stove-leg fastening.....	A. J. Redway.....	163,253	May 11, 1875	497	161	7	819
Stove-lid.....	W. Weaver.....	158,551	Jan. 5, 1875	173	59	7	33
Stove-lid lifter.....	P. R. Ball.....	160,297	Mar. 2, 1875	36	14	7	354
Stove-lid lifter.....	G. Sprague.....	159,228	Jan. 26, 1875	856	279	7	164
Stove, Magazine.....	W. W. Baldwin.....	163,442	May 18, 1875	684	218	7	860
Stove, Magazine.....	R. Blum.....	162,344	Apr. 20, 1875	697	227	7	680
Stove, Magazine.....	J. A. Buckwalter.....	167,218	Aug. 31, 1875	1029	319	8	377
Stove, Magazine.....	J. A. Buckwalter.....	169,410	Nov. 2, 1875	83	26	8	746
Stove, Magazine.....	E. Bussey.....	161,479	Mar. 30, 1875	1172	377	7	540
Stove, Magazine.....	W. Doyle.....	163,583	May 25, 1875	834	264	7	887
Stove, Magazine.....	J. E. Tallmadge.....	159,652	Jan. 26, 1875	696	229	7	141
Stove, Magazine cooking.....	T. N. Caulkins.....	164,141	June 8, 1875	287	98	7	981
Stove, Magazine cooking.....	J. S. Perry, A. Dickey, and R. Z. Liddle.....	168,047	Sept. 21, 1875	621	199	8	511
Stove, Magazine cooking.....	W. B. Treadwell.....	158,653	Jan. 12, 1875	285	96	7	64
Stove, Magazine fire-place.....	J. J. McCormick.....	164,015	June 1, 1875	147	53	7	951
Stove, Magazine fire-place.....	S. B. Sexton.....	162,107	Apr. 13, 1875	462	153	7	643
Stove, Magazine fire-place.....	S. B. Sexton.....	162,108	Apr. 13, 1875	464	154	7	643
Stove, Magazine heating.....	M. A. Cushing.....	166,072	July 27, 1875	931	288	8	173
Stove, Magazine heating.....	G. H. Timmerman.....	163,824	May 25, 1875	1038	329	7	914
Stove, Oil.....	H. Allen.....	166,740	Aug. 17, 1875	549	168	8	293
Stove, Oil.....	A. Q. Allis.....	166,738	Aug. 17, 1875	547	168	8	293
Stove, Oil.....	F. Gates.....	167,236	Aug. 31, 1875	1044	324	8	379
Stove, Oil.....	F. Gates.....	167,237	Aug. 31, 1875	1045	324	8	379
Stove-oven door.....	J. C. Barnes.....	165,913	July 27, 1875	780	239	8	153
Stove, Parlor cook.....	W. Doyle.....	165,919	July 27, 1875	785	241 } 242	8	153
Stove, Parlor cook.....	W. Doyle.....	165,920	July 27, 1875	787	242	8	154
Stove, Parlor cook.....	A. White.....	165,393	July 6, 1875	240	72	8	41
Stove-pipe and drum.....	J. Kelslow.....	164,306	June 8, 1875	443	146	7	1001
Stove-pipe collar and thimble.....	G. F. Brinkerhoff.....	159,150	Jan. 26, 1875	781	256	7	154
Stove-pipe coupling.....	R. R. Ball.....	160,296	Mar. 2, 1875	35	13	7	354
Stove-pipe elbow.....	J. F. Piehl.....	164,872	June 22, 1875	983	317	7	1090
Stove-pipe elbows, Machine for making.....	J. F. Piehl.....	166,029	July 27, 1875	891	275	8	167
Stove-pipe joint.....	D. H. Klotz.....	171,389	Dec. 21, 1875	719	237	8	1061
Stove-pipe joint.....	G. D. Umland.....	165,893	July 20, 1875	751	230	8	136
Stove-pipe shelf.....	M. Bennet.....	163,445	May 18, 1875	686	219	7	861
Stove-pipe shelf.....	J. Christy.....	169,147	Oct. 26, 1875	813	264	8	702
Stove-pipe shelf.....	J. Emmert.....	159,657	Feb. 9, 1875	392	130	7	247
Stove-pipe shelf.....	R. D. Farr.....	162,365	Apr. 20, 1875	719	234	7	682
Stove-pipe shelf.....	M. H. Harman.....	161,878	Apr. 13, 1875	267	89	7	618
Stove-pipe shelf.....	G. Hilbirt.....	171,283	Dec. 21, 1875	625	204	8	1048
Stove-pipe shelf.....	G. W. Langdon.....	171,146	Dec. 14, 1875	468	153	8	1020
Stove-pipe shelf.....	A. J. Mills.....	171,153	Dec. 14, 1875	477	156	8	1021
Stove-pipe shelf.....	C. E. Woodruff.....	162,595	Apr. 27, 1875	950	305	7	720
Stove-pipe thimble.....	J. S. Elliott.....	159,250	Feb. 2, 1875	8	3	7	186
Stove-pipe thimble.....	C. M. Laughlin and J. R. Hughes.....	163,499	May 18, 1875	744	236	7	867
Stove-pipes, Lid-holding attachment to.....	W. S. Denman and M. E. Barfoot.....	163,852	June 1, 1875	16	5	7	932
Stove-pipes, Manufacture of.....	L. Bancroft.....	169,761	Nov. 9, 1875	448	141	8	801
Stove-platform.....	W. Evans.....	159,659	Feb. 9, 1875	395	132	7	247
Stove-platform.....	S. L. Warren.....	168,816	Oct. 11, 1875	475	155	8	639
Stove, Pocket gas.....	T. W. Houchin.....	166,008	July 27, 1875	873	269	8	164
Stove, Pocket lamp.....	T. W. Houchin.....	162,924	May 4, 1875	168	55	7	769
Stove-polish.....	C. E. Teets.....	171,490	Dec. 28, 1875	825		8	1084

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Stove-polish	S. J. Wilson	159,056	Jan. 26, 1875	700		7	142
Stove-polish	J. and A. P. Yates	158,878	Jan. 19, 1875	504		7	109
Stove-polish, Device for holding and mixing	J. C. Wightman	158,600	Jan. 12, 1875	292	98	7	65
Stove-polisher	J. M. Watson	165,898	July 20, 1875	755	.....	8	137
Stove, Portable	S. Thompson	164,341	June 8, 1875	474	157	7	1005
Stove, Regenerative hot-blast	C. Cochrane and E. A. Cowper ..	167,644	Sept. 14, 1875	247	77	8	448
Stove-register	L. A. White and G. W. Lewin ..	170,792	Dec. 7, 1875	126	42	8	967
Stove, Reservoir	G. Hayner	163,194	May 11, 1875	445	{ 143	7	812
Stove-reservoir	C. Truesdale	164,613	June 15, 1875	729	238	7	1048
Stove, Reservoir cooking	E. Card	169,086	Oct. 26, 1875	756	{ 246	8	694
Stove, Reservoir cooking	A. C. Corse and M. G. Fagan	163,155	May 11, 1875	407	{ 130	7	807
Stove, Reservoir cooking	A. C. Corse and M. G. Fagan	163,156	May 11, 1875	408	{ 131	7	808
Stove, Reservoir cooking	A. C. Corse and M. G. Fagan	163,157	May 11, 1875	409	{ 132	7	808
Stove, Reservoir cooking	A. C. Corse and M. G. Fagan	163,158	May 11, 1875	410	{ 133	7	808
Stove, Reservoir cooking	J. H. Goodfellow	159,259	Feb. 2, 1875	17	6	7	187
Stove, Reservoir cooking	R. M. Hermance	164,735	June 22, 1875	854	277	7	1074
Stove, Reservoir cooking	G. N. Palmer	163,517	May 18, 1875	763	242	7	870
Stove, Reservoir cooking	D. E. Paris	163,883	June 1, 1875	40	13, 14	7	936
Stove, Reservoir cooking	G. H. Phillips	162,857	May 4, 1875	111	36	7	761
Stove, Reservoir cooking	G. G. Wolfe	164,629	June 15, 1875	742	{ 212	7	1050
Stove, Summer	E. Hawks	161,612	Apr. 6, 1875	21	8	7	571
Stove top, cover, griddle, &c	J. W. Lamb	164,190	June 8, 1875	331	113	7	987
Stove-ventilating attachment	C. Carter	164,259	June 8, 1875	397	134	7	995
Stove ventilator, Cooking	A. A. Peterson	164,206	June 8, 1875	345	118	7	989
Stove ventilator, Cooking	A. Leigh	162,834	May 4, 1875	89	29	7	759
Stoves, Ash-sifter for	J. H. Goodfellow	159,406	Feb. 2, 1875	150	50	7	205
Stoves, Ash-sifter for	G. G. Wolfe	159,735	Feb. 9, 1875	466	{ 155	7	257
Stoves, Ash-sifting attachment for	A. C. Corse	170,821	Dec. 7, 1875	150	50	8	970
Stoves, Attachment for cooking	T. R. Timby	168,809	Oct. 11, 1875	467	152	8	638
Stoves, Detachable ash-pan for	A. T. Bleyley	162,267	Apr. 20, 1875	629	205	7	672
Stoves, Floor-shield for	J. A. Hunter	161,041	Mar. 23, 1875	740	243	7	477
Stoves, Fuel cut-off for magazine	D. Smith	167,201	Aug. 31, 1875	103	355	8	375
Stoves, Magazine for coal	J. P. Richardson	166,144	July 27, 1875	1006	310	8	184
Stoves, Vapor-burner for cooking	F. Rosengren	160,282	Mar. 2, 1875	23	9	7	352
Straightening-machine	J. S. Atkinson	170,461	Nov. 30, 1875	1134	358	8	916
Strainer for wash-basins and bath-tubs	J. D. Smith	162,705	Apr. 27, 1875	1058	337	7	733
Strainer, Milk	J. W. Bray	163,632	May 25, 1875	881	277	7	893
Strainer, Milk	F. L. Oliver	165,858	July 20, 1875	721	219	8	131
Strainer, Pot	P. Michels	165,354	July 6, 1875	194	58	8	35
Strainer, Pulp	S. E. Crocker	170,471	Nov. 30, 1875	1145	361	8	918
Strainer, Starch	W. Graham	158,486	Jan. 5, 1875	121	41	7	26
Strap:							
See Boot and shoe strap. Shawl-strap.							
Halter-strap. Suspender-button strap.							
Leather strap. Trunk-strap.							
Package-strap. Wagon-box strap.							
Razor-strap.							
Straw-board, Manufacture of lined	B. F. Field	166,087	July 27, 1875	948	292	8	175
Straw-burning furnace	J. R. King	165,169	July 6, 1875	25	7, 8	8	12
Straw-cutter	B. Belcher	163,724	May 25, 1875	956	303	7	903
Straw-cutter	W. R. Bowman	166,585	Aug. 10, 1875	383	118	8	261
Straw-cutter	E. W. Fawcett	162,637	Apr. 27, 1875	983	316	7	724
Straw-cutter	W. Gale	160,417	Mar. 2, 1875	143	50	7	369
Straw-cutter	J. Grimm	171,562	Dec. 28, 1875	895	292	8	1094
Straw-cutter	W. H. Hall	167,334	Aug. 31, 1875	1127	354	8	391
Straw-cutter	T. Hancock	163,068	May 11, 1875	328	{ 106	7	797
Straw-cutter	L. Schellinger	166,307	Aug. 3, 1875	112	35	8	215
Straw-cutter	C. F. and M. Stewart	165,514	July 13, 1875	380	113	8	68
Straw-cutter	A. Vahldieck	165,389	July 6, 1875	233	71	8	40
Straw-stacker	G. Sanders	159,458	Feb. 2, 1875	199	66	7	212
Straw-twisting machine	S. Kuh	160,777	Mar. 16, 1875	505	164	7	435
Street-mains, Laying	A. O'Neill	163,942	June 1, 1875	87	30	7	943
Street-sprinkler	J. N. Buchanan	159,498	Feb. 9, 1875	255	83	7	227
Street-sprinkler	E. H. Franz	159,253	Feb. 2, 1875	11	4	7	186
Street-sprinkler	G. A. Jeremiah	159,182	Jan. 26, 1875	812	266	7	158
Street-sprinkler	W. Westerfield	159,874	Feb. 16, 1875	612	203	7	281
Street-sweeper	O. W. Kellogg	163,784	May 25, 1875	1005	319	7	909
Street-sweeper	O. W. Kellogg	168,569	Oct. 11, 1875	253	83	8	607
Street-sweeping machine	W. M. Blume	162,345	Apr. 30, 1875	698	227	7	680
Street-sweeping machine	J. Edson	159,025	Jan. 26, 1875	674	220	7	138
Stud and button fastening	B. Clayton	161,668	Apr. 6, 1875	70	25	7	579
Stud-fastening	J. C. W. Jefferys	164,177	June 8, 1875	321	109	7	985
Stud-fastening	S. Zacharias	160,634	Mar. 9, 1875	348	118	7	498
Stud, Shirt	E. W. Averell	160,865	Mar. 16, 1875	578	188	7	445
Stuffing-box	A. G. Myers	163,796	May 25, 1875	1015	322	7	911
Stuffing-box and valve mechanism for hydrants	J. P. Hyde	166,611	Aug. 10, 1875	408	125	8	265
Stuffing-box, Piston-rod	J. M. Searle	168,189	Sept. 28, 1875	779	247	8	539
Stuffing-boxes, Metallic packing for	P. Sage	168,344	Oct. 5, 1875	23	9	8	568
Stump-elevator	J. H. Barnes	160,808	Mar. 16, 1875	534	173	7	439
Stump-elevator	J. M. Batchelor	160,865	Mar. 16, 1875	578	188	7	445
Stump-extractor	W. H. Fulton	161,500	Mar. 30, 1875	1200	385	7	543
Stump-extractor	J. A. Hart and W. A. Grove	171,379	Dec. 21, 1875	707	233	8	1060
Stump-extractor	W. F. Kengle	169,909	Nov. 16, 1875	599	186	8	828
Stump-extractor	A. McKenney	162,936	May 4, 1875	184	61	7	771
Stump-extractor	A. McKenney	162,937	May 4, 1875	186	61	7	771
Stump-puller	C. C. Hogue	159,760	Feb. 16, 1875	506	170	7	268

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Stump-puller	W. O. Johnson	166,384	Aug. 3, 1875	186	56	8	225
Submarine-rock chisel	A. J. Whitney	170,425	Nov. 23, 1875	1087	342	8	901
Sucker-rod socket	P. E. Jenks	167,903	Sept. 21, 1875	494	156	8	492
Sugar, Apparatus for molding and liquoring	F. O. Matthiessen	163,092	May 11, 1875	348	113	7	800
Sugar, Apparatus for refining	F. O. Matthiessen	163,093	May 11, 1875	349	114	7	800
Sugar, Apparatus for redning	F. O. Matthiessen	163,094	May 11, 1875	350	114	7	800
Sugar, Apparatus for the manufacture of hard	J. O. Donner	160,656	Mar. 9, 1875	369	124	7	411
Sugar-cane-cutting machine	J. Roberts	160,121	Feb. 23, 1875	852	281	7	322
Sugar cooling and draining apparatus	J. G. Angell	169,223	Oct. 26, 1875	879	286	8	712
Sugar cooling and draining apparatus	J. H. Hynson	166,778	Aug. 17, 1875	579	178	8	298
Sugar-cutting machine	J. O. Donner	160,657	Mar. 9, 1875	370	125	7	411
Sugar-cutting machine	G. P. Ockershausen	160,945	Mar. 16, 1875	648	211	7	455
Sugar-cutting machine	F. Rochow	164,485	June 15, 1875	621	201	7	1033
Sugar-cutting machine	F. Rochow	164,486	June 15, 1875	623	201	7	1033
Sugar-cutting machine	F. Rochow	164,767	June 22, 1875	879	287	7	1077
Sugar drier, Refined	A. F. W. Partz	159,769	Feb. 16, 1875	514	172	7	269
Sugar into blocks, Machine for pressing	J. W. Jarboe	166,383	Aug. 3, 1875	185	55	8	225
Sugar machine, Cube	G. D. Jones	169,004	Oct. 19, 1875	656	216	8	673
Sugar, Manufacture of	J. S. Oliver	159,525	Feb. 9, 1875	288	93	7	231
Sugar, Manufacture of grape	E. E. Pearse	159,837	Feb. 16, 1875	577	192	7	276
Sugar, Manufacture of hard	E. Langen	163,667	May 25, 1875	907	.....	7	896
Sugar-mold	M. L. Senderling	166,156	July 27, 1875	1011	311	8	184
Sugar, Process of manufacturing hard	F. O. Matthiessen	161,424	Mar. 30, 1875	1122	.....	7	533
Sugar, Process of refining	F. O. Matthiessen	162,243	Apr. 20, 1875	607	.....	7	669
Sugar, Process of refining	F. O. Matthiessen	162,244	Apr. 20, 1875	607	.....	7	669
Sugar, Process of refining	F. O. Matthiessen	162,245	Apr. 20, 1875	608	.....	7	669
Sugar, Process of refining	F. O. Matthiessen	169,823	Nov. 9, 1875	508	.....	8	808
Sugar, Refining	F. O. Matthiessen	160,928	Mar. 16, 1875	632	.....	7	453
Sugar, Refining	F. O. Matthiessen	162,242	Apr. 20, 1875	606	.....	7	669
Sugar-sawing machine	G. P. Ockershausen	166,403	Aug. 3, 1875	204	61	8	227
Sugar skimmer and cooler	J. L. Morgan	163,392	May 18, 1875	644	206	7	855
Sugar-splitting machine, Hard	G. Dinkel and W. R. Elmenhorst	168,728	Oct. 11, 1875	394	129	8	628
Sulky	P. Soule	160,064	Feb. 23, 1875	808	265	7	315
Sulphur, Method of and apparatus for separating free. Supporter:	S. H. Johnson	166,279	Aug. 3, 1875	84	26, 27	8	211
See Book-supporter. Shirt-bosom supporter.							
Book and music sup- Skirt-supporter.							
porter. Spooling-machine-bob-							
Cattle-supporter. bin supporter.							
Dress-supporter. Spring-seat supporter.							
Fence-post supporter. Stocking or skirt sup-							
Lamp-supporter. porter.							
Lamp-shade supporter. Stool-supporter.							
Neck-tie supporter. Tongue-supporter.							
Rain-spout supporter. Umbrella-supporter.							
Sash-supporter. Uterine supporter.							
Shaft-supporter.							
Suppository-mold	A. S. Wetmore	170,975	Dec. 14, 1875	308	102	8	999
Surcingle	H. M. Witter	160,560	Mar. 9, 1875	286	97	7	399
Surcingle	H. M. Witter	160,987	Mar. 16, 1875	684	225	7	461
Surgical instrument	H. L. Stillman	160,037	Feb. 23, 1875	782	258	7	311
Surveyor's target	T. Davies	159,021	Jan. 26, 1875	671	219	7	137
Suspenders	R. H. Eddy	166,974	Aug. 24, 1875	778	240	8	335
Suspenders	S. K. Ellis	169,245	Oct. 26, 1875	898	292	8	714
Suspenders	W. Stokes	170,027	Nov. 16, 1875	696	219	8	841
Suspenders	A. R. Warren	167,961	Sept. 21, 1875	535	172	8	499
Suspenders belt, or garter fastening	A. C. Smith	161,071	Mar. 23, 1875	767	253	7	480
Suspenders button-strap	A. Shenfield	169,755	Nov. 9, 1875	537	168	8	811
Suspenders, Cast-off for	S. W. Fisk	161,111	Mar. 23, 1875	810	265	7	485
Suspending ring or fastener	G. W. McGill	162,185	Apr. 20, 1875	552	181	7	662
Swaging-machines, Blank-feeding attachment for	R. Thompson	167,630	Sept. 14, 1875	235	73	8	446
Swimmer's glove-paddle	E. G. Kinsley	170,957	Dec. 14, 1875	286	96	8	996
Swing	C. H. Cain	160,390	Mar. 2, 1875	116	42, 43	7	365
Swing	S. McClevey	163,599	May 25, 1875	852	269	7	889
Swing	W. P. Rogers	170,900	Dec. 7, 1875	215	74	8	979
Swing, Child's	G. A. Tanjoy	164,726	June 22, 1875	847	275	7	1073
Swing, Rotary	I. N. Forrester	169,797	Nov. 9, 1875	484	152	8	805
Swinging and tilting gate	A. Brinkerhoff	170,517	Nov. 30, 1875	1197	374	8	924
Swinging-gate	J. A. Moore	171,158	Dec. 14, 1875	479	157	8	1021
Swinging-gate	F. Raymond	160,842	Mar. 16, 1875	560	181	7	443
Switch:							
See Railway-switch. Safety-switch.							
Switch-locking device	J. M. Toucey, W. H. Smith, and W. Buchanan	160,364	Mar. 2, 1875	94	35	7	362
Switch-signal	J. A. T. Bird	158,776	Jan. 19, 1875	411	138	7	97
Switch-signal	J. Imray	169,811	Nov. 9, 1875	494	155	8	806
Switch-signal, Railway	W. W. Colley	165,795	July 20, 1875	652	200	8	123
Switch-signals, Apparatus for operating and locking	S. H. Finch	161,940	Apr. 13, 1875	321	108	7	625
Switch-signaling apparatus	J. M. Toucey, W. H. Smith, and W. Buchanan	164,612	June 15, 1875	728	238	7	1048
Syringe	W. P. Clotworthy	169,238	Oct. 26, 1875	891	290	8	714
Syringe	W. Molesworth	17,182	Nov. 23, 1875	870	272	8	871
Syringe, Combination	W. P. Clotworthy	166,967	Aug. 24, 1875	773	238	8	334
Syringe, Hypodermic	J. Leiter	159,192	Jan. 26, 1875	821	270	7	159
Syringe, Vaginal	J. S. Wilkin	163,038	May 11, 1875	302	97	7	794
Syringes, &c., Shield attachment for bulb	E. T. Starr	169,384	Nov. 2, 1875	62	18	8	743
T.							
Table:							
See Advertising-table. Ironing-table.							
Billiard-table. Ironing and kitchen							
Convertible table. table.							
Extension-table. Kitchen-table.							
Folding-table. Knock-down table.							
Game-table. Lap-table.							

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Table—Continued.							
See Office-table. Sewing-machine table.							
Paper-hanger's table. Steaming table.							
Parlor-table. Toy-table.							
Pastry-table. Turn-table.							
Refrigerating-table. Work-table.							
Table	L. Postawka	162,304	Apr. 20, 1875	659	215	7	676
Table and desk, Combined	T. W. Moore	163,939	June 1, 1875	84	28	7	942
Table and slicer, Combined	T. Witmer	161,920	Apr. 13, 1875	305	101	7	623
Table-corner	R. Ewald	170,722	Dec. 7, 1875	62	19	8	959
Table-implement	O. W. Taft	161,573	Mar. 30, 1875	1267	407	7	552
Table-leaf lifter and supporter	T. E. Smith	165,265	July 6, 1875	112	33	8	24
Table-leaf support	D. Jackson	171,570	Dec. 28, 1875	902	295	8	1095
Table-leaf supporter	J. Wanner	169,388	Nov. 2, 1875	64	19	8	743
Table-leg, Adjustable	J. H. Balsley	169,613	Nov. 9, 1875	290	93	8	781
Table-legs, Device for fastening	W. K. Sawyer	171,322	Dec. 21, 1875	655	215	8	1052
Table-ware, Covered	H. C. Wilcox	158,661	Jan. 12, 1875	292	98	7	65
Tablet holder, Erasive	D. M. Somers	168,850	Oct. 19, 1875	516	169	8	654
Tack	E. P. Hincks	170,854	Dec. 7, 1875	177	60	8	974
Tack-driving machine	J. E. Coffin	168,878	Oct. 19, 1875	539	177	8	657
Tack-extractor	M. Hermance	171,129	Dec. 14, 1875	452	148	8	1018
Tacks, awls, &c., Machine for making crimping	H. A. Williams	167,046	Aug. 24, 1875	845	263	8	344
Tacking-machine	J. W. Carver	163,456	May 18, 1875	696	222	7	862
Tackle-block	G. Martin	160,534	Mar. 9, 1875	264	90	7	395
Tag	C. B. Sheldon	158,443	Jan. 5, 1875	79	27	7	20
Tag-fastener	T. P. Marston	168,267	Sept. 23, 1875	847	270	8	549
Tag-fastener	T. P. Marston	169,650	Nov. 9, 1875	329	104	8	786
Tag-machine	H. D. Mentzel	165,109	June 29, 1875	1209	389	7	1127
Tag-stringing machine	W. L. Nye	165,173	July 6, 1875	31	9	8	13
Tailor's drafting apparatus	M. C. Ten Eyck	168,936	Oct. 19, 1875	597	197	8	665
Tailor's pattern	J. H. Nichols	169,468	Nov. 2, 1875	133	42, 43	8	753
Tailor's shears	M. E. Pleas	164,327	June 8, 1875	461	152	7	1004
Tallow, oils, &c., Apparatus for treating	J. Tardos, jr.	171,328	Dec. 21, 1875	660	217	8	1053
Tally, Grain	S. A. Hazleton	163,590	May 25, 1875	842	266	7	888
Tally, Grain	W. Schnebly	165,763	July 20, 1875	617	190	8	118
Tally, Grain	H. L. Townsend	171,195	Dec. 14, 1875	513	169	8	1026
Tally, Grain	W. D. Wiley	166,442	Aug. 3, 1875	244	74	8	234
Tampico-dressing machine	J. D. Baker	171,080	Dec. 14, 1875	401	133	8	1011
Tan-vat	O. W. Bean	170,330	Nov. 23, 1875	1002	314	8	890
Tan-vat	C. H. Manning	163,021	May 11, 1875	282	91	7	792
Tank:							
See Cement-tank. Night-soil tank.							
Lard-tank. Oil-tank.							
Lard-rendering tank. Oil safety-tank.							
Measuring-tank.							
Tank-regulator	A. Fuller	164,539	June 15, 1875	666	216	7	1039
Tanning apparatus	E. C. Haserick	159,510	Feb. 9, 1875	274	89	7	230
Tanning apparatus	H. Reed	158,438	Jan. 5, 1875	72	26	7	19
Tanning compound	A. Haswell and J. C. Long	163,191	May 11, 1875	443		7	812
Tanning hides and skins	J. Angus	167,866	Sept. 21, 1875	464		8	487
Tanning hides, Process for	G. A. Bartenback and C. Richter	162,140	Apr. 30, 1875	511		7	657
Tanning hides, Process of	E. A. Baldwin and C. A. Holcombe.	164,792	June 22, 1875	902		7	1080
Tanning hides, Process of	A. De Meritens	165,314	July 6, 1875	155		8	30
Tanning leather	G. W. Hatch	165,822	July 20, 1875	685		8	126
Tanning pickled skins	W. R. Stace	159,366	Feb. 2, 1875	113		7	200
Tanning, Preparing hides and skins for	H. Ely	170,623	Nov. 30, 1875	1290		8	937
Tanning skins, Process of	E. Manasse	165,348	July 6, 1875	188		8	35
Tap and faucet for barrels	A. C. Springer	162,427	Apr. 20, 1875	781	254	7	690
Tap, Cask	T. A. Mathewson	159,522	Feb. 9, 1875	286	92	7	231
Tapping barrels, &c., of fermented liquors, Apparatus for	J. Barrett	165,467	July 13, 1875	340	100	8	62
Tapping mains, Machine for	J. Hancock	169,438	Nov. 2, 1875	107	34	8	749
Tapping water-mains, Device for	J. Curran	165,310	July 6, 1875	151	46	8	29
Taper-gage	C. B. Hunt	165,734	July 20, 1875	594	182	8	115
Tar from sea-weed, Apparatus for obtaining	W. H. Ruddick	167,410	Sept. 7, 1875	29	8	8	410
Tar, Treating	T. H. Dunham	163,979	June 1, 1875	116		7	947
Target	C. Buckner, jr.	162,149	Apr. 20, 1875	518	170	7	658
Target	T. B. Connery	164,525	June 15, 1875	656	212	7	1038
Target	T. H. Mead	169,019	Oct. 19, 1875	670	220	8	675
Tea and coffee pot	L. Evans	160,408	Mar. 2, 1875	133	47	7	368
Tea and coffee pot	J. B. Hutchinson and G. W. Fairfield.	162,658	Apr. 27, 1875	1005	322	7	727
Tea-caddy	W. T. Sherer	161,829	Apr. 6, 1875	211	71	7	509
Tea, coffee, &c., caddy	R. Mainer	169,113	Oct. 26, 1875	785	255	8	698
Tea-kettle	H. Gray	159,817	Feb. 16, 1875	560	186	7	274
Tea-kettle	N. A. Menaar	164,385	June 15, 1875	531	174	7	1022
Tea-kettle handle	W. S. Potwin	162,305	Apr. 20, 1875	660	215	7	676
Tea-pot handle	T. Shaw	159,121	Jan. 26, 1875	758	249	7	150
Teaching drawing, Device for	E. L. Crawl	171,268	Dec. 21, 1875	612	200	8	1047
Teaching penmanship, Copy-slip for	C. Allen	161,192	Mar. 23, 1875	878	288	7	494
Teeth, Artificial	W. H. Gates	164,913	June 29, 1875	1039	335	7	1104
Teeth, Composition for filling	E. Erlenmeyer	159,568	Feb. 9, 1875	320		7	236
Teeth, Plate for artificial	B. J. Field	160,582	Mar. 9, 1875	304	103	7	401
Teeth-protector	A. Hopfen	165,584	July 13, 1875	442	134	8	78
Teeth, Securing pins to artificial	O. S. Bixby	160,675	Feb. 23, 1875	816	268	7	316
Teeth, Treating celluloid bases for artificial	J. G. Cannon	165,303	July 6, 1875	143	44	8	28
Telegraph and circuit, Automatic and autographic	W. E. Sawyer	159,460	Feb. 2, 1875	201	66, 67	7	212
Telegraph apparatus	T. A. Edison	158,787	Jan. 19, 1875	429	141	7	98
Telegraph apparatus	T. A. Edison	171,273	Dec. 21, 1875	616	201	8	1047
Telegraph apparatus	M. Gally	159,664	Feb. 9, 1875	400	133	7	248
Telegraph apparatus, Automatic	O. Heikel	167,242	Aug. 31, 1875	1048	326	8	380

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Telegraph apparatus, Duplex.....	M. G. Farmer	160, 581	Mar. 9, 1875	301	{ 102 103	7	401
Telegraph, Autographic	W. E. Sawyer.....	171, 051	Dec. 14, 1875	369	{ 122 123	8	1007
Telegraph, Automatic	P. B. Delany	165, 156	July 6, 1875	10	3	8	10
Telegraph, Automatic	T. A. Edison	168, 243	Sept. 28, 1875	824	262	8	546
Telegraph, Automatic	C. Wheatstone and J. M. A. Stroh	166, 168	July 27, 1875	1029	317	8	186
Telegraph, Automatic electric	W. E. Sawyer	165, 620	July 13, 1875	479	146	8	83
Telegraph circuit, Fire-alarm	J. N. Gamewell	163, 310	May 18, 1875	570	182	7	845
Telegraph, Copying	W. E. Sawyer	171, 050	Dec. 14, 1875	368	.....	8	1007
Telegraph coupling, Train	A. Ryder	169, 732	Nov. 9, 1875	411	130	8	796
Telegraph, Dial electric	C. T. Chester.....	165, 063	June 29, 1875	1166	{ 375 376	7	1121
Telegraph, Duplex	T. A. Edison	162, 633	Apr. 27, 1875	979	315	7	724
Telegraph, Duplex	T. A. Edison	168, 385	Oct. 5, 1875	58	21	8	573
Telegraph, Duplex	M. Gally	163, 923	June 1, 1875	70	24	7	940
Telegraph, Duplex	G. Smith	165, 263	July 6, 1875	111	33	8	24
Telegraph, Electric	R. K. Boyle	169, 513	Nov. 2, 1875	171	57	8	758
Telegraph, Electric train	H. C. Keyes and J. P. Clark.....	166, 616	Aug. 10, 1875	411	127	8	265
Telegraph, Electro-magnetic	J. Olmsted	167, 685	Sept. 14, 1875	281	89	8	453
Telegraph, Fac-simile	J. C. Ludwig	170, 385	Nov. 23, 1875	1048	329	8	896
Telegraph, Fire-alarm	S. Chester	169, 087	Oct. 26, 1875	757	247	8	694
Telegraph, Fire-alarm	A. Rosenbusch	162, 953	May 4, 1875	202	66	7	774
Telegraph for transmitting musical tones, Electric.....	E. Gray	166, 095	July 27, 1875	957	{ 294 295	8	176
Telegraph for transmitting musical tones, Electric	E. Gray	166, 096	July 27, 1875	958	295	8	177
Telegraph-key, Automatic	L. S. Crandall	168, 143	Sept. 28, 1875	740	233	8	534
Telegraph-key, Automatic	L. S. Crandall	168, 144	Sept. 28, 1875	741	234	8	534
Telegraph-key, Compound	M. L. M. Hussey	166, 876	Aug. 17, 1875	671	208	8	311
Telegraph-line, Underground	D. Brooks	165, 535	July 13, 1875	399	120	8	71
Telegraph magnet, Electric	C. Wheatstone and J. M. A. Stroh	166, 169	July 27, 1875	1030	317	8	187
Telegraph, Magneto-printing	G. L. Anders	169, 506	Nov. 2, 1875	163	54, 55	8	757
Telegraph, Non-interfering fire-alarm	J. W. Kates	165, 591	July 13, 1875	448	136	8	79
Telegraph paper, Solution for chemical	T. A. Edison	160, 402	Mar. 2, 1875	130	.....	7	367
Telegraph paper, Solution for chemical	T. A. Edison	160, 403	Mar. 2, 1875	130	.....	7	367
Telegraph paper, Solution for chemical	T. A. Edison	160, 404	Mar. 2, 1875	130	.....	7	367
Telegraph paper, Solution for chemical	T. A. Edison	160, 580	Mar. 9, 1875	301	.....	7	401
Telegraph-pole, Metallic	R. D. Radcliffe	159, 215	Jan. 26, 1875	844	276	7	162
Telegraph, Pressure, alarm, and signal.....	C. E. Buell	169, 654	Nov. 16, 1875	637	198	8	832
Telegraph, Printing	T. A. Edison	168, 004	Sept. 21, 1875	571	184	8	504
Telegraph, Printing	E. Gray	168, 249	Sept. 28, 1875	830	{ 265 266	8	547
Telegraph, Printing	A. A. Knudson	160, 442	Mar. 2, 1875	166	57	7	372
Telegraph, Printing	G. M. Phelps	161, 151	Mar. 23, 1875	845	{ 275 276	7	490
Telegraph, Printing	G. M. Phelps	168, 919	Oct. 19, 1875	583	{ 192 193	8	663
Telegraph, Printing	J. E. Smith	165, 379	July 6, 1875	219	66	8	38
Telegraph, Printing	C. J. Wiley	168, 949	Oct. 19, 1875	606	201	8	667
Telegraph, Printing	C. J. Wiley	169, 875	Nov. 9, 1875	558	174	8	814
Telegraph, Printing	A. Wirsching	166, 911	Aug. 17, 1875	702	218	8	315
Telegraph, Quadruplex	J. Olmsted	170, 963	Dec. 14, 1875	291	98	8	997
Telegraph, Railway	B. Cade	171, 350	Dec. 21, 1875	681	224	8	1056
Telegraph-receiver, Electro-harmonic	E. Gray	166, 094	July 27, 1875	956	294	8	176
Telegraph recording-point, Chemical	T. A. Edison	168, 467	Oct. 5, 1875	129	.....	8	583
Telegraph-relay	P. B. Delany	165, 157	July 6, 1875	10	4	8	10
Telegraph-relay, Pocket	E. A. Hill and H. J. Schneider ..	165, 578	July 13, 1875	437	132	8	77
Telegraph signal-box, Fire-alarm	M. G. Crane	165, 918	July 27, 1875	784	241	8	153
Telegraph solution, Chemical	T. A. Edison	168, 465	Oct. 5, 1875	128	.....	8	583
Telegraph solution, Chemical	T. A. Edison	168, 466	Oct. 5, 1875	129	.....	8	583
Telegraph-sounder	J. H. Bunnell	159, 894	Feb. 16, 1875	632	210	7	284
Telegraph sounder and recorder.....	D. F. Leahy	160, 271	Mar. 2, 1875	15	6	7	351
Telegraph-sounder, Mechanical	M. F. Wessmann	160, 374	Mar. 2, 1875	102	37	7	363
Telegraph, Station for submarine	R. F. Bradley	163, 915	June 1, 1875	64	22	7	939
Telegraph, Train	A. Ryder	164, 940	June 29, 1875	1065	343	7	1107
Telegraph, Train	A. N. Towne	163, 549	May 18, 1875	790	250	7	873
Telegraph-transmitter	H. Middleton	166, 712	Aug. 17, 1875	520	{ 159 160	8	289
Telegraph transmitter and receiver, Automatic	T. A. Edison	168, 242	Sept. 28, 1875	823	261	8	545
Telegraph transmitter and receiver, Electric	A. G. Bell	161, 739	Apr. 6, 1875	129	45	7	587
Telegraph-transmitter, Electro-harmonic	E. Gray	165, 728	July 20, 1875	588	180	8	114
Telegraph-wire coupling	S. M. Barbour and F. A. Page.....	165, 055	June 29, 1875	1160	373	7	1120
Telegraph-wire, Insulated	W. Strickler	162, 204	Apr. 20, 1875	568	186	7	664
Telegraphs, Compound switch for fire-alarm.....	S. Weeks	161, 721	Apr. 6, 1875	110	39	7	585
Telegraphic apparatus and circuit.....	M. Gally	158, 928	Jan. 19, 1875	558	185	7	116
Telegraphic apparatus, Automatic	M. Gally	158, 927	Jan. 19, 1875	556	{ 184 185	7	115
Telegraphic circuit	W. E. Sawyer	166, 305	Aug. 3, 1875	109	34	8	215
Telegraphic fire-alarm repeater.....	J. N. Gamewell, M. G. Crane, and E. Rogers.....	165, 923	July 27, 1875	790	243	8	154
Telegraphic signal apparatus	J. W. Kates	158, 715	Jan. 12, 1875	337	115	7	71
Telegraphic signal-box	W. H. Sawyer	159, 771	Feb. 16, 1875	517	172	7	269
Telegraphy, Automatic or chemical.....	W. E. Sawyer	158, 442	Jan. 5, 1875	75	27	7	20
Telegraphy, Chemical	T. A. Edison	166, 859	Aug. 17, 1875	654	.....	8	309
Telegraphy, Chemical	T. A. Edison	166, 860	Aug. 17, 1875	655	.....	8	309
Telegraphy, Chemical	T. A. Edison	166, 861	Aug. 17, 1875	655	.....	8	309
Telescope eye-piece	J. W. Nystrom	169, 917	Nov. 16, 1875	698	188	8	829
Telescope tower for light-ships	S. D. Trenchard	160, 290	Mar. 2, 1875	30	12	7	353
Tellurian	J. Troll	167, 138	Aug. 24, 1875	934	291	8	357
Temperature, Instrument for regulating	A. Campbell	169, 339	Nov. 2, 1875	16	5	8	736
Tempering furnace, Steel	J. B. Armstrong	170, 430	Nov. 30, 1875	1107	349	8	913
Tempering steel plates	A. Disston and C. T. Shoemaker ..	159, 652	Feb. 9, 1875	385	127	7	246
Temple-teeth, Machine for setting.....	N. Chapman	168, 719	Oct. 11, 1875	387	127	8	627
Tenon-relishing machine	E. A. Rowley	160, 957	Mar. 16, 1875	659	215	7	456
Tenons and cutting wedges, Machine for relishing.....	J. H. Millsbaugh	161, 810	Apr. 6, 1875	190	64	7	596

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Tenoning-machine	H. Brand	169,336	Nov. 2, 1875	12	4	8	736
Tenoning-machine	E. H. Rees	170,396	Nov. 23, 1875	1061	{ 333 334 }	8	898
Testing-machine	L. A. Beardslee	161,737	Apr. 6, 1875	128	44	7	587
Testing-machine	W. J. Scott	169,376	Nov. 2, 1875	54	16	8	742
Testing the strength of materials, Machine for	L. A. Beardslee	161,653	Apr. 6, 1875	56	21	7	577
Textile materials, Machine for piling	A. Warth	159,988	Feb. 16, 1875	718	{ 238 239 }	7	295
Thermometer	J. Gall	167,327	Aug. 31, 1875	1121	352	8	390
Thermometer	G. Gano	165,816	July 20, 1875	674	206	8	125
Thermometer, Registering	D. Draper	164,275	June 8, 1875	413	138	7	997
Thermostat, Electric	E. J. Frost	165,413	July 13, 1875	232	84	8	54
Thill-coupling	H. K. Boswell and D. Immel	162,610	Apr. 27, 1875	962	309	7	722
Thill-coupling	C. D. Bundy	164,140	June 8, 1875	286	98	7	981
Thill-coupling	J. R. Barville	158,399	Jan. 5, 1875	43	15	7	15
Thill-coupling	F. Chapman	167,431	Sept. 7, 1875	48	14	8	413
Thill-coupling	H. K. Forbis	164,286	June 8, 1875	422	141	7	998
Thill-coupling	A. W. Forwood	161,402	Mar. 30, 1875	1103	357	7	531
Thill-coupling	O. B. Franklin	162,544	Apr. 27, 1875	902	290	7	714
Thill-coupling	C. O. Gardiner	163,762	May 25, 1875	986	313	7	907
Thill-coupling	S. A. Hathaway	166,697	Aug. 17, 1875	505	154	8	287
Thill-coupling	S. L. Hill	168,491	Oct. 5, 1875	153	50	8	587
Thill-coupling	N. P. Ingalls	158,944	Jan. 19, 1875	569	189	7	117
Thill-coupling	E. Jarrell	160,681	Mar. 9, 1875	388	131	7	413
Thill-coupling	J. B. Johnston	167,175	Aug. 31, 1875	994	309	8	372
Thill-coupling	W. Katon	168,160	Sept. 28, 1875	755	238	8	536
Thill-coupling	G. W. Ladd	164,845	June 22, 1875	955	309	7	1087
Thill-coupling	H. A. Luttgens	161,973	Apr. 13, 1875	346	116	7	628
Thill-coupling	T. McCaffery	170,681	Dec. 7, 1875	26	8	8	954
Thill-coupling	M. McDevitt	162,671	Apr. 27, 1875	1020	327	7	729
Thill-coupling	A. Olsson	159,348	Feb. 2, 1875	98	34	7	197
Thill-coupling	B. S. Porter	170,491	Nov. 30, 1875	1163	367	8	920
Thill-coupling	T. J. Quick	169,582	Nov. 2, 1875	243	80	8	767
Thill-coupling	W. L. Rayment	170,113	Nov. 16, 1875	780	248	8	852
Thill-coupling	C. Robinson	161,826	Apr. 6, 1875	208	70	7	598
Thill-coupling	J. S. Smith	162,202	Apr. 20, 1875	567	186	7	664
Thill-coupling	E. Soper	159,615	Feb. 9, 1875	355	117	7	241
Thill-coupling	S. M. Strader	160,728	Mar. 9, 1875	434	144	7	419
Thill-coupling	D. W. Thomas	161,913	Apr. 13, 1875	296	100	7	622
Thill-coupling	A. M. Troy	158,544	Jan. 5, 1875	167	57	7	32
Thill-coupling	H. Tyler	159,480	Feb. 2, 1875	227	74	7	216
Thill-coupling	J. Walker	161,366	Mar. 30, 1875	1063	346	7	526
Thill-coupling	B. C. Walter	168,303	Sept. 28, 1875	878	281	8	553
Thill-coupling	S. J. Wiser	163,713	May 25, 1875	945	300	7	901
Thill-coupling	G. Wright	160,738	Mar. 9, 1875	445	148	7	421
Thill coupling and uncoupling device	F. P. Stone	158,607	Jan. 12, 1875	242	82	7	58
Thill-coupling clamp	L. B. Prindle	166,141	July 27, 1875	1002	309	8	183
Thill-coupling jack	J. H. Combs	161,387	Mar. 30, 1875	1088	352	7	529
Thill coupling, Sleigh	C. H. Johnson	163,781	May 25, 1875	1002	318	7	909
Thill-loop	F. S. Berry and G. F. Alexander	162,522	Apr. 27, 1875	889	284	7	712
Thill, Open	C. H. Matthiessen	170,634	Nov. 30, 1875	1302	411	8	938
Thrasher and huller, Clover	G. J. Utendorf	171,492	Dec. 28, 1875	827	{ 271 272 }	8	1084
Thrashing-machine	T. Harrison and W. C. Buchanan	160,320	Mar. 2, 1875	60	21	7	357
Thrashing-machine	A. Johnston	164,178	June 8, 1875	321	{ 109 110 }	7	985
Thrashing-machine band-cutter	E. L. Beard	163,964	June 1, 1875	103	35	7	945
Thrashing-machine band-cutter	P. A. Sommers	162,706	Apr. 27, 1875	1059	338	7	733
Thrashing-machine coupling	E. Knock	163,083	May 11, 1875	340	110	7	799
Thrashing-machine feeder	B. Jackson	163,076	May 11, 1875	335	109	7	798
Thrashing-machine feeder	A. W. Lockhart	167,912	Sept. 21, 1875	500	159	8	493
Thrashing-machine stacker attachment	L. Kittinger and J. K. Kurtz	160,204	Feb. 23, 1875	922	303	7	331
Thrashing-machine straw-carrier	G. Gentzel	162,545	Apr. 27, 1875	909	291	7	714
Thrashing-machine teeth	J. W. Waterman	168,305	Sept. 28, 1875	879	281	8	554
Thrashing-machines, Band-cutting feeder for	D. Frost	159,663	Feb. 9, 1875	398	133	7	247
Thrashing-machines, Distributer for feeding-belts of	B. Jackson	163,077	May 11, 1875	336	109	7	798
Thrashing-machines, Separator-shoe for	A. D. Thomas	168,939	Oct. 19, 1875	599	198	8	666
Thread, twine, &c., Twister for making	J. Sutherland	161,453	Mar. 30, 1875	1146	370	7	537
Thread-winding guide	E. L. Manchester and J. A. Bolen	158,427	Jan. 5, 1875	64	23	7	18
Ticket	L. Brush	163,732	May 25, 1875	962	305	7	903
Ticket	B. Moses	170,686	Dec. 7, 1875	30	9	8	954
Ticket	J. M. Larin	171,429	Dec. 21, 1875	753	248	8	1066
Ticket-case	L. J. Blades	161,093	Mar. 23, 1875	793	260	7	483
Ticket-case	W. H. Crowther	165,478	July 13, 1875	349	102	8	63
Ticket-case	W. H. Crowther and T. Collins	165,479	July 13, 1875	351	103	8	63
Ticket-case	D. T. Vine and J. J. Schuler	170,133	Nov. 16, 1875	798	253	8	854
Ticket-case	I. White	167,593	Sept. 7, 1875	190	59	8	433
Ticket-clasp	M. Disney	160,260	Mar. 2, 1875	6	3	7	350
Ticket-clasp	A. Le Roy and W. M. Hunting	162,565	Apr. 27, 1875	925	297	7	717
Ticket-clasp	M. L. Shattuck	158,533	Jan. 5, 1875	159	54	7	31
Ticket, Complex-coupon railway	T. Cook	166,343	Aug. 3, 1875	144	44	8	220
Ticket, Railway	E. R. Cook	163,462	May 18, 1875	702	224	7	862
Ticket-reel	L. J. Masterson	159,943	Feb. 16, 1875	675	224	7	290
Ticket-reel	A. Stephenson	167,416	Sept. 7, 1875	35	10	8	411
Tide and current wheel, Submerged	J. J. Hill	170,263	Nov. 23, 1875	943	295	8	881
Tide-power	P. Beche	163,965	June 1, 1875	104	35	7	945
Tie: See Axle-clip tie. Bag-tie. Bale-tie.	Neck-tie. Railway-tie.						
Tile	C. J. Merrill	170,582	Nov. 30, 1875	1250	393	8	931
Tile, Illuminating	T. Hyatt	165,535	July 20, 1875	698	212	8	128
Tile-machine	T. E. Chandler and F. Taylor	158,570	Jan. 12, 1875	208	71	7	53
Tile making and laying machine	R. Hoffhein	166,104	July 27, 1875	965	297	8	178
Tile-molding machine	C. Diebold	161,391	Mar. 30, 1875	1091	354	7	530

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Tiles, Composition for.....	W. G. Monk.....	162,675	Apr. 27, 1875	1024	.....	7	729
Tiles, Ornamental wood flooring.....	R. Fenn.....	162,646	Apr. 13, 1875	408	137	7	637
Tiles, Process of manufacturing.....	E. L. Hall.....	159,093	Jan. 26, 1875	732	.....	7	147
Tiling, Manufacture of.....	F. H. Hall.....	164,553	June 15, 1875	679	.....	7	1041
Till-lock alarm.....	S. C. Frink.....	169,632	Nov. 9, 1875	309	99	8	783
Till-lock, Combination.....	G. H. Peacock.....	170,108	Nov. 16, 1875	776	246	8	851
Tilting chair.....	W. T. Doremus.....	161,671	Apr. 6, 1875	72	26	7	579
Tilting chair.....	W. Gardner.....	160,764	Mar. 16, 1875	494	160	7	434
Tilting chair.....	H. S. Hale.....	168,482	Oct. 5, 1875	145	48	8	586
Tilting chair.....	L. Heywood.....	170,561	Nov. 30, 1875	1228	387	8	929
Tilting chair.....	S. Hoffman.....	158,492	Jan. 5, 1875	126	42	7	27
Tilting chair.....	S. Hoffman.....	168,744	Oct. 11, 1875	413	134	8	631
Tilting chair.....	R. W. Myers.....	158,388	Jan. 5, 1875	32	11	7	13
Tilting chair.....	R. W. Myers.....	160,943	Mar. 16, 1875	646	211	7	455
Tilting chair.....	O. F. Spencer.....	160,624	Mar. 9, 1875	341	115	7	406
Tilting chair.....	J. M. Waters.....	163,705	May 23, 1875	937	298	7	900
Timber with antiseptic fluid, Device for impregnating.....	J. Hamilton.....	171,135	Dec. 14, 1875	458	150	8	1018
Timber with antiseptic fluid, Device for impregnating.....	J. Hamilton.....	171,136	Dec. 14, 1875	459	150	8	1019
Time-check.....	H. Greene.....	165,817	July 20, 1875	674	207	8	126
Time-check, Watchman's.....	L. Aldridge.....	169,942	Nov. 16, 1875	628	195	8	831
Time-detector, Watchman's.....	W. Imhaeuser.....	170,443	Nov. 30, 1875	1119	352	8	914
Time-lock.....	J. Burge.....	166,255	Aug. 3, 1875	65	20	8	208
Time-lock.....	L. A. Haines.....	170,553	Nov. 30, 1875	1221	384	8	928
Time-lock.....	P. B. Hennessey.....	170,558	Nov. 30, 1875	1225	386	8	929
Time-lock.....	D. Moore.....	161,052	Mar. 23, 1875	749	246	7	478
Time-lock.....	O. E. Pillard.....	166,632	Aug. 10, 1875	426	132	8	267
Time-lock.....	J. Sargent.....	165,878	July 20, 1875	735	225	8	135
Time-lock.....	E. Stockwell.....	168,062	Sept. 21, 1875	644	205	8	513
Time-recording instrument.....	T. Mayhew.....	164,384	June 15, 1875	529	174	7	1022
Tin from tin-scraps, Removing.....	J. Holliday and H. M. Baker.....	160,018	Feb. 23, 1875	766	.....	7	309
Tin-plate, Apparatus for decorating.....	A. E. Schmidt and G. J. M. Radbruch.....	163,262	May 11, 1875	505	164	7	820
Tin scraps, Process for utilizing.....	H. Frasch.....	171,276	Dec. 21, 1875	618	.....	8	1048
Tin vessel.....	T. Schmitz.....	169,046	Oct. 19, 1875	699	230	8	679
Tinman's furnace.....	L. F. Betts.....	169,673	Nov. 9, 1875	351	111	8	788
Tippet and muff combined.....	J. Engle.....	161,332	Mar. 30, 1875	1032	336	7	522
Tire.....	H. Thompson.....	170,786	Dec. 7, 1875	120	39	8	966
Tire-bending machine.....	T. M. and A. F. Stansbury.....	166,944	Aug. 24, 1875	748	232	8	331
Tire for vehicle-wheels, Rubber.....	J. A. Greene.....	169,100	Oct. 26, 1875	772	251	8	696
Tire-heating apparatus.....	S. G. Reed.....	158,522	Jan. 5, 1875	150	51	7	30
Tire-heating device.....	J. Harris, jr.....	159,820	Feb. 16, 1875	563	187	7	274
Tire-heating device, Wagon.....	S. B. Hopkins.....	163,592	May 25, 1875	844	266	7	888
Tire-setter.....	D. Squier.....	161,834	Apr. 6, 1875	215	72	7	599
Tire-setting machine.....	I. H. Spelman.....	167,798	Sept. 14, 1875	386	124	8	468
Tire-shrinker.....	D. Strattan.....	160,729	Mar. 9, 1875	435	144	7	419
Tire-shrinking machine.....	J. D. Hobbs.....	167,835	Sept. 21, 1875	434	138	8	483
Tire-shrinking machine.....	H. W. Roland.....	169,042	Oct. 19, 1875	694	229	8	678
Tire-tightener.....	J. T. Hall.....	162,232	Apr. 20, 1875	596	195	7	668
Tire-tightener.....	H. A. R. Horton and A. P. Hayes.....	166,105	July 27, 1875	967	297	8	178
Tire-tightener.....	W. O. Johnson.....	169,814	Nov. 9, 1875	497	156	8	807
Tire-tightener.....	J. and C. M. Leshner.....	161,692	Apr. 6, 1875	89	31	7	582
Tire-tightener.....	J. W. Marks.....	169,014	Oct. 19, 1875	667	219	8	674
Tire-tightener.....	S. W. McOmber.....	169,017	Oct. 19, 1875	669	220	8	675
Tire-tightener.....	E. I. Moore.....	170,583	Nov. 30, 1875	1250	394	8	932
Tire-tightener.....	H. B. Robbins.....	159,219	Jan. 26, 1875	847	277	7	163
Tire-tightener.....	W. R. Swarthout.....	168,806	Oct. 11, 1875	465	152	8	638
Tire-tightening machine.....	J. Champlin.....	167,303	Aug. 31, 1875	1099	346	8	387
Tire-upsetter.....	G. D. Jacoby.....	171,225	Dec. 21, 1875	571	187	8	1041
Tire-upsetter.....	C. J. Reimold and N. Stoddard.....	159,708	Feb. 9, 1875	440	147	7	253
Tire-upsetter.....	M. Shon.....	170,688	Dec. 7, 1875	32	10	8	955
Tire-upsetting machine.....	W. Holdsworth.....	169,265	Oct. 26, 1875	919	298	8	717
Tire-upsetting machine.....	J. H. Mertz.....	167,922	Sept. 21, 1875	506	161	8	494
Tire-upsetting machine.....	M. G. Schenck.....	165,261	July 6, 1875	109	32	8	24
Tire-upsetting machine.....	H. S. Vinton.....	161,844	Apr. 6, 1875	225	75	7	601
Tire, Vehicle-wheel.....	E. Ball.....	168,211	Sept. 28, 1875	798	254	8	542
Tires, Clip for splicing broken.....	J. W. Hoddinott.....	170,371	Nov. 23, 1875	1032	324	8	894
Tobacco-boxes, Machine for raising and planishing.....	C. J. Hauck.....	162,817	May 4, 1875	74	24	7	757
Tobacco-bucket lid.....	I. N. Reynolds.....	168,417	Oct. 5, 1875	88	30	8	577
Tobacco, Coloring.....	O. Knab.....	159,102	Jan. 26, 1875	740	.....	7	148
Tobacco-curer.....	J. C. Millner.....	171,481	Dec. 28, 1875	819	268	8	1083
Tobacco, Curing.....	J. D. Culp.....	169,777	Nov. 9, 1875	460	146	8	803
Tobacco-cutter.....	J. L. Adams and J. G. Blondin.....	167,288	Aug. 31, 1875	1087	341	8	385
Tobacco-cutter.....	W. Smith.....	159,714	Feb. 9, 1875	446	149	7	254
Tobacco-cutting machine.....	A. A. Hagen.....	168,636	Oct. 11, 1875	320	104	8	617
Tobacco-drier.....	D. B. Chapin.....	170,469	Nov. 30, 1875	1143	361	8	918
Tobacco-drier.....	C. Duwell.....	168,384	Oct. 5, 1875	57	21	8	573
Tobacco-drier.....	H. R. Farmer.....	170,624	Nov. 30, 1875	1292	408	8	937
Tobacco flavoring and preserving compound.....	G. E. Steny.....	166,155	July 27, 1875	1016	.....	8	185
Tobacco-hanger.....	T. B. Garr.....	169,095	Oct. 26, 1875	768	249	8	696
Tobacco-hanger.....	S. C. Shelton.....	161,828	Apr. 6, 1875	210	70	7	599
Tobacco in bags, Machine for packing.....	J. B. Farrar.....	169,533	Nov. 2, 1875	187	63, 64	8	760
Tobacco-knife.....	A. Lane and J. H. Cullom.....	165,104	June 29, 1875	1206	388	7	1127
Tobacco-knife.....	E. T. Shelton.....	164,880	June 22, 1875	992	330	7	1091
Tobacco, Machine for handling straight-cut.....	F. S. Kinney.....	164,186	June 8, 1875	328	112	7	986
Tobacco, Machine for laminating stems in leaf.....	G. P. Unverzagt.....	162,778	May 4, 1875	40	13	7	752
Tobacco machine, Lump.....	D. W. De Forest.....	161,331	Mar. 30, 1875	1031	336	7	522
Tobacco-package.....	J. D. Culp.....	162,353	Apr. 20, 1875	706	230	7	681
Tobacco-packing machine.....	H. Winterwerber.....	160,045	Feb. 23, 1875	788	260	7	312
Tobacco-pipe bowls, Machine for shaping.....	J. Schneider and L. Uilting.....	162,698	Apr. 27, 1875	1053	335	7	732
Tobacco-pipe enamel.....	F. G. Merriam.....	169,827	Nov. 9, 1875	510	160	8	808
Tobacco-pipe, &c., Package for.....	I. Demuth.....	171,554	Dec. 28, 1875	885	290	8	1092
Tobacco, Plug.....	C. Siedler.....	158,604	Jan. 12, 1875	239	81	7	58
Tobacco-pouch mouth-piece.....	B. Morahan.....	165,606	July 13, 1875	461	141	8	81
Tobacco, Treating.....	G. S. Prince.....	162,767	May 4, 1875	28		7	751
Tobacco, Treating chewing.....	S. V. Appleby.....	160,138	Feb. 23, 1875	866		7	324

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Toe-calks, Machine for making	L. S. Wright	158,819	Jan. 19, 1875	452	150	7	102
Toe-weight	L. W. Moses	169,653	Nov. 9, 1875	332	105	8	786
Toilet-bracket	R. A. Smith	163,111	May 11, 1875	365	119	7	802
Toilet-case and towel-roller, Combined	D. Miller	170,288	Nov. 23, 1875	963	301	8	884
Toilet-glass frame	J. Hollely	166,007	July 27, 1875	873	208	8	164
Toilet-pin	A. N. Kellogg	160,528	Mar. 9, 1875	258	88	7	394
Toilet water and extract, Portable	A. G. Campbell	162,529	Apr. 27, 1875	896		7	713
Tombstones, Floral ornaments for	A. French	169,898	Nov. 16, 1875	590	183	8	826
Tongs and cutter, Pipe	C. Fenton	164,368	June 15, 1875	516	169	7	1020
Tongs, Fire	L. Holmes	162,068	Apr. 13, 1875	426	142	7	639
Tongs, Pipe	S. H. Dickerson	169,425	Nov. 2, 1875	96	30	8	748
Tongs, Pipe	J. M. Everts	167,085	Aug. 24, 1875	886	276	8	350
Tongs, Pipe	A. McDonald	168,166	Sept. 28, 1875	761	241	8	537
Tongs, Pipe	G. Selden	162,291	Sept. 28, 1875	867	278	8	552
Tongs, Pipe	G. Selden	168,292	Sept. 28, 1875	868	278	8	552
Tongs, Pipe	S. Stone	165,271	July 6, 1875	117	35	8	25
Tongue attachment, Wagon	W. M. Bernhard	162,214	Apr. 20, 1875	578	189	7	665
Tongue caps, Blank-bar for wagon	J. Jensen	171,288	Dec. 21, 1875	629	206	8	1049
Tongue-support	H. H. Briggs	170,434	Nov. 30, 1875	1111	350	8	913
Tongue-support	J. Jarrell	164,175	June 8, 1875	319	109	7	985
Tongue-support	J. D. Meals	170,878	Dec. 7, 1875	196	67	8	977
Tongue-support	L. Shruben	163,264	May 11, 1875	507	165	7	820
Tongue-support	E. Spears	161,713	Apr. 6, 1875	104	37	7	584
Tongue support, Vehicle	G. W. Burnside	164,969	June 29, 1875	1088	350	7	1111
Tongue support, Wagon	G. E. Clow and P. H. Webster	169,776	Nov. 9, 1875	460	145	8	802
Tongue supporter, Vehicle	J. McCarter	161,696	Apr. 6, 1875	91	32	7	582
Tongues, whiffletrees, &c., Spring-bolt fastening for	E. H. Pettit	159,116	Jan. 26, 1875	754	248	7	149
Tool	T. Hagerty	165,671	July 20, 1875	544	165	8	107
Tool, Combined	A. Button	159,561	Feb. 9, 1875	315	103	7	235
Tool-eyes, Die for forming	J. R. Thomas	166,568	Aug. 10, 1875	370	114	8	259
Tool, Fitting	T. S. Carroll	160,159	Feb. 23, 1875	885	292	7	326
Tool-handle	A. Beaudry	164,070	June 8, 1875	226	79	7	973
Tool-handle	T. J. Close	168,876	Oct. 19, 1875	538	176	8	657
Tool-handle	G. W. Miller	169,367	Nov. 2, 1875	47	14	8	741
Tool-handle	W. E. Schwin	167,273	Aug. 31, 1875	1073	335	8	383
Tool-handle	J. C. Sears	168,789	Oct. 11, 1875	451	147	8	636
Tool-handle	H. Staples	160,725	Mar. 9, 1875	432	144	7	419
Tool handle, Boring	H. Stanley	168,933	Oct. 19, 1875	595	197	8	665
Tool-handle fastening	W. M. Fisk	161,942	Apr. 13, 1875	322	108	7	625
Tool-holder	J. A. B. Williams	170,694	Dec. 7, 1875	38	11	8	956
Tool-holding device	A. G. Rykert	165,124	June 29, 1875	1221	1	7	1128
Tool, Mechanical	R. H. Russell	171,176	Dec. 14, 1875	494	163	8	1023
Tooth-pick	G. S. Boice	167,733	Sept. 14, 1875	323	103	8	459
Top, Adjustable	A. Clarke	162,797	May 4, 1875	59	19	7	754
Torch	J. Benson	162,738	May 4, 1875	3	1	7	747
Torch, Policeman's	W. H. Clark, J. W. Richardson, J. Foller	160,393	Mar. 2, 1875	118	43, 44	7	366
Torch, Vapor-burning	H. Wellington	162,727	Apr. 27, 1875	1086	344	7	736
Torpedo-boat	H. F. Knapp	158,501	Jan. 5, 1875	135	45	7	28
Torpedo-envelope machine	D. J. Wolfe and G. A. Lilliendahl	167,814	Sept. 14, 1875	403	129	8	471
Torpedo-filling machine	D. J. Wolfe and G. A. Lilliendahl	159,995	Feb. 16, 1875	724	241	7	296
Torpedo, Oil-well	W. H. Harper	166,986	Aug. 24, 1875	790	244	8	336
Torpedo, Oil-well	R. S. Orsburn	166,627	Aug. 10, 1875	422	130	8	267
Torpedo, Oil-well	J. Taylor	163,952	June 1, 1875	95	32	7	944
Torsion-spring	R. Dudley	158,477	Jan. 5, 1875	112	38	7	24
Torsion-spring, Vehicle	D. E. Paris	164,202	June 8, 1875	341	116, 117	7	988
Torsional spring, Vehicle	D. E. Paris	169,032	Oct. 19, 1875	685	225, 226	8	677
Torsional spring, Vehicle	C. W. Saladee	160,549	Mar. 9, 1875	276	94	7	397
Towel-rack	J. A. Reynolds	158,739	Jan. 12, 1875	357	121	7	74
Towel-rack and wash-stand, Combined	R. P. Buttles	158,401	Jan. 26, 1875	44	16	7	15
Towel-rack, Folding	J. T. Sherwin	161,560	Mar. 30, 1875	1251	402	7	550
Towel-stand	C. Schermerhorn	163,334	May 18, 1875	593	190	7	848
Towing boats	G. Burnham	159,151	Jan. 26, 1875	782	257	7	154
Toy	C. A. Bailey	164,791	June 22, 1875	901	293	7	1080
Toy	A. E. Hotchkiss	159,928	Feb. 16, 1875	662	219	7	288
Toy	H. T. Lee	163,086	May 11, 1875	342	111	7	799
Toy	J. P. Michaels	169,620	Oct. 19, 1875	672	221	8	675
Toy	G. F. Morse	166,025	July 27, 1875	889	274	8	167
Toy	J. B. Safford	163,696	May 25, 1875	930	295	7	899
Toy	J. J. White	168,819	Oct. 11, 1875	477	156	8	640
Toy, Aerial	P. B. Fernandez	161,771	Apr. 6, 1875	155	54	7	591
Toy arrow-shooter	J. H. Wales	160,369	Mar. 2, 1875	99	36	7	363
Toy, Automatic	R. J. Clay	158,781	Jan. 19, 1875	415	139	7	98
Toy, Automatic	E. R. Ives and J. W. Pilkington	169,547	Nov. 2, 1875	207	69	8	763
Toy, Automaton	D. K. Hatfield	160,187	Feb. 23, 1875	907	299	7	329
Toy, Balancing	F. Markoe	167,771	Sept. 14, 1875	364	115	8	465
Toy-ball, Bell-metal	J. C. Clark	169,419	Nov. 2, 1875	91	28	8	747
Toy, Bell	F. Arnold	164,790	June 22, 1875	991	293	7	1080
Toy-block, Arithmetical	J. C. Smith	167,030	Aug. 24, 1875	830	259	8	342
Toy bubble-pipe	F. W. Pease	158,435	Jan. 5, 1875	70	25	7	19
Toy building-block	G. H. Chinnock	168,229	Sept. 28, 1875	811	257	8	544
Toy building-block	E. U. Kinsey	169,709	Nov. 9, 1875	390	123	8	794
Toy building-block	L. Schmetzer	171,533	Dec. 28, 1875	867	284	8	1089
Toy, Cartesian	A. Demuth	163,851	June 1, 1875	15	5	7	932
Toy cartridge-exploder	J. B. McHarg	159,107	Jan. 26, 1875	745	245	7	148
Toy chromatope	T. J. W. Robertson	165,123	June 29, 1875	1220	393	7	1129
Toy chromatope	R. Steel and T. P. McCadden	170,603	Nov. 30, 1875	1272	400	8	934
Toy confectionery, Machine for making	J. Goucher	158,934	Jan. 19, 1875	562	186	7	116
Toy cup and ball	C. H. Bass	163,294	May 18, 1875	553	177	7	843
Toy-dancer	E. C. Barton	162,994	May 11, 1875	259	83	7	789
Toy-dancer	W. L. Hubbell	159,325	Feb. 2, 1875	81	27	7	195
Toy, Dancing	B. D. De Forest	171,216	Dec. 21, 1875	561	185	8	1040
Toy, Electric	W. J. Decker	164,723	June 22, 1875	845	274	7	1072

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Toy figure, Articulated	G. H. Chinnock	168,230	Sept. 28, 1875	812	258	8	544
Toy fire-arm	E. T. Starr	160,965	Mar. 16, 1875	665	217	7	457
Toy furniture	E. P. Woods	161,083	Mar. 23, 1875	778	256	7	481
Toy gun	B. De Long	159,502	Feb. 9, 1875	259	84	7	228
Toy gun	W. H. Martin	163,673	May 25, 1875	911	290	7	897
Toy gun	J. B. McHarg	163,023	May 11, 1875	283	92	7	792
Toy gun	C. A. Pilinsky	171,316	Dec. 21, 1875	650	213	8	1052
Toy gun	S. J. Shaw and H. E. Smith	162,110	Apr. 13, 1875	466	154	7	644
Toy gun	W. Wiedemann and L. Lindsey	159,003	Jan. 19, 1875	628	208	7	125
Toy gun and horn	L. Duvall	169,427	Nov. 2, 1875	98	30	8	748
Toy gymnast	W. L. Hubbell	161,963	Apr. 13, 1875	339	114	7	628
Toy hoop or trundle	S. D. C. Langley	166,931	Apr. 24, 1875	735	227	8	329
Toy hoop or trundle	W. W. Wilcox	166,441	Aug. 3, 1875	243	74	8	233
Toy, Mechanical	H. Mencke	158,430	Jan. 5, 1875	66	23, 24	7	18
Toy money-box	A. Feigl	166,978	Aug. 24, 1875	783	241	8	335
Toy money-box	R. Frisbie	164,083	June 8, 1875	240	82	7	974
Toy money-box	J. Hall	159,263	Feb. 2, 1875	21	7	7	187
Toy money-box	J. Hall	162,747	May 4, 1875	11	4	7	748
Toy, Paper	W. H. Backus	160,994	Mar. 23, 1875	699	230	7	471
Toy pistol	T. J. Carroll	170,662	Dec. 7, 1875	8	3	8	952
Toy pistol	T. Case	161,326	Mar. 30, 1875	1028	334	7	521
Toy pistol	R. W. Churchill	164,521	June 15, 1875	651	211	7	1037
Toy pistol	G. W. Eddy	170,439	Nov. 30, 1875	1116	351	8	914
Toy pistol	A. E. Taylor	162,258	Apr. 20, 1875	620	202	7	670
Toy pistol, &c	E. Savoral	171,430	Dec. 21, 1875	753	248	8	1066
Toy spring-gun	O. R. Voorhees	168,812	Oct. 11, 1875	470	153	8	639
Toy store	E. Durlach	166,755	Aug. 17, 1875	559	172	8	295
Toy table	G. H. Burke	168,317	Oct. 5, 1875	3	1	8	565
Toy target	J. Pozmauski	169,580	Nov. 2, 1875	240	78	8	767
Toy torpedoes, Machine for making	T. H. Spear	165,960	July 27, 1875	827	254	8	158
Toy trundle	W. E. Leonard	160,021	Feb. 23, 1875	769	254	7	309
Toy trundle	J. F. Robertson	171,045	Dec. 14, 1875	364	121	8	1006
Toy trundle and bell	W. F. Starr	170,912	Dec. 7, 1875	227	78	8	981
Toy wagon	F. W. Porter	164,390	June 15, 1875	534	175	7	1022
Toy watch	P. Bonfils	162,020	Apr. 13, 1875	383	128	7	633
Toy watches and chains, Manufacture of sugar	G. Arend	168,443	Oct. 5, 1875	108	37	8	581
Toy whistle	H. B. King	167,672	Sept. 14, 1875	270	84	8	451
Toy wind-wheel	W. G. Fischer	158,694	Jan. 12, 1875	319	108	7	69
Toy wind-wheel	J. Jamouneau	160,019	Feb. 23, 1875	767	253	7	309
Trace-carrier	G. Thornton	168,856	Oct. 19, 1875	522	171	8	654
Trace-carrier	W. H. Townsend	166,322	Aug. 3, 1875	125	39	8	217
Trace carrier and back-loop, Spring	W. Davis	163,641	May 25, 1875	888	280	7	894
Trace carrier, Harness	E. A. Cooper	166,685	Aug. 17, 1875	495	151	8	286
Trace-coupling	H. G. Brown	169,888	Nov. 16, 1875	582	180	8	825
Trace-fastener	C. Robinson	163,532	May 18, 1875	775	246	7	871
Trace-fastener	W. Wells	164,950	June 29, 1875	1073	345	7	1108
Trace-fastening	J. K. Lake and B. McDevitt	171,232	Dec. 21, 1875	575	189	8	1042
Track-clearer	A. Blackford and G. McMullen	159,632	Feb. 9, 1875	365	122	7	243
Track-clearer	J. Doman	169,241	Oct. 26, 1875	894	291	8	714
Track-clearer	G. P. W. Ray	169,844	Nov. 9, 1875	528	165	8	810
Track-clearer	S. G. Smith	163,893	June 1, 1875	48	16	7	937
Track-clearer	C. G. Waterbury	161,718	Apr. 6, 1875	107	38	7	584
Track closer, Railway	I. N. Haines	163,066	May 11, 1875	327	106	7	797
Track-lifter	G. W. Hunter	168,255	Sept. 28, 1875	837	267	8	547
Track-lifting lever	W. H. Hargis	168,742	Oct. 11, 1875	411	134	8	631
Traction-engine	W. C. Luce	158,595	Jan. 12, 1875	233	78	7	56
Traction-engine	W. H. Milliken	163,681	May 25, 1875	917	291	7	898
Traction-engine, Differential gear for	J. B. Annin	168,955	Oct. 19, 1875	611	203	8	667
Traction-wheel	W. O. M. Berry	168,866	Oct. 19, 1875	531	174	8	655
Tram-staff	S. B. Williams	164,355	June 8, 1875	492	162	7	1007
Tram-stick	J. R. Beyer	166,746	Aug. 17, 1875	553	170	8	294
Tramway clip, Rope	E. Olsen	168,522	Oct. 5, 1875	185	59	8	590
Transit	S. Holton	165,828	July 20, 1875	690	211	8	127
Transom, Door	J. Berndt	164,794	June 22, 1875	903	294	7	1080
Transplanter	W. E. Johnson and J. C. Bowman	169,445	Nov. 2, 1875	112	36	8	750
Transplanting-box	P. Eby	160,088	Feb. 23, 1875	821	271	7	317
Trap:							
See Air and water trap.	Sewer-trap.						
Animal-trap.	Sewer-inlet trap.						
Bed-bug trap.	Sheet-metal trap.						
Cast lead trap.	Steam-trap.						
Fly-trap.	Steam-pipe trap.						
Fly or insect trap.	Stench-trap.						
Hog-trap.	Waste-pipe trap.						
Moth-trap.	Water-pipe trap.						
Trap and bend							
Traps, Water-supply and vent for							
Traveling-bag							
Traveling-bag and chair, Combined							
Traveling-can							
Trawl-roller							
Tray, Beer-glasses, &c							
Tray, Cigar-box							
Tray, Cigar-box							
Treadle							
Treadle							
Treadle							
Treadle, Foot							
Treadle, Machinery							
Treadles, Clutch-mechanism for operating							
Tree:							
See Boot-tree.	Single-tree.						
Harness-tree.	Whiffletree.						
Saddle-tree.							
Tree-box	E. Russell	165,455	July 13, 1875	327	96	8	60

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Tree-felling device.....	C. C. Curtis	162,534	Apr. 27, 1875	901	288	7	713
Tree-protector.....	R. F. Williams	165,776	July 20, 1875	632	194	8	120
Trellis.....	T. L. Buell	159,300	Feb. 2, 1875	51	19	7	192
Trellis, Garden.....	I. Goodspeed	166,766	Aug. 17, 1875	569	175	8	297
Trellis, Grape-vine.....	T. S. Seabury	170,025	Nov. 16, 1875	695	219	8	841
Trestle, Builder's.....	M. M. Lucky	159,337	Feb. 2, 1875	90	31	7	196
Trimmer: <i>See</i> Finger-nail trimmer. Lamp-trimmer. Heel-trimmer. Sole-edge trimmer. Hoof-trimmer. Wick-trimmer.							
Trimming.....	J. T. Ross.....	161,552	Mar. 30, 1875	1244	400	7	549
Trough: <i>See</i> Coal-cart trough. Ice-box drip-trough. Eave-trough.							
Trowel, Plasterer's.....	C. Diaston	162,355	Apr. 20, 1875	708	230	7	681
Trowels, Manufacture of.....	J. C. Richardson	164,331	June 8, 1875	463	153 154	7	1004
Truck.....	W. A. Estes.....	171,367	Dec. 21, 1875	695	229	8	1058
Truck.....	J. Viall, J. F. Townsend, and D. W. Hill.	171,451	Dec. 21, 1875	770	254	8	1068
Truck and stand, Brick.....	W. E. Gard	158,583	Jan. 12, 1875	220	75	7	55
Truck, Baggage.....	T. W. Porter	162,190	Apr. 20, 1875	555	182	7	662
Truck, Brick-yard.....	E. Noonan	163,393	May 18, 1875	645	206	7	855
Truck, Car.....	J. A. Anderson	158,563	Jan. 12, 1875	202	69	7	53
Truck, Car.....	R. Bañolas	167,294	Aug. 31, 1875	1092	343	8	386
Truck, Car.....	J. M. Brosius	159,385	Feb. 2, 1875	128	45	7	202
Truck, Car.....	C. H. Cox	167,307	Aug. 31, 1875	1102	347	8	388
Truck, Car.....	C. W. Mansfield.....	164,651	June 22, 1875	777	254	7	1063
Truck, Car.....	R. McNulty	167,405	Sept. 7, 1875	24	7	8	410
Truck, Car.....	R. McNulty	167,406	Sept. 7, 1875	24	7	8	410
Truck, Car.....	W. Swarthout	161,989	Apr. 13, 1875	359	121	7	630
Truck, Car.....	R. C. Wright	159,625	Feb. 9, 1875	361	120	7	242
Truck for carrying rails, axles, &c.....	C. W. Carter	167,222	Aug. 31, 1875	1032	320	8	377
Truck for moving rails, &c.....	C. W. Carter	167,221	Aug. 31, 1875	1031	320	8	377
Truck for street-railway cars.....	H. C. Bull	159,070	Jan. 26, 1875	711	234	7	144
Truck, Hand.....	N. Adams	169,883	Nov. 10, 1875	578	179	8	825
Truck, Hand.....	H. H. Baltzly	167,151	Aug. 31, 1875	970	301 302	8	369
Truck, Hand.....	J. Biggerstaff	169,617	Nov. 9, 1875	292	94	8	781
Truck, Hand.....	P. Lugenbell	169,559	Nov. 2, 1875	219	72	8	764
Truck, Hand.....	H. Parker	161,436	Mar. 30, 1875	1131	365	7	54
Truck, Hand.....	B. L. Pratt	166,140	July 27, 1875	1002	308	8	183
Truck, Hand.....	H. M. Underwood.....	158,610	Jan. 12, 1875	243	82	7	58
Truck, Hook and ladder.....	J. A. Kley and V. H. Higgins.....	166,112	July 27, 1875	972	299 300	8	179
Truck, Railway-car.....	A. Gilman	160,821	Mar. 16, 1875	544	176	7	441
Truck, Railway-car.....	J. Turner	158,760	Jan. 12, 1875	372	127	7	76
Trucks, Guide-wheel for car.....	T. H. Lane	163,215	May 11, 1875	460	149	7	815
Trunk.....	J. A. House	171,618	Dec. 23, 1875	961	311	8	1102
Trunk.....	J. W. Krepps	167,343	Aug. 31, 1875	1135	357	8	392
Trunk.....	A. V. Romadka	167,024	Aug. 24, 1875	826	257	8	342
Trunk.....	A. V. Romadka	169,296	Oct. 26, 1875	948	307	8	721
Trunk.....	H. Vogler	168,544	Oct. 5, 1875	208	68	8	593
Trunk-corner clamp.....	W. B. Gould	171,374	Dec. 21, 1875	700	231	8	1059
Trunk-fastener.....	A. Frankel	159,085	Jan. 26, 1875	725	240	7	146
Trunk, &c., fastener.....	J. Hall	165,820	July 20, 1875	683	208	8	126
Trunk-fastener.....	A. V. Romadka	163,028	May 11, 1875	292	94	7	793
Trunk-fastening.....	R. Hilton	168,566	Oct. 11, 1875	251	82	8	607
Trunk-fastening.....	J. F. Simpson	168,677	Oct. 11, 1875	351	115	8	622
Trunk-fastening.....	L. W. Valance	161,914	Apr. 13, 1875	297	100	7	622
Trunk-lock hasp.....	F. W. Mix	163,230	May 11, 1875	475	154	7	816
Trunk spring-buffer.....	E. N. Geer	163,863	June 1, 1875	24	8	7	934
Trunk-stay.....	H. L. Andrews.....	164,124	June 8, 1875	274	93	7	979
Trunk-stay.....	M. A. Waas	167,809	Sept. 14, 1875	399	128	8	470
Trunk-strap.....	G. E. Albee	166,058	July 27, 1875	918	283	8	171
Trunk, Traveling.....	W. D. Coit	159,248	Feb. 2, 1875	7	2	7	185
Truss.....	S. Ayres	168,957	Oct. 19, 1875	613	203	8	668
Truss.....	S. M. Bayard	170,466	Nov. 30, 1875	1140	359	8	917
Truss.....	H. Becker	167,818	Sept. 21, 1875	419	133	8	481
Truss.....	J. N. Bell	167,977	Sept. 21, 1875	548	176	8	501
Truss.....	S. L. Hockert	168,492	Oct. 5, 1875	154	51	8	587
Truss.....	H. Howe	161,233	Mar. 23, 1875	921	301	7	500
Truss.....	J. G. Jado	166,529	Aug. 10, 1875	337	103	8	254
Truss.....	H. A. Kimball	170,273	Nov. 23, 1875	951	297	8	882
Truss.....	D. King	161,686	Apr. 6, 1875	84	29	7	581
Truss.....	L. T. Lubin	168,264	Sept. 28, 1875	844	269	8	549
Truss.....	F. Norris and C. E. Sweet	169,833	Nov. 29, 1875	515	161	8	809
Truss.....	F. G. Otto	170,106	Nov. 16, 1875	775	245	8	851
Truss.....	J. L. Rowe	161,555	Mar. 30, 1875	1246	401	7	550
Truss.....	M. Turley	165,133	June 29, 1875	1227	395	7	1130
Truss.....	J. M. Zirkle	162,990	May 4, 1875	241	77	7	779
Truss-pad.....	I. N. Foote	171,473	Dec. 28, 1875	808	266	8	1082
Tub: <i>See</i> Bath-tub. Butter-tub.							
Tube: <i>See</i> Boiler-tube. Sheet-metal tube. Iron tube. Smoking-tube. Metallic tube. Soldering-tube. Paper tube. Speaking-tube. Radiator-tube. Steam-boiler fire-tube. Railway, post, &c., tube.							
Tube, &c., bending machine.....	M. McWilliams	171,402	Dec. 21, 1875	731	240	8	1062
Tube-cleaner.....	J. Williams	168,072	Sept. 21, 1875	654	208	8	515
Tube-expander.....	P. Fitzgibbons	165,320	July 6, 1875	163	49	8	31

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Tube-expander	E. W. Flagg	166, 925	Aug. 24, 1875	729	226	8	328
Tube-heating furnace	W. L. McNair	166, 399	Aug. 3, 1875	202	60	8	227
Tube joint and coupling	G. Matheson	171, 234	Dec. 21, 1875	578	190	8	1042
Tube-skelps into and through furnaces, Device for pushing.	G. Matheson	169, 460	Nov. 2, 1875	125	40	8	752
Tube straightening and finishing roll	G. Matheson	160, 024	Feb. 23, 1875	771	{ 254 255 }	7	310
Tubing, Device for drawing and welding	G. Matheson	164, 011	June 1, 1875	144	51	7	950
Tubing, Device for finishing metallic	H. R. Benwell	170, 806	Dec. 7, 1875	137	45	8	969
Tubing, Machine for making	G. H. M. Muntz	169, 723	Nov. 9, 1875	402	127	8	795
Tubing, Machine for making welded	J. Huggins	162, 926	May 4, 1875	170	56, 57	7	769
Tubing, Manufacture of metal	D. M. Somers	167, 796	Sept. 14, 1875	384	123	8	468
Tubing, Manufacture of metal	S. W. Wood	169, 878	Nov. 9, 1875	561	175	8	815
Tubular boiler	I. Barton	169, 225	Oct. 26, 1875	881	288	8	712
Tabular boiler, Upright	N. C. Heaton	171, 017	Dec. 14, 1875	343	114	8	1003
Tuck-creaser	H. C. Goodrich	162, 227	Apr. 20, 1875	592	194	7	667
Tuck-marker	R. G. Bush	170, 154	Nov. 23, 1875	845	264	8	868
Tuck-marker	H. C. Goodrich	162, 225	Apr. 20, 1875	590	193	7	667
Tuck-marker	H. C. Goodrich	162, 226	Apr. 20, 1875	591	194	7	667
Tug, Harness	B. S. Leonard	170, 382	Nov. 23, 1875	1045	328	8	895
Tug-slide	D. W. Leeka	167, 344	Aug. 31, 1875	1136	357	8	392
Tumbling-rod cover	J. B. Hutchinson	169, 706	Nov. 9, 1875	388	122	8	792
Tunnel	O. B. Dowd	168, 146	Sept. 28, 1875	743	234	8	534
Tunneling-machine	O. B. Dowd	167, 442	Sept. 7, 1875	56	17	8	414
Turbine wheel	T. H. Clark	169, 148	Oct. 26, 1875	814	264	8	702
Turbine wheels, Casting	G. H. Jones	165, 237	July 6, 1875	87	26	8	21
Turkish and vapor bath, Combined	H. S. Firman	160, 412	Mar. 2, 1875	138	49	7	368
Turn-buckle	G. H. Spencer	161, 832	Apr. 6, 1875	213	71	7	599
Turn-buckles, Manufacture of	M. Merrill	166, 286	Aug. 3, 1875	94	29	8	212
Turn-table	S. M. Carpenter	162, 741	May 4, 1875	6	3	7	747
Turn-table	H. F., G. S., and A. Snyder	163, 033	May 11, 1875	297	96	7	793
Turning irregular forms, Machine for	B. H. Connor	158, 629	Jan. 12, 1875	259	88	7	61
Turpentine-pan	W. W. Clements	161, 754	Apr. 6, 1875	142	49	7	589
Tuyere	F. Bolender	169, 947	Nov. 16, 1875	633	197	8	832
Tuyere	H. J. Chandler	170, 234	Nov. 23, 1875	917	285	8	877
Tuyere	F. Krein and H. Franck	163, 211	May 11, 1875	457	148	7	814
Tuyere	F. H. Lloyd	166, 617	Aug. 10, 1875	412	{ 127 128 }	8	266
Tuyere	P. H. Standish	170, 313	Nov. 23, 1875	985	308	8	887
Tuyere, Blacksmith's	V. R. Taylor	161, 993	Apr. 13, 1875	362	122	7	631
Tuyeres, Machine for making	E. J. Mildren	167, 850	Sept. 21, 1875	448	142	8	485
Twine-cutter	C. P. Ellis	159, 168	Jan. 26, 1875	796	261	7	155
Twine-cutter, letter-opener, and stamp-moistener, Combined.	J. Eitel	170, 719	Dec. 7, 1875	60	18	8	958
Twine-holder	J. Hill	161, 683	Apr. 6, 1875	82	29	7	581
Twist-drill-making machine	L. Weaver and T. Decker	164, 115	June 8, 1875	267	91	7	978
Twist-drills, Manufacturing	C. B. Hunt	167, 766	Sept. 14, 1875	360	114	8	464
Twisting-machine	J. Capstack	171, 548	Dec. 28, 1875	881	288	8	1092
Type	A. M. Howard	166, 205	Aug. 3, 1875	20	7	8	202
Type-case, Printer's	L. A. Martin	162, 084	Apr. 13, 1875	438	146	7	640
Type casting and setting machine	C. S. Westcott	169, 215	Oct. 26, 1875	866	{ 282 283 284 285 }	8	710
Type casting and setting machine	C. S. Westcott	169, 216	Oct. 26, 1875	869	{ 283 284 285 }	8	711
Type-casting matrices, Making	G. Greene	160, 423	Mar. 2, 1875	148	52	7	370
Type-machine	A. M. Howard	169, 701	Nov. 9, 1875	384	120	8	793
Type-setting machine	R. T. P. Allen	167, 726	Sept. 14, 1875	316	101	8	458
Type-setting machine	J. Hooker	170, 372	Nov. 23, 1875	1032	{ 324 325 }	8	894
Type-setting machine	A. Millar	168, 044	Sept. 21, 1875	617	198	8	510
Type-setting machine	W. D. C. Pattysen	166, 549	Aug. 10, 1875	352	{ 108 109 }	8	257
Type-setting machine	A. C. Richards	164, 037	June 1, 1875	171	60, 61	7	954
Type-setting machine	A. C. Richards	170, 593	Nov. 30, 1875	1263	{ 397 398 }	8	933
Type-setting machine	D. B. Thompson	168, 591	Oct. 11, 1875	275	89	8	610
Type-wheel	G. H. Morgan	171, 408	Dec. 21, 1875	736	{ 241 242 }	8	1063
Type-writers, Scale for	W. C. Johnson	166, 465	Aug. 10, 1875	286	85	8	247
Type-writing machine	M. Alissoff	169, 757	Nov. 9, 1875	440	{ 139 140 }	8	800
Type-writing machine	R. T. P. Allen	171, 335	Dec. 21, 1875	666	220	8	1054
Type-writing machine	W. H. Case	170, 233	Nov. 23, 1875	916	285	8	877
Type-writing machine	L. S. Crandall	170, 239	Nov. 23, 1875	922	287	8	878
Type-writing machine	P. Deming	170, 621	Nov. 30, 1875	1289	407	8	937
Type-writing machine	R. M. J. Hansen	168, 898	Oct. 19, 1875	556	182	8	659
Type-writing machines, Frisket for	W. C. Johnson	171, 139	Dec. 14, 1875	462	151	8	1019
U.							
Umbrella	J. J. Eubank	160, 407	Mar. 2, 1875	132	47	7	368
Umbrella	G. W. Francis	166, 980	Aug. 24, 1875	784	242	8	336
Umbrella	G. G. Griswold	165, 093	June 29, 1875	1193	384	7	1125
Umbrella	I. R. Hayes and J. Somerset	162, 917	May 4, 1875	163	53	7	768
Umbrella	W. D. Horton	161, 962	Apr. 13, 1875	338	{ 113 114 }	7	628
Umbrella	H. Martin	160, 214	Feb. 23, 1875	932	306	7	332
Umbrella	H. B. Mitchell	162, 570	Apr. 27, 1875	929	298	7	717
Umbrella	U. G. Steinmetz	158, 994	Jan. 19, 1875	620	206	7	124
Umbrella	W. Tetley	159, 230	Jan. 26, 1875	858	280	7	164
Umbrella	J. G. Widman	166, 439	Aug. 3, 1875	241	74	8	233
Umbrella, Cane	W. E. Engelhardt	168, 628	Oct. 11, 1875	311	101	8	616
Umbrella, Folding	A. M. Alexander	164, 121	June 8, 1875	271	93	7	979
Umbrella, Folding	U. G. Steinmetz	163, 821	May 25, 1875	1036	328	7	914
Umbrella-handle	E. Layman	160, 603	Mar. 9, 1875	324	109	7	404

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Umbrella-handle	H. G. Mackinney	165, 106	June 29, 1875	1207	388	7	1127
Umbrella-handle	L. Schneider	164, 220	June 8, 1875	355	122	7	990
Umbrella, parasol, &c., handle	G. W. Tucker	160, 627	Mar. 9, 1875	343	116	7	407
Umbrella-rib	H. Winter	159, 624	Feb. 9, 1875	360	120	7	242
Umbrella-rib-tip holder	A. S. Hubble	161, 791	Apr. 6, 1875	171	59	7	594
Umbrella-ribs, Method of softening	J. McAuliffe	160, 110	Feb. 23, 1875	843	277	7	320
Umbrella-runner	G. E. Bringman	163, 146	May 11, 1875	396	128	7	806
Umbrella-runner	J. M. Burkert	169, 084	Oct. 26, 1875	754	246	8	694
Umbrella-runner	H. S. Frost	168, 892	Oct. 19, 1875	551	180	8	659
Umbrella-stand	W. H. Hovey	164, 362	June 8, 1875	439	145	7	1001
Umbrella-stand	L. E. Ladd	160, 339	Mar. 2, 1875	75	26	7	359
Umbrella-stand	C. A. Lawrence	171, 521	Dec. 28, 1875	858	280	8	1088
Umbrella-support	R. J. Welles	162, 726	Apr. 27, 1875	1086	344	7	736
Umbrella-support, Vehicle	A. Clarke	159, 795	Feb. 16, 1875	543	180	7	272
Umbrella-support, Vehicle	A. J. Hood	162, 533	Apr. 27, 1875	915	293	7	715
Umbrella-tip cup	F. S. Brown	167, 429	Sept. 7, 1875	47	14	8	412
Umbrella-tip cup	H. Winter	171, 076	Dec. 14, 1875	398	132	8	1011
Umbrella-tip retainer	V. Montalbetti	159, 438	Feb. 2, 1875	178	61	7	209
Umbrella-tips, Casting	A. Ligibel	166, 282	Aug. 3, 1875	91	28	8	212
Umbrella-top, Carriage	L. P. Tibbals	169, 599	Nov. 2, 1875	260	84	8	769
Universal joint	R. T. Smith	163, 338	May 18, 1875	597	191	7	849
Universal joint and clamp	T. J. Carrick	167, 603	Sept. 14, 1875	212	66	8	443
Upholstering apparatus	C. F. A. Siercks	162, 501	Apr. 27, 1875	874	279	7	710
Upholstering, Process for preparing vegetable fiber for.	J. S. Cutter	171, 357	Dec. 21, 1875	687	226	8	1057
Upsetting metallic bars and rods, Machine for	E. Kaylor	164, 459	June 15, 1875	602	195	7	1031
Uterine supporter	G. Bennett and F. E. Parsons	158, 891	Jan. 19, 1875	518	173	7	111
Uterine supporter	J. S. Shannon	167, 199	Aug. 31, 1875	1012	315	8	374
V.							
Valise, &c., corner cap	G. Crouch	160, 168	Feb. 23, 1875	893	294	7	327
Valise-handle attachment	G. O. Monroe	167, 011	Aug. 24, 1875	817	254	8	340
Valve	E. H. Beckwith	169, 510	Nov. 2, 1875	169	56	8	758
Valve	H. S. Lansdell and J. S. Leug	162, 178	Apr. 20, 1875	546	179	7	661
Valve	W. Painter	168, 775	Oct. 11, 1875	438	142	8	634
Valve	W. Painter	168, 776	Oct. 11, 1875	439	143	8	635
Valve	G. T. Taylor	168, 808	Oct. 11, 1875	466	152	8	638
Valve, Air-brake	C. H. Perkins	163, 242	May 11, 1875	486	158	7	818
Valve and box for air-compressors	G. H. Reynolds and J. Miller	165, 120	June 29, 1875	1217	392	7	1128
Valve and cut-off, Balanced	G. W. Hall	171, 125	Dec. 14, 1875	448	147	8	1017
Valve and overflow for baths and basins, Waste	W. S. Carr	170, 709	Dec. 7, 1875	52	16	8	957
Valve and overflow-pipe, Combined cistern	B. McGrann and J. Solis	167, 265	Aug. 31, 1875	1067	333	8	382
Valve and valve-gearing, Steam-engine	J. A. Prince	165, 687	July 20, 1875	553	168	8	109
Valve attachment for steam-cylinders, Automatic air.	J. N. Lauder	169, 452	Nov. 2, 1875	117	37	8	751
Valve, Automatic relief	L. D. Shaw	159, 045	Jan. 26, 1875	689	227	7	141
Valve, Balanced	J. F. Allen	167, 865	Sept. 21, 1875	463	146	8	487
Valve, Balanced	W. C. Church	166, 848	Aug. 17, 1875	638	199	8	307
Valve, Balanced	J. A. Hutchison	160, 327	Mar. 2, 1875	64	23	7	358
Valve, Balanced	G. Mossop	167, 462	Sept. 7, 1875	72	22	8	416
Valve, Balanced and cut-off	J. W. Thompson	162, 714	Apr. 27, 1875	1068	340	7	734
Valve box, Engine	H. W. Adams	170, 149	Nov. 23, 1875	840	263	8	867
Valve, Check	W. H. H. Bowers	160, 869	Mar. 16, 1875	581	189	7	446
Valve, Check	H. G. Johnson	167, 255	Aug. 31, 1875	1060	330	8	381
Valve, Combined globe and check	I. W. Brown	161, 002	Mar. 23, 1875	705	233	7	472
Valve, Combined steam and cut-off	A. J. L. Loretz	169, 911	Nov. 16, 1875	600	187	8	828
Valve, Compound-engine	S. B. Greacen	161, 779	Apr. 6, 1875	161	56	7	592
Valve, Compound-engine	W. Wright	162, 513	Apr. 27, 1875	883	282	7	711
Valve, Cylinder relief	E. Walters	159, 483	Feb. 2, 1875	229	74	7	216
Valve, Cylinder relief	W. Westwater	170, 974	Dec. 14, 1875	307	102	8	999
Valve, Engine	J. Bulger, jr.	159, 388	Feb. 2, 1875	130	45	7	202
Valve, Engine	G. M. Githens	161, 025	Mar. 23, 1875	726	239	7	475
Valve for air and steam brake cylinders, Relief	L. P. Rider and W. H. Shillito	160, 715	Mar. 9, 1875	422	140	7	418
Valve for air-compressors, Check	E. S. Winchester	161, 999	Apr. 13, 1875	366	123	7	631
Valve for dip-pipes, Rotary	W. Farmer	167, 606	Sept. 14, 1875	214	67	8	443
Value for gas-machines, Automatic check	T. Van Kannel and L. D. Towsley.	169, 746	Nov. 9, 1875	430	136	8	798
Valve for gas-machines, Automatic mixing	L. D. Towsley	165, 188	July 6, 1875	47	14	8	15
Valve for gas-purifiers, Center	R. Briggs	163, 569	May 25, 1875	821	260	7	885
Valve for ships, Bilge-water	J. W. Hughes	166, 526	Aug. 10, 1875	334	102	8	254
Valve for street water-mains	J. Bird	160, 640	Mar. 9, 1875	354	119	7	409
Valve for water-pipes, Vacuum relief	P. Hinkle	161, 121	Mar. 23, 1875	819	268	7	486
Valve, Gate	E. Russell	166, 032	July 27, 1875	894	276	8	168
Valve-gear	F. H. Ball	161, 195	Mar. 23, 1875	880	229	7	495
Valve-gear	H. J. Behrens	168, 215	Sept. 28, 1875	800	255	8	542
Valve-gear	W. L. Newsham	164, 865	June 22, 1875	977	316	7	1089
Valve-gear	G. E. Tower	165, 186	July 6, 1875	43	13	8	15
Valve-gear	F. Waunick and H. Koepfner	164, 618	June 15, 1875	733	239	7	1049
Valve-gear, Reversible	N. E. Nash	165, 682	July 20, 1875	548	167	8	108
Valve-gear, Steam-engine	C. A. Amerman	164, 123	June 8, 1875	273	93	7	979
Valve-gear, Steam-engine	C. H. Breed	171, 500	Dec. 28, 1875	840	275	8	1086
Valve-gear, Steam-engine	J. L. Hewes	164, 736	June 22, 1875	856	278	7	1074
Valve-gear, Steam-engine	J. A. Hutchison and J. W. Govier	164, 456	June 15, 1875	598	194	7	1030
Valve-gear, Steam-engine	H. E. Marchand	163, 090	May 11, 1875	346	113	7	800
Valve-gear, Steam-engine	G. H. Reynolds	162, 101	Apr. 13, 1875	453	151	7	642
Valve-gear, Steam-engine	J. W. Thompson	162, 715	Apr. 27, 1875	1069	349	7	734
Valve-gear, Steam-engine	G. Westinghouse, jr.	159, 782	Feb. 16, 1875	528	176	7	270
Valve, Globe	H. P. Buffon	165, 537	July 13, 1875	401	120	8	71
Valve, Globe	N. C. Lock	169, 817	Nov. 9, 1875	502	158	8	807
Valve, Globe	F. Lunkenheimer	166, 393	Aug. 3, 1875	195	58	8	226
Valve, Globe	J. Moffet	167, 010	Aug. 24, 1875	817	253	8	340

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Valve-grinder	L. P. Law	168,262	Sept. 28, 1875	843	269	8	549
Valve, Hydrant	H. James	171,138	Dec. 14, 1875	460	151	8	1019
Valve, Hydraulic-cushion	C. E. Emery	171,218	Dec. 21, 1875	563	185	8	1040
Valve-indicator	J. S. Wallace	171,071	Dec. 14, 1875	393	130	8	1010
Valve, Lift-pump	F. A. Ruhl	167,125	Aug. 24, 1875	921	287	8	355
Valve, Lock-up safety	E. B. Kunkle	162,831	May 4, 1875	86	29	7	758
Valve-movement, Rock-drill	D. Kennedy	163,785	May 25, 1875	1005	319	7	910
Valve, Oscillating balanced	A. W. Eldredge	167,754	Sept. 14, 1875	346	110	8	462
Valve, Oscillating steam	H. P. Jones	163,497	May 18, 1875	741	235 236	7	857
Valve, Plug	T. Shaw	162,773	May 4, 1875	36	11	7	751
Valve, Pneumatic pump	W. B. Chisholm	167,604	Sept. 14, 1875	213	66	8	443
Valve, Power-brake air	G. Westinghouse, jr.	168,359	Oct. 5, 1875	35	13, 14	8	569
Valve, Pump	R. V. and T. B. Bailey	162,598	Apr. 27, 1875	952	306	7	720
Valve, Pump	F. Hubbard and W. A. Hart	170,737	Dec. 7, 1875	76	24	8	960
Valve, Pump	T. Maguire	167,550	Sept. 7, 1875	150	46	8	427
Valve, Pump air	S. Smith and I. S. Collins	163,192	Sept. 28, 1875	781	248	8	540
Valve, Pump and check	A. W. Johnson and H. A. Net- leton	164,563	June 15, 1875	687	223	7	1042
Valve, Pumping engine	W. H. Harrison	168,251	Sept. 28, 1875	834	266	8	547
Valve, Relief	G. H. Clemens	165,791	July 20, 1875	647	199	8	122
Valve, Relief	T. T. Prosser	165,119	June 29, 1875	1216	392	7	1128
Valve, Rotary balanced	C. M. Farrar	166,758	Aug. 17, 1875	562	172	8	296
Valve, Rotary reversing and cut-off	J. C. H. Stub	161,452	Mar. 30, 1875	1145	369 370	7	536
Valve, Safety	H. C. Bull	159,068	Jan. 26, 1875	709	233	7	143
Valve, Safety	G. H. Crosby	159,157	Jan. 26, 1875	787	258	7	154
Valve, Safety	G. H. Crosby	160,167	Feb. 23, 1875	892	294	7	327
Valve, Safety	S. Harrison	169,805	Nov. 9, 1875	490	154	8	806
Valve, Safety	A. Orme	160,790	Mar. 16, 1875	519	167	7	437
Valve, Safety	H. Stevens	162,502	Apr. 27, 1875	875	280	7	710
Valve, Safety	T. Walker	163,618	May 25, 1875	869	273	7	891
Valve, Safety and relief	J. W. Melling	170,757	Dec. 7, 1875	94	30, 31	8	963
Valve-seat lock	A. E. Van Horn, and J. Wide- man	162,590	Apr. 27, 1875	947	304	7	720
Valve seat, Slide	J. Wheelock	159,729	Feb. 9, 1875	458	153	7	256
Valve-seats, Device for refitting	C. F. Hall	170,363	Nov. 23, 1875	1026	322	8	893
Valve-seats, &c., Machine for dressing	N. P. Stevens	167,038	Aug. 24, 1875	835	261	8	343
Valve, Slide	V. Forquenot	161,498	Mar. 30, 1875	1198	384	7	543
Valve, Slide	J. W. Vermillion	167,140	Aug. 24, 1875	936	292	8	357
Valve, Steam	E. Cope and J. R. Maxwell	170,939	Dec. 14, 1875	270	90, 91	8	994
Valve, Steam	J. H. Corey	159,019	Jan. 26, 1875	669	218	7	137
Valve, Steam	E. H. Dewey and C. H. Palmer	161,599	Apr. 6, 1875	10	4	7	570
Valve, Steam	J. J. Grant	160,182	Feb. 23, 1875	902	297	7	329
Valve, Steam	J. Hare	161,610	Apr. 6, 1875	18	7, 8	7	571
Valve, Steam	J. Hare	166,002	July 27, 1875	868	267	8	164
Valve, Steam	J. Johnson	160,914	Mar. 16, 1875	617	202	7	451
Valve, Steam	H. E. Marchand	165,349	July 6, 1875	189	56	8	35
Valve, Steam	H. E. Marchand	165,350	July 6, 1875	190	57	8	35
Valve, Steam	G. McNaughton	159,198	Jan. 26, 1875	826	272	7	160
Valve, Steam and air brake	H. E. Marchand	163,089	May 11, 1875	345	112	7	800
Valve, Steam-boiler safety	A. M. Johnston and S. Gissinger	159,580	Feb. 9, 1875	327	198	7	237
Valve, Steam-engine	G. H. Reynolds	162,690	Apr. 27, 1875	1042	332	7	731
Valve, Steam-engine	R. Schmidt	162,196	Apr. 20, 1875	561	184	7	663
Valve, Steam-engine	G. E. Tower	165,187	July 6, 1875	45	13	8	15
Valve, Steam-engine oscillating	W. Haddock	163,651	May 25, 1875	896	284	7	895
Valve, Steam-engine slide	E. Armstrong	163,437	May 18, 1875	680	217	7	860
Valve, Steam-pumping-engine	D. J. Knowles	171,390	Dec. 21, 1875	720	237	8	1061
Valve, Steam-radiator	W. C. Baker	167,211	Aug. 31, 1875	1023	318	8	376
Valve, Steam-radiator	J. W. Faxon	164,985	June 29, 1875	1100	355	7	1112
Valve, Steam-radiator automatic	J. Elder, jr.	158,692	Jan. 12, 1875	317	108	7	68
Valve, Stop	G. W. Eddy	165,988	July 27, 1875	854	263	8	162
Valve, Stop	G. W. Eddy	166,083	July 27, 1875	943	291	8	174
Valve, Stop	J. O. Morse	165,493	July 13, 1875	361	106	8	65
Valve, Throttle	R. Blester	171,086	Dec. 14, 1875	406	134	8	1012
Valve, Throttle	R. Scheidler and J. H. McNamar	164,219	June 8, 1875	354	121	7	990
Valve, Vent	A. Chabot	163,458	May 18, 1875	698	223	7	862
Valve, Water	A. Chabot	163,457	May 18, 1875	698	223	7	862
Valve, Water-closet	E. O. Brinckerhoff	159,297	Feb. 2, 1875	48	18	7	191
Valve, Water-closet	P. D. Donnelly	167,998	Sept. 21, 1875	566	183	8	503
Valve, Water-closet	J. Farrell	160,313	Mar. 2, 1875	53	19	7	356
Valve, Water-closet	J. P. Hyde	171,514	Dec. 28, 1875	853	278	8	1087
Valve, Water-closet	E. Mills	158,646	Jan. 12, 1875	277	93	7	63
Valve, Water-closet	G. R. Moore	161,977	Apr. 13, 1875	350	117	7	629
Valve, Water-main	R. Barton	168,824	Oct. 19, 1875	495	161	8	651
Valve, Water-tank	J. Hadfield	164,645	June 22, 1875	772	253	7	1063
Valves, Device for operating throttle	P. Hinkle	167,099	Aug. 24, 1875	900	281	8	352
Valves, Operating	J. A. Ayres	163,134	May 11, 1875	385	124	7	805
Vapor-bath, Portable	G. W. Brosius	163,142	Oct. 26, 1875	810	263	8	702
Vapor bath, Portable medicating hot	R. R. Roberts	163,413	May 18, 1875	661	211	7	857
Varnish	J. L. Jenkins and A. W. Richards	171,384	Dec. 21, 1875	711	.....	8	1061
Varnish composition	S. W. Mayer, L. Loewenstein, and B. Mayer	169,714	Nov. 9, 1875	395	.....	8	794
Varnisher	M. Ziegler	163,041	May 11, 1875	304	.....	7	794
Vat: See Cheese-vat. Tan-vat.							
Vault, Burglar-proof	C. O. Yale	169,938	Nov. 16, 1875	625	194	8	831
Vault-cover	C. H. Gordon	168,982	Oct. 19, 1875	637	211	8	671
Vault-cover	J. K. Ingalls	170,567	Nov. 30, 1875	1233	388	8	930
Vault-cover	J. M. Wilbur	166,572	Aug. 10, 1875	373	115	8	200
Vault-cover	J. M. Wilbur	166,574	Aug. 10, 1875	374	115	8	260
Vault, Grave	W. C. Peckham	171,418	Dec. 21, 1875	743	244	8	1064
Vault-light	J. F. Foley	168,472	Oct. 5, 1875	134	45	8	584
Vault-light	J. M. Wilbur	166,573	Aug. 10, 1875	374	115	8	260
Vegetable-cutter	J. N. Goolsbee	163,765	May 25, 1875	988	313	7	907

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Vegetable-cutter	S. Hauck, jr.	165,229	July 6, 1875	80	24	8	20
Vegetable-cutter	S. Hauck, jr.	169,991	Nov. 16, 1875	667	209	8	837
Vegetable-cutter	J. T. Lohr	168,033	Sept. 21, 1875	605	194	8	509
Vegetable-slicer	E. Moneuse	158,803	Jan. 19, 1875	437	146	7	101
Vegetable-slicer	N. Sweetland	158,542	Jan. 5, 1875	165	57	7	32
Vegetable-slicer	A. Vuillier	159,869	Feb. 16, 1875	608	201	7	281
Vegetable-slicer	J. J. Winne and W. H. Kent.	161,849	Apr. 6, 1875	229	77	7	601
Vegetable-washer	J. Brooks	160,870	Mar. 16, 1875	582	189	7	446
Vegetable-washer	P. P. Roberts	166,146	July 27, 1875	1008	310	8	184
Vegetables, Machine for subsoiling and digging	T. L. Webster	160,489	Mar. 2, 1875	210	72	7	379
Vehicle	N. Huret	171,137	Dec. 14, 1875	460	151	8	1019
Vehicle	C. J. Walser	167,205	Aug. 31, 1875	1016	316	8	375
Vehicle-axle	E. Ball	168,208	Sept. 28, 1875	796	253	8	542
Vehicle-axle	G. Beck	169,226	Oct. 26, 1875	882	287	8	712
Vehicle-axle	S. T. Gamwell	162,375	Apr. 20, 1875	734	238	7	684
Vehicle-axle	J. McCurdy	158,855	Jan. 19, 1875	484	162	7	107
Vehicle-axle	C. W. Richardson	169,845	Nov. 9, 1875	529	165	8	810
Vehicle-bodies, Corner for	S. Acker and N. L. Robinson	164,703	June 22, 1875	827	269	7	1070
Vehicle-body corner-iron	N. L. Holmes	167,249	Aug. 31, 1875	1055	328	8	381
Vehicle bolster-plate	W. J. Lewis	161,344	Mar. 30, 1875	1044	340	7	524
Vehicle-brake	W. Fletcher	159,543	Feb. 9, 1875	304	98	7	233
Vehicle chafing-iron	G. Smith	160,793	Mar. 16, 1875	521	168	7	437
Vehicle chafing-iron	A. Wright	159,373	Feb. 2, 1875	118	41	7	200
Vehicle dash-frame	M. Seward	171,434	Dec. 21, 1875	757	249	8	1066
Vehicle-elevator	R. R. Roberts	168,784	Oct. 11, 1875	448	146	8	636
Vehicle end-gate	F. C. Brooke	166,495	Aug. 10, 1875	311	93	8	250
Vehicle end-gate	J. Heald	162,918	May 4, 1875	164	54	7	768
Vehicle end-gates, Rod for	W. J. Lewis	160,531	Mar. 9, 1875	261	89	7	395
Vehicle-fender	H. M. Curtis	160,883	Mar. 16, 1875	593	193	7	447
Vehicle-fender	N. Jackson	160,679	Mar. 9, 1875	386	131	7	413
Vehicle, Hand-propelled	W. T. and G. H. Howard	170,629	Nov. 30, 1875	1296	409	8	938
Vehicle-hood	W. H. Rowe	165,125	June 29, 1875	1222	393	7	1129
Vehicle hound-plates, Manufacture of	J. Jensen	171,287	Dec. 21, 1875	628	205	8	1049
Vehicle-runner, Attachable	I. and W. G. Pettis	169,116	Oct. 26, 1875	789	{ 255 256 }	8	698
Vehicle-runner attachment	J. A. Hyde	159,327	Feb. 2, 1875	83	28	7	195
Vehicle running-gear	J. Becker, jr.	159,630	Feb. 9, 1875	364	121	7	243
Vehicle running-gear	C. Behlen	169,616	Nov. 9, 1875	292	94	8	781
Vehicle running-gear	E. Booth	171,211	Dec. 21, 1875	557	183	8	1039
Vehicle running-gear	J. W. Little	171,293	Dec. 21, 1875	632	207	8	1049
Vehicle running-gear	C. M. Murch	168,768	Oct. 11, 1875	432	141	8	634
Vehicle running-gear	J. Stirk	159,528	Feb. 9, 1875	291	94	7	232
Vehicle-seat	J. Bond	169,948	Nov. 16, 1875	634	197	8	832
Vehicle-seat	W. H. Cloud and D. D. Craig	163,744	May 25, 1875	973	308	7	905
Vehicle-seat	E. A. Cooper	168,831	Oct. 19, 1875	500	163	8	651
Vehicle-seat	V. E. Davis	158,785	Jan. 19, 1875	418	141	7	98
Vehicle-seat	D. Ford	168,386	Oct. 5, 1875	59	21	8	573
Vehicle-seat	J. H. Franklin	170,543	Nov. 30, 1875	1212	381	8	927
Vehicle-seat	J. R. Hill	165,331	July 6, 1875	171	52	8	32
Vehicle-seat	R. Rakestraw	162,310	Apr. 20, 1875	665	217	7	676
Vehicle seat and body	E. W. Anderson	158,822	Jan. 19, 1875	454	{ 151 152 }	7	103
Vehicle-seat lock	D. Argerbright	163,436	May 18, 1875	679	217	7	859
Vehicle side bar	J. W. Coe and D. Merritt	159,302	Feb. 2, 1875	53	20	7	192
Vehicle side spar	E. Chamberlin	167,067	Aug. 24, 1875	867	270	8	347
Vehicle side spar	B. C. Shaw	167,028	Aug. 24, 1875	829	258	8	342
Vehicle side spring	D. M. Lane	158,949	Jan. 19, 1875	575	190	7	118
Vehicle sled-runner	T. W. Porter	161,985	Apr. 13, 1875	356	120	7	630
Vehicle-spring	C. Bauer	166,060	July 27, 1875	918	284	8	171
Vehicle-spring	W. Beers	168,128	Sept. 28, 1875	722	228	8	531
Vehicle-spring	E. Chamberlin	167,066	Aug. 24, 1875	866	270	8	347
Vehicle-spring	E. Chamberlin	167,068	Aug. 24, 1875	867	270	8	347
Vehicle-spring	B. J. Corey and E. Neff	169,524	Nov. 2, 1875	181	60	8	759
Vehicle-spring	F. F. Doland and F. Scherb	165,218	July 6, 1875	72	21	8	19
Vehicle-spring	S. C. Foster	165,441	July 13, 1875	312	92	8	58
Vehicle-spring	S. Gilzinger	169,254	Oct. 26, 1875	908	295	8	716
Vehicle-spring	S. Gilzinger	169,255	Oct. 26, 1875	909	295	8	716
Vehicle-spring	M. Gluck	167,892	Sept. 21, 1875	485	153	8	490
Vehicle-spring	G. F. Godley	162,165	Apr. 20, 1875	534	{ 175 176 }	7	660
Vehicle-spring	H. A. Hight	169,808	Nov. 9, 1875	492	155	8	806
Vehicle-spring	C. Hotz	163,072	May 11, 1875	331	108	7	798
Vehicle-spring	H. Jeffrey	166,780	Aug. 17, 1875	581	179	8	298
Vehicle-spring	C. Nielsen	166,291	Aug. 3, 1875	98	30	8	213
Vehicle-spring	J. M. Pressey	160,229	Feb. 23, 1875	945	310	7	335
Vehicle-spring	N. Provost	171,319	Dec. 21, 1875	652	214	8	1052
Vehicle-spring	J. D. Sarven	165,956	July 27, 1875	823	253	8	158
Vehicle-spring	R. Walker	168,302	Sept. 28, 1875	877	280	8	553
Vehicle-spring	W. F. Whitney	165,641	July 13, 1875	499	153	8	86
Vehicle-spring	J. H. Phoenix and J. Curtis	160,709	Mar. 9, 1875	417	139	7	417
Vehicle-spring	J. Walker	160,488	Mar. 2, 1875	209	72	7	379
Vehicle spring and side-bar connection	J. W. Gosling	160,586	Mar. 9, 1875	307	104	7	401
Vehicle-spring shackle	T. T. Pearson	164,205	June 8, 1875	344	117	7	988
Vehicle-spring side bar	J. Tilton	160,244	Feb. 23, 1875	958	315	7	337
Vehicle-top	J. F. Heger	166,775	Aug. 17, 1875	577	177	8	298
Vehicle-top	F. H. Jury	168,902	Oct. 19, 1875	563	181	8	660
Vehicle-top	J. B. Relyea	167,022	Aug. 24, 1875	825	257	8	341
Vehicle-top	L. Sawyer	163,812	May 25, 1875	1029	326	7	913
Vehicle-top	H. W. Warner	166,165	July 27, 1875	1025	316	8	186
Vehicle-top joint	T. F. Darcy	158,688	Jan. 12, 1875	314	107	7	68
Vehicle-top support	R. Hunt	166,610	Aug. 10, 1875	407	125	8	265
Vehicle, Traction	H. H. Chapin	161,006	Mar. 23, 1875	707	233	7	472
Vehicle-wheel	E. Ball	167,971	Sept. 21, 1875	542	174	8	500

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Vehicle-wheel	E. Ball	168,209	Sept. 28, 1875	797	253	8	542
Vehicle-wheel	S. L. Bond	165,471	July 13, 1875	344	101	8	62
Vehicle-wheel	J. H. E. Boykin	160,642	Mar. 9, 1875	356	120	7	409
Vehicle-wheel	W. Corris	165,211	July 6, 1875	67	19	8	18
Vehicle-wheel	J. Curtis	162,222	Apr. 20, 1875	585	192	7	666
Vehicle-wheel	F. W. R. Emery	159,251	Feb. 2, 1875	9	3	7	186
Vehicle-wheel	J. B. Fink	158,925	Jan. 19, 1875	554	184	7	115
Vehicle-wheel	S. B. Fuller	159,544	Feb. 9, 1875	304	98	7	233
Vehicle-wheel	J. C. Garretson	165,924	July 27, 1875	795	244	8	154
Vehicle-wheel	F. H. Green	166,272	Aug. 3, 1875	79	25	8	210
Vehicle-wheel	D. Grim	159,818	Feb. 16, 1875	561	186	7	274
Vehicle-wheel	E. Hall	161,953	Apr. 13, 1875	331	111	9	627
Vehicle-wheel	A. J. Hodges	160,268	Mar. 2, 1875	11	5	7	350
Vehicle-wheel	C. Jeantaud	165,587	July 13, 1875	444	135	8	78
Vehicle-wheel	L. P. Larson	161,245	Mar. 23, 1875	932	304	7	501
Vehicle-wheel	G. Leverich	159,940	Feb. 16, 1875	673	223	7	289
Vehicle-wheel	G. Nelson	161,980	Apr. 13, 1875	353	118	7	629
Vehicle-wheel	A. A. Philbrick	162,414	Apr. 20, 1875	770	250	7	689
Vehicle-wheel	E. Shaw	166,151	July 27, 1875	1013	312	8	184
Vehicle-wheel	J. A. Smith	160,240	Feb. 23, 1875	935	311	7	336
Vehicle-wheel	J. M. Stephenson	159,049	Jan. 26, 1875	693	229	7	141
Vehicle-wheel clamp	D. H. Tuxworth	161,997	Apr. 13, 1875	364	123	7	631
Vehicles, Propulsion of	G. B. de Boucherville	158,363	Jan. 5, 1875	13	4	7	10
Vehicles, Spring-bolster for	H. Buck	158,621	Jan. 12, 1875	253	86	7	60
Velocipede	J. J. Baily	161,924	Apr. 13, 1875	308	103	7	624
Velocipede	L. G. Bodet, J. Masse, and W. Webster.	169,774	Nov. 9, 1875	458	145	8	802
Velocipede	W. Bush	164,902	June 29, 1875	1029	332	7	1103
Velocipede	J. A. Crandall	160,575	Mar. 9, 1875	293	101	7	400
Velocipede	E. Crother and M. Bergenon	159,564	Feb. 9, 1875	317	103	7	235
Velocipede	W. Knight	159,584	Feb. 9, 1875	333	109	7	238
Velocipede	G. W. Marble	171,623	Dec. 28, 1875	964	313	8	1103
Velocipede	W. Quinn	159,770	Feb. 16, 1875	516	172	7	269
Velocipede	A. Schmackers	171,432	Dec. 21, 1875	756	248	8	1066
Velocipede	F. S. Seagrave	169,302	Oct. 26, 1875	954	309	8	722
Velocipede, Ice	C. M. Day	165,481	July 13, 1875	353	103	8	64
Veneer-cutting machine	J. B. Annin and J. A. Nutt	169,759	Nov. 9, 1875	446	141	8	801
Veneer-cutting machine	C. T. Fairchild	166,353	Aug. 3, 1875	152	47	8	221
Veneer-cutting machine	G. W. Swan	164,699	June 22, 1875	823	268	7	1069
Veneer grinding and fitting machine, Pearl	J. and G. Hoffmann	168,493	Oct. 5, 1875	155	51	8	587
Veneer pipes, Machine and process for making	R. M. C. Broas	171,347	Dec. 21, 1875	676	223	8	1055
Veneer pipes, Process for making	R. M. C. Broas	171,346	Dec. 21, 1875	675	223	8	1055
Veneering, Preparing wood	C. W. Spur and L. Prang	171,538	Dec. 28, 1875	873	285	8	1090
Vent	E. R. Behlers	170,982	Dec. 14, 1875	315	104	8	1000
Vent and stopple, Can	E. M. Crandal	164,813	June 22, 1875	927	300	7	1083
Vent, Beer	J. M. Spahn	160,847	Mar. 16, 1875	563	183	7	443
Ventilating and heating furnace	J. A. Young	170,615	Nov. 20, 1875	1282	405	8	936
Ventilating apparatus	J. C. Bates	168,864	Oct. 19, 1875	530	173	8	655
Ventilating-cap	L. F. Betts	168,961	Oct. 19, 1875	617	205	8	668
Ventilating churches, houses, &c	W. Kingham	170,174	Nov. 23, 1875	864	270	8	870
Ventilating halls, &c	P. Mihan	164,928	June 29, 1875	1055	340	7	1106
Ventilating-louver	G. Hayes	170,852	Dec. 7, 1875	175	60	8	974
Ventilating-register	H. Fritz	165,721	July 20, 1875	583	179	8	113
Ventilating-register, Adjustable	G. W. Rogers	161,442	Mar. 30, 1875	1137	366	7	535
Ventilator:							
See Car-ventilator.	Railway-tunnel ventilator.						
Chimney-ventilator.	Ridge-ventilator.						
Commode-ventilator.	Stove-ventilator.						
Hat-ventilator.	Wall-ventilator.						
Kitchen-ventilator.	Window-ventilator.						
Ventilator	T. W. Bracher	171,345	Dec. 21, 1875	674	223	8	1055
Ventilator	J. L. Faxon	170,836	Dec. 7, 1875	162	55	8	972
Ventilator	P. Mihan	165,245	July 6, 1875	96	28	8	22
Ventilator	A. L. Moyer	171,409	Dec. 21, 1875	737	242	8	1063
Ventilator	H. K. Stevens and O. F. Morse	161,910	Apr. 13, 1875	293	99	7	622
Ventilator-cap	H. A. Gouge	166,984	Aug. 24, 1875	786	243	8	336
Vermin-destroying composition	J. G. Steele	169,925	Nov. 16, 1875	614		8	830
Vermin-extermicator	V. Schmidt	168,926	Oct. 19, 1875	589		8	664
Vermin, Method of killing	T. S. Church	161,864	Apr. 13, 1875	250	83	7	616
Vernier	A. Young	166,912	Aug. 17, 1875	703	218	8	316
Vessel air-port	J. S. Wilson	164,954	June 29, 1875	1076	346	7	1109
Vessel-fender	F. Wood and C. H. Wentworth	159,535	Feb. 9, 1875	296	96	7	232
Vessel-handles, Attaching	G. W. Hartwell	166,364	Aug. 3, 1875	161	50	8	222
Vessel, Metallic	E. T. Covell	167,504	Sept. 7, 1875	106	33	8	421
Vessels, Apparatus for raising sunken	J. N. Furman	165,226	July 6, 1875	78	23	8	19
Vessels, Calking	J. T. White	170,139	Nov. 16, 1875	804	254	8	855
Vessels, Construction of	J. W. Norcross	163,941	June 1, 1875	86	29	7	943
Vessels, Construction of	T. W. Pratt	162,859	May 4, 1875	114	37	7	762
Vessels, Construction of spindle-shaped	W. L. and T. Winans	161,372	Mar. 30, 1875	1074	348	7	527
Vessels for transferring grain, Elevating	J. J. Safely	162,695	Apr. 27, 1875	1046	334	7	732
Vessels from running on shore, Safety-device for preventing	E. D. Gird	158,586	Jan. 12, 1875	225	76	7	55
Vessels, &c., Means for raising sunken	H. F. Knapp	160,441	Mar. 2, 1875	164	57	7	372
Vessels, Mechanism for casting lead on	C. E. Kirtland	162,755	May 4, 1875	17	6	7	749
Vessels, Shoal-indicator for	F. Wagner and S. Rumpus	165,897	July 20, 1875	754	231	8	136
Vest	C. R. Plympton	163,246	May 11, 1875	489	159	7	818
Vest, Bricklayer's	J. Moore	160,538	Mar. 9, 1875	268	91	7	396
Vine-rake	J. W. Dunn	162,277	Apr. 20, 1875	636	208	7	673
Vinegar-making apparatus	E. Burlingame	167,643	Sept. 14, 1875	246	76	8	447
Vinegar, Reagents for testing	C. Peters	169,727	Nov. 9, 1875	407	129	8	796
Violin	H. W. White	168,820	Oct. 11, 1875	478	156	8	640
Violin chin-rest	C. F. Albert	160,136	Feb. 23, 1875	863	286	7	323
Violin chin-rest	H. W. White	171,541	Dec. 28, 1875	875	286	8	1091
Violin, guitar, &c	J. Oehrleim	168,665	Oct. 11, 1875	343	112	8	621
Vise	T. L. Baylies	160,505	Mar. 9, 1875	238	82	7	391

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Vise.....	A. H. Brainard.....	169,516	Nov. 2, 1875	174	58	8	759
Vise.....	E. Caswell.....	170,344	Nov. 23, 1875	1012	317	8	891
Vise.....	W. Horton.....	162,069	Apr. 13, 1875	426	142	7	639
Vise.....	C. L. Kingsley.....	161,241	Mar. 23, 1875	928	303	7	501
Vise.....	E. Parker.....	159,115	Jan. 26, 1875	753	247	7	149
Vise.....	M. and W. Picken.....	161,820	Apr. 6, 1875	203	68, 69	7	598
Vise.....	A. O. H. P. Lehorn.....	169,486	Nov. 2, 1875	148	48	8	755
Vise, Bench.....	C. Burton.....	158,674	Jan. 12, 1875	301	102	7	66
Vise, Bench.....	G. M. Evans.....	170,721	Dec. 7, 1875	61	18	8	956
Vise, Bench.....	J. M. Poore.....	161,984	Apr. 13, 1875	355	119	7	630
Vise, Bench.....	P. Rimbold.....	162,692	Apr. 27, 1875	1044	333	7	731
Vise, Bench.....	A. Veilleux.....	166,828	Aug. 17, 1875	621	193	8	305
Vise, Hand.....	L. L. Pallard.....	166,553	Aug. 10, 1875	355	110	8	257
Vise, Horseshoe-calking.....	W. Weaver.....	170,319	Nov. 23, 1875	991	310	8	888
Vise, Pipe and bolt.....	G. W. Millner.....	167,110	Aug. 24, 1875	909	283	8	353
Voting apparatus.....	H. W. Spratt.....	158,652	Jan. 12, 1875	282	94, 95	7	63
Vulcanizing apparatus.....	W. J. Birdsall.....	161,656	Apr. 6, 1875	59	21	7	577
Vulcanizing apparatus.....	J. D. Heiges.....	170,731	Dec. 7, 1875	72	22	8	960
W.							
Wagon.....	T. Y. Van Cleave.....	161,302	Mar. 23, 1875	989	323	7	508
Wagon-axle.....	E. Balkema.....	163,963	June 1, 1875	102	35	7	945
Wagon-axle.....	J. R. Lantz and T. L. Mitchell.....	167,843	Sept. 21, 1875	440	140	8	484
Wagon-axle and thimble-skein.....	I. L. Anderson.....	160,502	Mar. 9, 1875	235	81	7	391
Wagon-axles, Gage for shaping.....	D. R. Winter.....	163,430	May 18, 1875	672	215	7	859
Wagon-body.....	C. A. Dewolf.....	170,159	Nov. 23, 1875	849	266	8	868
Wagon-body.....	C. W. Kinne.....	159,828	Feb. 16, 1875	569	189	7	275
Wagon-body.....	R. W. McClelland.....	161,346	Mar. 30, 1875	1046	340	7	524
Wagon-body.....	S. Rowell.....	162,578	Apr. 27, 1875	936	301	7	718
Wagon-body stay-iron.....	A. A. Livingston.....	159,033	Jan. 26, 1875	682	224	7	139
Wagon-body stud.....	C. Spencer.....	163,894	June 1, 1875	48	16	7	937
Wagon-bolster.....	L. F. Whitman.....	158,766	Jan. 12, 1875	379	129	7	77
Wagon-bolt.....	J. W. Hollenbeck.....	162,552	Apr. 27, 1875	915	293	7	715
Wagon-box.....	I. S. Clawson.....	160,258	Mar. 2, 1875	5	3	7	349
Wagon-box.....	T. Jennings.....	169,444	Nov. 2, 1875	111	35	8	750
Wagon-box strap.....	J. Scannel.....	164,218	June 8, 1875	354	121	7	990
Wagon-brake.....	O. T. Baker.....	162,337	Apr. 20, 1875	689	224	7	679
Wagon-brake.....	O. T. Baker.....	171,340	Dec. 21, 1875	670	221	8	1054
Wagon-brake.....	W. H. Barrows.....	162,012	Apr. 13, 1875	376	125	7	633
Wagon-brake.....	A. L. Bartlett.....	170,220	Nov. 23, 1875	902	282	8	875
Wagon-brake.....	J. C. Carhart.....	162,623	Apr. 27, 1875	972	312 } 313 }	7	723
Wagon-brake.....	H. Decker.....	169,969	Nov. 16, 1875	647	203	8	834
Wagon-brake.....	D. L. Delibaugh.....	164,153	June 8, 1875	298	102	7	982
Wagon-brake.....	I. N. Downs.....	162,632	Apr. 27, 1875	979	314	7	724
Wagon-brake.....	G. S. Garth and W. H. Rosser.....	165,487	July 13, 1875	358	105	8	64
Wagon-brake.....	T. H. Gourley and W. R. Lovelace.....	170,080	Nov. 16, 1875	752	238	8	818
Wagon-brake.....	R. I. Knapp.....	160,205	Feb. 23, 1875	923	304	7	331
Wagon-brake.....	W. Lackman.....	165,592	July 13, 1875	450	136	8	79
Wagon-brake.....	H. Markrud.....	169,459	Nov. 2, 1875	124	39	8	752
Wagon-brake.....	L. B. Morgan.....	162,092	Apr. 13, 1875	446	148	7	641
Wagon-brake.....	E. A. Thompson.....	163,545	May 18, 1875	787	249	7	873
Wagon-brake.....	J. C. Trullinger.....	164,344	June 8, 1875	476	158	7	1006
Wagon-brake block.....	G. G. Buckland.....	163,046	May 11, 1875	307	99	7	794
Wagon-brake block.....	W. Hendrick.....	161,034	Mar. 23, 1875	733	241	7	476
Wagon-brake block.....	V. Wieterhold and E. Oak.....	164,891	June 22, 1875	1000	323	7	1092
Wagon brake, Hay.....	W. Harper.....	163,653	May 25, 1875	897	284	7	895
Wagon-brake shoe.....	J. Grimste.....	163,650	May 25, 1875	895	283	7	895
Wagon-coupling.....	R. Bowman.....	162,611	Apr. 27, 1875	963	309	7	722
Wagon-cover.....	E. M. Saunders.....	160,792	Mar. 16, 1875	521	168	7	437
Wagon, Dumping.....	J. Bond.....	168,555	Oct. 11, 1875	237	78	8	605
Wagon, Dumping.....	W. H. Cooksey.....	169,961	Nov. 16, 1875	642	200 } 201 }	8	833
Wagon, Dumping.....	D. E. Davies.....	169,153	Oct. 26, 1875	819	266	8	703
Wagon, Dumping.....	P. and J. Heilman, jr.....	167,531	Sept. 7, 1875	135	41	8	425
Wagon, Dumping.....	W. H. Henkel.....	166,101	July 27, 1875	962	296	8	177
Wagon, Dumping.....	A. A. Hoch.....	169,171	Oct. 26, 1875	835	271 } 272 }	8	706
Wagon, Dumping.....	M. C. and H. L. Meigs.....	166,125	July 27, 1875	985	304	8	181
Wagon, Dumping.....	J. Mills.....	171,156	Dec. 14, 1875	478	156	8	1021
Wagon, Dumping.....	W. P. Patton and C. D. Walters.....	159,211	Jan. 26, 1875	840	275	7	162
Wagon, Dumping.....	W. M. Thompson.....	169,060	Oct. 19, 1875	711	235	8	680
Wagon, Dumping.....	T. Weaver.....	167,715	Sept. 14, 1875	306	97	8	457
Wagon end-gate.....	B. F. Buckley.....	163,047	May 11, 1875	308	99	7	794
Wagon end-gate.....	S. C. Myers.....	160,612	Mar. 9, 1875	331	111	7	405
Wagon end-gate.....	J. P. Outson.....	170,107	Nov. 16, 1875	776	246	8	851
Wagon-gearing.....	G. C. Seamcans.....	168,347	Oct. 5, 1875	25	10	8	568
Wagon hound and tongue.....	C. F. Whipple.....	161,648	Apr. 6, 1875	52	19	7	576
Wagon, Ice.....	C. Rauch.....	168,183	Sept. 28, 1875	773	245	8	539
Wagon, Infant's parlor.....	B. J. Harrison.....	169,168	Oct. 26, 1875	833	270	8	705
Wagon-jack.....	S. Chard.....	159,079	Jan. 26, 1875	721	238	7	145
Wagon-jack.....	J. C. Crawford.....	170,062	Nov. 16, 1875	732	232	8	816
Wagon-jack.....	C. T. Drake.....	166,689	Aug. 17, 1875	499	152	8	286
Wagon-jack.....	C. Gray.....	170,548	Nov. 30, 1875	1218	383	8	928
Wagon-jack.....	W. H. Horn.....	162,554	Apr. 27, 1875	916	294	7	715
Wagon-jack.....	J. Sawyer.....	165,689	July 20, 1875	555	169	8	109
Wagon-jack.....	B. W. Stanton.....	168,798	Oct. 11, 1875	458	149	8	637
Wagon-jack.....	J. B. Webster.....	159,726	Feb. 9, 1875	455	152	7	256
Wagon or sleigh, Dumping.....	J. Pattison.....	165,609	July 13, 1875	465	142	8	81
Wagon-rack.....	J. Bolt.....	166,250	Aug. 3, 1875	59	18	8	207
Wagon-rack.....	J. F. Cass.....	165,789	July 20, 1875	646	198	8	122
Wagon-reach.....	A. B. Wroth.....	168,313	Sept. 28, 1875	886	283	8	555
Wagon-seat.....	S. B. Conover.....	167,388	Sept. 7, 1875	8	3	8	408
Wagon-seat.....	S. Gilzinger.....	161,945	Apr. 13, 1875	325	109	7	626

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Wagon-seat	D. W. Hearn and P. Richards.....	169,490	Oct. 5, 1875	152	50	8	587
Wagon-seat	W. H. H. Snellbaker	160,624	Mar. 9, 1875	340	115	7	406
Wagon-seat fastening	C. Dixon	161,104	Mar. 23, 1875	803	263	7	484
Wagon, Side-bar	J. F. Barnecott	169,885	Nov. 16, 1875	581	180	8	825
Wagon, Side-bar	C. A. Collins	159,392	Feb. 2, 1875	134	46	7	203
Wagon, Side-bar	M. Donnelly	163,853	June 1, 1875	16	5	7	933
Wagon, Side-bar	E. Soper	161,172	Mar. 23, 1875	862	282	7	492
Wagon-spring	L. B. Devendorf	167,877	Sept. 21, 1875	473	150	8	489
Wagon-spring	M. Feigel	167,443	Sept. 7, 1875	58	17	8	414
Wagon-spring	A. W. McKown	171,401	Dec. 21, 1875	730	239	8	1062
Wagon-spring	W. F. Whitney	169,323	Oct. 26, 1875	975	316	8	725
Wagon-standard	R. W. McClelland	161,347	Mar. 30, 1875	1047	341	7	524
Wagon-wheel	J. Steiner	167,132	Aug. 24, 1875	927	289	8	356
Waist and skirt-supporter, Combined under	G. Frost and G. H. Phelps	161,851	Apr. 6, 1875	230	77	7	602
Waist, Under	G. Frost and G. H. Phelps	169,899	Nov. 16, 1875	591	183	8	827
Wall-coping	J. C. Wright	160,737	Mar. 9, 1875	444	177	7	420
Wall cramp, Hollow	R. Heinvest	162,383	Apr. 20, 1875	739	240	7	685
Wall, Hollow brick	F. Hainsworth	159,320	Feb. 2, 1875	77	26	7	194
Wall-paper exhibitor	W. H. Hazard	166,005	July 27, 1875	871	268	8	164
Wall-paper, Machine for applying paste to	J. Worley	160,375	Mar. 2, 1875	103	38	7	363
Wall-paper-trimming machine	C. Boust	170,659	Dec. 7, 1875	5	2	8	951
Wall-protector and towel-rack, Combined	M. G. Bell	160,998	Mar. 23, 1875	702	231	7	472
Wall ventilator, Side	W. G. Creamer	164,636	June 22, 1875	764	251	7	1062
Walls, Construction of	G. H. Ballentine	167,973	Sept. 21, 1875	544	175	8	500
Walls of buildings, Construction of	J. Wingrave	164,628	June 15, 1875	741	242	7	1050
Wardrobe	M. B. Coburn	164,640	June 22, 1875	766	252	7	1062
Wardrobe, Folding	L. A. Colbert	168,879	Oct. 19, 1875	541	177	8	657
Wardrobe, &c., hooks	C. H. Thurston	168,682	Oct. 11, 1875	355	116	8	623
Warehouse floodway	J. H. Morrell	162,517	Oct. 5, 1875	180	58	8	520
Warehouse floodway	J. H. Morrell	165,247	July 6, 1875	97	29	8	92
Warm-air furnace	J. B. Reinhard	164,101	June 8, 1875	254	87	7	976
Warming and ventilating apparatus	A. B. Mullett	153,965	Jan. 19, 1875	591	196	7	120
Warming apparatus	J. F. Reilly	166,894	Aug. 17, 1875	689	213	8	313
Warp-beam	O. D. Lombard	167,180	Aug. 31, 1875	997	310	8	372
Warp holder, Piecing	H. S. Houghton	164,740	June 22, 1875	858	279	7	1074
Warping-machine	J. S. Richard	161,638	Apr. 6, 1875	43	16, 17	7	575
Wash-basin	J. H. Kinsman and F. W. Smith	160,687	Mar. 9, 1875	396	133	7	414
Wash-bench	G. Bauman	165,149	July 6, 1875	3	1	8	9
Wash-bench	O. M. Merrick	164,386	June 15, 1875	531	174	7	1022
Wash-bench	F. and M. Way	160,977	Mar. 16, 1875	675	221	7	459
Wash-bench	F. and M. Way	160,978	Mar. 16, 1875	676	221, 222	7	459
Wash bench and wringer	C. F. Hornbeck	163,870	June 1, 1875	30	9	7	934
Wash bench and wringer, Combined	O. S. Holden and J. S. Corey	162,820	May 4, 1875	77	25	7	757
Wash-board	W. H. Berger	170,432	Nov. 30, 1875	1109	349	8	913
Wash-board	L. M. Crosby	171,552	Dec. 28, 1875	884	289	8	1092
Wash-board	E. S. Heath	168,252	Sept. 28, 1875	835	266	8	547
Wash-board	A. J. Hull	161,568	Dec. 28, 1875	901	294	8	1095
Wash-boiler	A. Becker	159,745	Feb. 16, 1875	494	165	7	266
Wash-boiler	J. B. Camyré	160,158	Feb. 23, 1875	884	291	7	326
Wash-boiler	W. P. Casperson	163,916	June 1, 1875	65	22	7	939
Wash-boiler	O. Davis	167,748	Sept. 14, 1875	337	108	8	461
Wash-boiler	J. D. Egler	167,082	Aug. 24, 1875	879	275	8	349
Wash-boiler	C. W. Guenther	169,902	Nov. 16, 1875	593	184	8	827
Wash-boiler	F. Mackli	168,266	Sept. 28, 1875	847	270	8	549
Wash-boiler	S. M. Marsden	159,196	Jan. 26, 1875	824	271	7	159
Wash-boiler	J. Rieth	164,875	June 22, 1875	986	318	7	1090
Wash-boiler	H. F. Thurston	166,949	Aug. 24, 1875	752	233	8	331
Wash-boiler attachment	W. J. Bennett	158,458	Jan. 5, 1875	94	32	7	22
Wash-boiler, &c., handle	J. W. Bates	167,055	Aug. 24, 1875	854	266	8	355
Wash-bowl	H. M. Weaver	166,045	July 27, 1875	906	280	8	169
Wash-bowl, Hand	T. Maddock	166,998	Aug. 24, 1875	804	249	8	338
Wash-bowls, &c., Vent-clearer for	J. S. Hawley	158,937	Jan. 19, 1875	565	187	7	117
Wash-stand	N. O. Bond	165,296	July 6, 1875	138	41, 42	8	28
Wash-stand	M. P. Brown	164,967	June 29, 1875	1086	350	7	1110
Wash-stand and water-closet, Combined	R. C. Ball	167,972	Sept. 21, 1875	542	174	8	500
Wash-tub wringer attachment	A. W. Caldwell	169,146	Oct. 26, 1875	813	264	8	702
Washer:							
See Axle-box washer.	Sheet-metal washer.						
Dish-washer.	Slate-washer.						
Gold-washer.	Spiral washer.						
Leather washer.	Spring-washer.						
Metallic washer.	Steam-washer.						
Nut-lock washer.	Vegetable-washer.						
Ore-washer.	Window-washer.						
Washer-cutter	E. Brule	168,607	Oct. 11, 1875	289	94	8	612
Washers, Machine for making	I. W. Doeg	163,303	May 18, 1875	564	180, 181	7	844
Washing and wringing machine	W. Card	171,266	Dec. 21, 1875	609	199	8	1047
Washing and wringing machine	I. J. Cilley, L. A. Wright, and T. Nelson	170,818	Dec. 7, 1875	148	49	8	970
Washing and wringing machine combined	J. H. Cook	161,328	Mar. 30, 1875	1030	335	7	522
Washing and wringing machine, Combined	G. C. Eastman	166,920	Aug. 24, 1875	726	225	8	328
Washing and wringing machine, Combined	J. S. Maughlin and W. C. Marr	153,383	Jan. 5, 1875	27	9	7	12
Washing compound or fluid	W. S. Williams	159,132	Jan. 26, 1875	766	.....	7	151
Washing-fluid	A. Thode	166,948	Aug. 24, 1875	752	.....	8	331
Washing goods in the piece, Machine for	C. J. Barker	160,743	Mar. 16, 1875	466	153	7	431
Washing-list	G. Lamb	161,886	Apr. 13, 1875	273	92	7	619
Washing-machine	T. Addison and J. T. Yates	163,906	June 1, 1875	57	19	7	938
Washing-machine	T. Allen	169,397	Nov. 2, 1875	73	22	8	744
Washing-machine	J. K. Alwood	160,252	Mar. 2, 1875	1	1	7	349
Washing-machine	W. Atwood	166,579	Aug. 10, 1875	378	117	8	261
Washing-machine	O. Baldwin	163,292	May 18, 1875	552	177	7	843
Washing-machine	J. R. Barnes	161,854	Apr. 13, 1875	240	80	7	615
Washing-machine	J. F. Bassett	158,886	Jan. 19, 1875	510	171	7	110

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Washing-machine	J. W. Batson	162,602	Apr. 27, 1875	956	307	7	721
Washing-machine	L. Becker	165,058	June 29, 1875	1162	374	7	1121
Washing-machine	T. P. Benton	167,978	Sept. 21, 1875	548	177	8	501
Washing-machine	C. C. Bishop	165,979	July 27, 1875	848	261	8	161
Washing-machine	D. and D. F. Born	166,584	Aug. 10, 1875	382	118	8	261
Washing-machine	W. A. Bowen	162,996	May 11, 1875	260	84	7	789
Washing-machine	J. A. Bowyer	168,827	Oct. 19, 1875	497	162	8	651
Washing-machine	J. H. Carroll	166,185	Aug. 3, 1875	4	2	8	199
Washing-machine	J. C. Chase	158,831	Jan. 19, 1875	463	155	7	104
Washing-machine	G. W. Cole	167,071	Aug. 24, 1875	870	271	8	347
Washing-machine	W. Combs	164,364	June 15, 1875	512	168	7	1019
Washing-machine	M. Commerce	158,783	Jan. 19, 1875	417	140	7	98
Washing-machine	J. H. Conaway	168,880	Oct. 19, 1875	541	177	8	657
Washing-machine	W. D. and D. M. Croy	160,169	Feb. 23, 1875	893	294	7	327
Washing-machine	T. Crumbling	162,628	Apr. 27, 1875	976	314	7	723
Washing-machine	A. Delamater	168,885	Oct. 19, 1875	545	179	8	658
Washing-machine	S. L. Denney	166,266	Aug. 3, 1875	75	23	8	209
Washing-machine	P. A. Downer	169,242	Oct. 26, 1875	895	291	8	714
Washing-machine	J. A. Eberly	162,359	Apr. 20, 1875	714	232	7	682
Washing-machine	D. A. Flummerfelt	159,914	Feb. 16, 1875	650	215	7	286
Washing-machine	J. T. Forbes	160,413	Mar. 2, 1875	139	49	7	368
Washing-machine	G. Friend	167,757	Sept. 14, 1875	350	111	8	463
Washing-machine	G. W. Gilbert	168,735	Oct. 11, 1875	404	131	8	629
Washing-machine	F. Gittere	170,362	Nov. 23, 1875	1026	321	8	893
Washing-machine	W. Goforth	171,561	Dec. 28, 1875	894	292	8	1094
Washing-machine	G. W. Grubb	167,761	Sept. 14, 1875	355	112	8	463
Washing-machine	A. Hale	169,437	Nov. 2, 1875	107	34	8	749
Washing-machine	J. W. Hampton	162,380	Apr. 20, 1875	737	239	7	685
Washing-machine	J. H. Harris	165,573	July 13, 1875	433	131		
Washing-machine	S. Hawkins	159,322	Feb. 2, 1875	79	26	7	194
Washing-machine	W. E. Hillson	162,550	Apr. 27, 1875	912	292	7	715
Washing-machine	S. W. Holbrook	159,094	Jan. 26, 1875	732	242	7	147
Washing-machine	J. Hollingsworth	166,460	Aug. 10, 1875	283	84	8	246
Washing-machine	G. W. Holmes	166,871	Aug. 17, 1875	663	206	8	310
Washing-machine	A. G. Huey	160,435	Mar. 2, 1875	159	56	7	371
Washing-machine	G. Huntington	160,597	Mar. 9, 1875	319	108	7	403
Washing-machine	T. A. Irick	165,675	July 20, 1875	543	166	8	107
Washing-machine	A. Israel	161,793	Apr. 6, 1875	173	59	7	594
Washing-machine	J. W. James and J. Street	159,827	Feb. 16, 1875	568	189	7	275
Washing-machine	E. A. Jones	166,109	July 27, 1875	970	299	8	178
Washing-machine	G. S. Jones and B. F. Kidd	164,004	June 1, 1875	138	49	7	950
Washing-machine	M. Jones	163,317	May 18, 1875	575	184	7	846
Washing-machine	T. B. Kirkwood	167,907	Sept. 21, 1875	496	157	8	492
Washing-machine	J. D. Lawlor	165,421	July 13, 1875	290	86	8	55
Washing-machine	J. D. Lawlor	170,279	Nov. 23, 1875	954	299	8	883
Washing-machine	J. F. Lawson	170,862	Dec. 7, 1875	183	62	8	975
Washing-machine	F. M. Lechner	160,211	Feb. 23, 1875	930	305	7	332
Washing-machine	P. Lieber	169,111	Oct. 26, 1875	784	254	8	698
Washing-machine	N. Longly	165,938	July 27, 1875	808	248	8	156
Washing-machine	S. P. Loomis	165,598	July 13, 1875	455	138	8	80
Washing-machine	M. Loughran	165,844	July 20, 1875	707	215	8	129
Washing-machine	D. Louis	171,576	Dec. 28, 1875	907	297	8	1096
Washing-machine	J. H. Malone	158,506	Jan. 5, 1875	138	46	7	28
Washing-machine	P. Markley	165,679	July 20, 1875	546	167	8	108
Washing-machine	E. W. Maxson	162,399	Apr. 20, 1875	756	245	7	687
Washing-machine	T. McGuire	167,267	Aug. 31, 1875	1069	333	8	332
Washing-machine	J. W. McQuillin and J. A. Knap- per.	166,539	Aug. 10, 1875	344	106	8	256
Washing-machine	T. J. McWane	162,296	Apr. 20, 1875	652	213	7	675
Washing-machine	J. W. Melick	164,018	June 1, 1875	151	54	7	951
Washing-machine	G. W. Mikesell	161,143	Mar. 23, 1875	839	273	7	489
Washing-machine	D. Minderle and G. Maschmeyer	160,026	Feb. 23, 1875	773	255	7	310
Washing-machine	S. D. Morey	161,893	Apr. 13, 1875	278	94	7	620
Washing-machine	J. H. Mudgett	166,714	Aug. 17, 1875	523	160	8	290
Washing-machine	F. M. Meyers	159,603	Feb. 9, 1875	346	115	7	240
Washing-machine	J. Meyers	165,358	July 6, 1875	197	59	8	36
Washing-machine	J. Meyers	165,359	July 6, 1875	197	59	8	36
Washing-machine	M. Newton	164,755	June 22, 1875	871	284	7	1076
Washing-machine	H. Niemann and F. Schlechter	158,969	Jan. 19, 1875	595	198	7	121
Washing-machine	J. M. Oakley	166,217	Aug. 3, 1875	30	10	8	203
Washing-machine	A. O'Dell	164,322	June 8, 1875	458	151	7	1003
Washing-machine	R. G. Orwig	163,686	May 25, 1875	921	293	7	898
Washing-machine	D. and M. Palmer and C. E. Briggs	166,888	Aug. 17, 1875	683	211	8	313
Washing-machine	T. Patterson	160,706	Mar. 9, 1875	415	138	7	417
Washing-machine	D. B. Bond	162,285	Sept. 22, 1875	863	276	8	551
Washing-machine	E. S. Richmond	171,169	Dec. 14, 1875	489	161	8	1023
Washing-machine	E. J. Robinson	163,947	June 1, 1875	92	31	7	943
Washing-machine	O. V. Roe	165,874	July 20, 1875	732	224	8	133
Washing-machine	C. E. Ross	164,217	June 8, 1875	353	121	7	990
Washing-machine	F. H. F. Schneider	165,429	July 13, 1875	298	88	8	56
Washing-machine	P. Schweikhart	163,265	May 11, 1875	508	165	7	820
Washing-machine	J. Seaman	163,891	June 1, 1875	46	16	7	937
Washing-machine	S. W. Shanks	159,613	Feb. 9, 1875	353	117	7	241
Washing-machine	I. A. Shaw	168,931	Oct. 19, 1875	593	196	8	665
Washing-machine	P. A. Shipley and A. Wheeler	159,971	Feb. 16, 1875	700	233	7	293
Washing-machine	J. I. Shotwell	170,311	Nov. 23, 1875	983	308	8	887
Washing-machine	J. S. Shrawder	158,748	Jan. 12, 1875	362	124	7	75
Washing-machine	A. Smith and J. S. Roy	169,737	Nov. 9, 1875	416	132	8	797
Washing-machine	J. W. Spangler and B. F. Reich	162,112	Apr. 13, 1875	468	155	7	644
Washing-machine	A. Stott and D. Eavenson	159,466	Feb. 2, 1875	212	69	7	214
Washing-machine	T. Stumm	159,855	Feb. 16, 1875	593	196	7	279
Washing-machine	O. S. Thayer	166,731	Aug. 17, 1875	538	165	8	292
Washing-machine	J. H. Van De Water	158,547	Jan. 5, 1875	170	58	7	33
Washing-machine	D. Warnock	167,483	Sept. 7, 1875	88	28	8	419

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Washing-machine.....	T. J. Webster.....	161, 186	Mar. 23, 1875	873	226	7	494
Washing-machine.....	S. Wells.....	163, 427	July 18, 1875	670	214	7	858
Washing-machine.....	H. G. Williams.....	158, 770	Jan. 12, 1875	384	130	7	78
Washing-machine.....	J. Wise and P. Lane.....	164, 502	June 15, 1875	637	206	7	1035
Washing-machine.....	A. E. Worden.....	162, 327	Apr. 20, 1875	681	222	7	678
Washing-machine.....	A. B. Wroth.....	165, 969	July 27, 1875	837	257	8	159
Washing-machine and wringer clamp.....	W. A. Duncan.....	171, 108	Dec. 14, 1875	427	142	8	1015
Washing-machine, Boiler.....	J. D. M. Armbrust.....	161, 731	Apr. 6, 1875	122	43	7	526
Washing-machine, Boiler.....	C. R. Everson and L. L. Cramer..	166, 691	Aug. 17, 1875	499	{ 152 153 }	8	286
Washing-machine clamp.....	C. B. Camp and C. Osterhout.....	169, 656	Nov. 16, 1875	639	199	8	833
Washing-machine, Cylinder.....	S. and A. T. Wekey.....	164, 785	June 22, 1875	896	292	7	1079
Waste-pipe trap.....	T. Hudson.....	170, 268	Nov. 23, 1875	946	296	8	882
Waste-pipes, Automatic closing attachment for.....	F. P. Bourne.....	162, 268	Apr. 20, 1875	629	205	7	672
Watch.....	J. K. Bigelow.....	169, 512	Nov. 2, 1875	170	57	8	758
Watch.....	M. G. Cole.....	165, 793	July 20, 1875	650	{ 199 200 }	8	122
Watch.....	J. R. Hopkins.....	161, 513	Mar. 30, 1875	1210	389	7	545
Watch.....	E. J. Pacaud.....	168, 774	Oct. 11, 1875	437	142	8	634
Watch-balance, Compensation.....	A. H. Potter.....	168, 583	Oct. 11, 1875	267	87	8	609
Watch-case.....	S. B. Simon.....	161, 712	Apr. 6, 1875	103	37	7	584
Watch-case.....	F. Steffany.....	162, 321	Apr. 20, 1875	673	220	7	677
Watch-case backs, Form for forming.....	F. H. Wilby.....	159, 993	Feb. 16, 1875	723	240	7	296
Watch-case bezels, Device for making.....	F. H. Wilby.....	159, 238	Jan. 26, 1875	864	282	7	165
Watch-case centers, Die for making.....	J. Geldreich.....	170, 076	Nov. 16, 1875	749	237	8	847
Watch-case spring.....	A. S. Buckelew.....	167, 063	Aug. 24, 1875	864	269	8	347
Watch-case spring.....	A. S. Buckelew.....	170, 341	Nov. 23, 1875	1009	317	8	891
Watch-case spring.....	J. Menegay.....	160, 610	Mar. 9, 1875	329	111	7	405
Watch-case spring.....	C. W. Wadsworth.....	160, 368	Mar. 2, 1875	98	36	7	363
Watch-case spring and catch.....	I. N. Hopkins.....	164, 918	June 29, 1875	1044	336	7	1105
Watch-case tool.....	C. Hopkins.....	167, 174	Aug. 31, 1875	993	309	8	372
Watch-cases, Machine for the manufacture of.....	C. L. Thiery.....	162, 324	Apr. 20, 1875	675	221	7	678
Watch center-wheel.....	M. C. Smith.....	159, 363	Feb. 2, 1875	110	38	7	199
Watch-chain charm.....	R. B. Esler.....	165, 317	July 6, 1875	160	48	8	30
Watch-chain swivel.....	C. Mills.....	164, 119	June 8, 1875	270	92	7	978
Watch-cleaning fluid.....	A. Monnier.....	171, 035	Dec. 14, 1875	357	.....	8	1005
Watch-crystals, Clamp for grinding.....	A. C. Norton.....	163, 683	May 25, 1875	919	292	7	898
Watch-crystals, Gage for fitting.....	B. B. Loar.....	159, 336	Feb. 2, 1875	90	31	7	196
Watch-escapement.....	E. Bourquin.....	167, 872	Sept. 21, 1875	467	148	8	488
Watch-escapement.....	J. R. Hopkins.....	165, 830	July 20, 1875	692	211	8	127
Watch-escapement.....	A. H. Potter.....	168, 582	Oct. 11, 1875	266	87	8	609
Watch-key.....	J. C. Dueber.....	164, 819	June 22, 1875	932	302	7	1083
Watch-key.....	A. and F. Hathaway.....	163, 771	May 25, 1875	993	315	7	908
Watch-key.....	H. Lohmeyer.....	161, 421	Mar. 30, 1875	1119	362	7	533
Watch-key.....	G. P. Reed.....	168, 527	Oct. 5, 1875	188	62	8	591
Watch-key.....	A. and C. A. Wanner.....	161, 306	Mar. 23, 1875	992	324	7	509
Watch-key combination-tool.....	O. D. Warfield.....	165, 635	July 13, 1875	492	150	8	85
Watch-key, Ratchet.....	G. A. Beidler.....	160, 867	Mar. 16, 1875	579	188	7	446
Watch-mainspring.....	J. A. Dawson.....	163, 161	May 11, 1875	413	134	7	808
Watch-mainspring.....	G. Hunter.....	161, 236	Mar. 23, 1875	923	302	7	500
Watch-mainspring.....	C. W. Rice and A. L. Burbank.....	163, 694	May 25, 1875	927	295	7	899
Watch-mainspring attachment.....	M. Wheeler.....	167, 372	Aug. 31, 1875	1162	366	8	396
Watch-maker's box.....	P. H. Wheeler.....	165, 774	July 20, 1875	629	193	8	120
Watch-movements, Construction of.....	J. H. Flynt.....	162, 542	Apr. 27, 1875	906	290	7	714
Watch-plate.....	V. Doriot.....	169, 787	Nov. 9, 1875	474	150	8	804
Watch-plate.....	F. A. Lange.....	161, 244	Mar. 23, 1875	931	304	7	501
Watch-pinion, Reversible.....	J. Gordon.....	160, 585	Mar. 9, 1875	307	104	7	401
Watch-regulator.....	E. MacNutt.....	169, 458	Nov. 2, 1875	122	39	8	752
Watch-regulator.....	R. S. Merston.....	167, 407	Sept. 7, 1875	25	7	8	410
Watch-regulator.....	J. A. Miller.....	163, 680	May 25, 1875	916	291	7	898
Watch-regulator.....	C. Teske.....	168, 429	Oct. 5, 1875	96	33	8	579
Watch safety center-pinion.....	C. R. Bacon and L. C. Brown.....	166, 741	Aug. 17, 1875	550	168	8	293
Watch safety-pinion.....	L. W. Thompson.....	165, 275	July 6, 1875	119	36	8	25
Watch safety-wheel.....	E. Jeanjaquet.....	164, 092	June 8, 1875	245	84	7	975
Watch-spring equalizer.....	C. Hanson.....	161, 957	Apr. 13, 1875	333	112	7	627
Watch, Stem-setting.....	J. F. U. Jurgensen.....	161, 239	Mar. 23, 1875	926	302	7	501
Watch, Stem-winding.....	J. D. Brez.....	165, 786	July 20, 1875	642	197	8	121
Watch, Stem-winding.....	C. D. P. Gibson.....	169, 987	Nov. 16, 1875	663	208	8	836
Watch, Stem-winding.....	C. S. Moseley.....	161, 262	Mar. 23, 1875	953	{ 310 311 }	7	504
Watch, Stem-winding.....	C. V. Woerd.....	161, 725	Apr. 6, 1875	114	41	7	586
Watch-wheels, Tool for pivoting.....	F. R. Bucklin.....	164, 714	June 22, 1875	837	272	7	1071
Watches, Barrel-arbor for.....	J. R. Hopkins.....	165, 831	July 20, 1875	693	212	8	128
Watches, Barrel-arbor for.....	A. H. Potter.....	168, 581	Oct. 11, 1875	265	86	8	609
Watches, Cannon-pinion for.....	S. Ramey.....	161, 822	Apr. 6, 1875	206	69	7	598
Watches, Collet for balance-springs of.....	A. Jewett.....	166, 990	Aug. 24, 1875	799	248	8	337
Watches, Compound balance-staff for.....	J. J. Thornton.....	168, 065	Sept. 21, 1875	649	206	6	514
Watches, Hollow staff for.....	W. A. Belcher and D. J. Plume..	167, 634	Sept. 14, 1875	240	74	8	447
Watches, Independent escapement for.....	F. Fitt.....	167, 089	Aug. 24, 1875	890	{ 277 278 }	8	350
Watches, Reversible center-pin for.....	F. E. Smith.....	171, 058	Dec. 14, 1875	382	126	8	1008
Watches, Stem winding and setting device for.....	L. Kahn.....	166, 781	Aug. 17, 1875	581	179	8	298
Watchman's register.....	D. Shive.....	169, 378	Nov. 2, 1875	56	17	8	742
Watchman's time-check.....	T. D. Osborne and W. W. Le Grande.	167, 925	Sept. 21, 1875	508	162	8	494
Water and other pipes, Device or clamp for stopping leaks in.....	J. B. Peake.....	164, 028	June 1, 1875	160	56	7	953
Water and steam indicator for boilers.....	W. L. Carman.....	158, 675	Jan. 12, 1875	302	103	7	66
Water, &c., Apparatus for drawing.....	P. Vabe and H. Cuau.....	166, 657	Aug. 10, 1875	448	138	8	270
Water by pneumatic pressure, Apparatus for raising.....	R. A. Cheesebrough.....	158, 676	Jan. 12, 1875	303	103	7	66
Water-channels, Preventing the obstruction of.....	L. H. Beebe.....	165, 059	June 29, 1875	1162	374	7	1121
Water-closet.....	E. O. Brinckerhoff.....	158, 896	Jan. 19, 1875	524	175	7	112
Water-closet.....	H. P. B. Chan.....	161, 004	Mar. 23, 1875	706	233	7	472
Water-closet.....	W. S. Carr.....	162, 742	May 4, 1875	7	3	7	747
Water-closet.....	W. S. Carr.....	168, 613	Oct. 11, 1875	295	96	8	614

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Water-closet	R. C. Clark	158,677	Jan. 12, 1875	304	103	7	66
Water-closet	W. J. Crow	159,906	Feb. 16, 1875	644	213	7	285
Water-closet	J. H. Gould	160,896	Mar. 16, 1875	604	197	7	449
Water-closet	R. D. O. Smith	167,702	Sept. 14, 1875	295	93	8	453
Water-closet pan	E. A. Leland	166,209	Aug. 3, 1875	24	8	8	202
Water-closet seat	F. Faby	165,553	July 13, 1875	415	125	8	74
Water-closet water-supply apparatus	I. Riley	165,507	July 13, 1875	375	111	8	67
Water-closets, Apparatus for disinfecting	G. Jennings	164,842	June 22, 1875	952	309	7	1086
Water-closets, Automatically cleansing	J. J. O'Donohue	165,174	July 6, 1875	33	9	8	13
Water-closets, Automatic shut-off for	J. Cavanagh	165,209	July 6, 1875	66	19	8	18
Water-closets, Self-raising seat for	J. E. Walter	162,437	Apr. 20, 1875	790	257	7	691
Water-cooler	P. Gray	163,481	May 18, 1875	725	231	7	865
Water-cooler	G. I. Mix	165,357	July 6, 1875	196	58, 59	8	35
Water-cooler	L. B. Woolfolk	166,736	Aug. 17, 1875	545	167	8	293
Water-cooler and filter	A. H. Peterson	158,649	Jan. 12, 1875	280	94	7	63
Water cooler and refrigerator, Combined	J. K. Korff	161,797	Apr. 6, 1875	177	60	7	594
Water-cooler, &c., cover	E. B. Jewett	170,477	Nov. 30, 1875	1151	363	8	918
Water-cooler stand	C. B. Porter	166,889	Aug. 17, 1875	683	212	8	313
Water-cooler, &c., stand	W. L. McDowell	170,876	Dec. 7, 1875	194	67	8	977
Water cooling and aerating apparatus	W. A. Lighthall	162,668	Apr. 27, 1875	1017	325, 326	7	728
Water-distributor, Automatic	G. J. Orr	163,101	May 11, 1875	358	116	7	801
Water-elevator	A. Brear	162,613	Apr. 27, 1875	964	310	7	722
Water-elevator	J. Chandler	166,500	Aug. 10, 1875	314	95	8	251
Water elevator	P. Hoag and O. Junkerman	163,999	June 1, 1875	134	47	7	949
Water-elevator	J. Keith	160,527	Mar. 9, 1875	257	88	7	394
Water-elevator	L. H. Thompson	171,330	Dec. 21, 1875	661	218	8	1053
Water-elevator	J. H. Van Dyck	169,316	Oct. 26, 1875	970	314	8	724
Water-elevator	W. Walter	161,079	Mar. 23, 1875	774	255	7	481
Water-elevator	W. Walter	164,887	June 22, 1875	997	322	7	1091
Water-elevator or chain-pump	O. A. Davis	160,578	Mar. 9, 1875	299	102	7	401
Water from ships, &c., Device for automatically discharging.	W. D. Peters and G. H. Holt	164,477	June 15, 1875	616	199	7	1032
Water-heater	S. L. Latta	159,103	Jan. 26, 1875	741	244	7	148
Water-heater boiler	J. R. Lamb	161,522	Mar. 30, 1875	1217	391	8	546
Water-heater boiler	W. Taylor	158,755	Jan. 12, 1875	368	125, 126	7	76
Water in pipes, Apparatus for indicating and recording the velocity of.	G. F. Deacon	167,994	Sept. 21, 1875	560	180, 181	8	502
Water-meter	P. Ball and B. Fitts	160,379	Mar. 2, 1875	107	39	7	364
Water-meter	A. Guthrie	160,767	Mar. 16, 1875	496	161	7	434
Water-meter	W. Helme	165,673	July 20, 1875	541	165	8	107
Water-meter	N. W. Knowlton	159,419	Feb. 2, 1875	159	54	7	206
Water-meter	W. B. Mounteney	169,368	Nov. 2, 1875	48	14	8	741
Water-meter	F. Philippi	170,895	Dec. 7, 1875	211	73	8	979
Water-meter	W. P. Rhodes and J. H. Swartz	168,528	Oct. 5, 1875	189	62	8	591
Water-meter	A. Swasey	168,354	Oct. 5, 1875	31	12	8	569
Water-meter	D. C. Taylor	168,854	Oct. 19, 1875	519	170	8	654
Water-meter	H. M. Wilcox	165,966	July 27, 1875	833	256	8	159
Water-meter	G. Winzer and R. D. Bland	166,175	July 27, 1875	1036	319	8	188
Water-meter register-dial	J. C. Kelley	170,272	Nov. 23, 1875	950	297	8	882
Water-pipe	W. H. Sampson	170,305	Nov. 23, 1875	978	306	8	886
Water-pipe	E. W. Smith	171,440	Dec. 21, 1875	762	251	8	1067
Water-pipes, Apparatus for thawing	T. J. Sloan	168,352	Oct. 5, 1875	29	11	8	569
Water-pipes, Device for thawing	R. E. Dietz	165,550	July 13, 1875	413	124	8	73
Water-pipes from freezing, Protecting	A. N. Rankin	167,195	Aug. 31, 1875	1009	314	8	374
Water-pipes, Implement for thawing	T. J. Sloan	168,353	Oct. 5, 1875	30	12	8	569
Water-power	C. Monson	161,146	Mar. 23, 1875	841	274	7	489
Water-proof compound	A. Barnard	171,209	Dec. 21, 1875	555	.....	8	1039
Water-proof compound	W. D. Grimshaw	160,898	Mar. 16, 1875	605	.....	7	449
Water-raising apparatus, Electrical	E. Ponvert, jr	170,014	Nov. 16, 1875	688	216	8	839
Water-raising apparatus, Regulator for electrical	J. H. Guest	161,680	Apr. 6, 1875	79	28	7	589
Water-supply apparatus	J. N. Poage	169,577	Nov. 2, 1875	237	78	8	766
Water-trap	W. A. Butler	165,302	July 6, 1875	143	44	8	28
Water-trap supply and connection	J. H. Morrell	168,405	Oct. 5, 1875	77	27	8	576
Water-traps, Manufacture of	G. W. Wicks	169,392	Nov. 2, 1875	68	20	8	744
Water-traps, Mold for casting	J. M. Reid	167,021	Aug. 24, 1875	824	256	8	341
Water-tube boiler	J. D. Pierce	167,562	Sept. 7, 1875	160	50	8	429
Water-tube boiler	J. Warner	166,235	Aug. 3, 1875	45	15	8	205
Water-wheel	J. Atkins	166,676	Aug. 10, 1875	465	143	8	273
Water-wheel	O. J. Bollinger	163,914	June 1, 1875	63	21	7	939
Water-wheel	J. J. Bourgeois	171,088	Dec. 14, 1875	407	135	8	1012
Water-wheel	H. W. Campbell and J. H. Johnson	166,682	Aug. 17, 1875	492	150	8	285
Water-wheel	J. P. Collins	163,850	June 1, 1875	14	4	7	932
Water-wheel	E. B. Cope	164,909	June 29, 1875	1036	334	7	1104
Water-wheel	G. H. Darling	170,065	Nov. 16, 1875	735	233	8	846
Water-wheel	J. Erikson	164,823	June 22, 1875	936	302	7	1084
Water-wheel	W. C. Groves	169,901	Nov. 16, 1875	593	184	8	827
Water-wheel	A. W. Hoag	169,165	Oct. 26, 1875	830	269	8	705
Water-wheel	J. M. Hart	163,927	June 1, 1875	75	25	7	941
Water-wheel	H. W. Hawley	166,004	July 27, 1875	870	268	8	164
Water-wheel	J. L. Helmer	168,641	Oct. 11, 1875	324	105	8	618
Water-wheel	S. N. Knight	158,591	Jan. 12, 1875	229	77	7	56
Water-wheel	F. Kring	162,293	Apr. 29, 1875	650	212	7	674
Water-wheel	S. C. Lyons	170,235	Nov. 23, 1875	961	301	8	884
Water-wheel	I. Mallery	163,672	May 25, 1875	910	289	7	897
Water-wheel	I. Mallery	170,633	Nov. 30, 1875	1301	410	8	938
Water-wheel	R. R. Royer	160,958	Mar. 16, 1875	660	215	7	456
Water-wheel	S. Sherwood	160,356	Mar. 2, 1875	88	32	7	361
Water-wheel	J. H. Staples	161,643	Apr. 6, 1875	47	18	7	576
Water-wheel	C. H. Sturgess	164,495	June 15, 1875	630	204	7	1034
Water-wheel	T. Tait	171,191	Dec. 14, 1875	508	167	8	1025
Water-wheel	W. J. Thompson	160,128	Feb. 23, 1875	857	284	7	322
Water-wheel	H. Twitchell	167,956	Sept. 21, 1875	532	170	8	498

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Water-wheel	F. Voigt	170,499	Nov. 30, 1875	1172	370	8	921
Water-wheel	R. Wilson	168,202	Sept. 28, 1875	792	251	8	541
Water-wheel	A. N. Wolf	159,734	Feb. 9, 1875	465	155	7	257
Water-wheel and gate	O. S. Hazard	171,223	Dec. 21, 1875	569	187	8	1041
Water-wheel case, Turbine	E. R. Stilwell	158,997	Jan. 19, 1875	623	206	7	124
Water-wheel, Centrifugal	O. J. Backus	171,256	Dec. 21, 1875	599	196	8	1045
Water-wheel, Centrifugal	J. H. Meacham	169,018	Oct. 19, 1875	670	220	8	675
Water-wheel chute	M. B. Mooman	160,457	Mar. 2, 1875	180	62	7	374
Water-wheel, Current	W. W. Cleaveland	166,187	Aug. 3, 1875	6	3	8	199
Water-wheel gate	G. W. Dunn	163,754	May 25, 1875	981	311	7	906
Water-wheel gate, Combined	Y. W. Larmen	168,507	Oct. 5, 1875	170	55	8	558
Water-wheel, Reversible	A. W. Lindley	169,112	Oct. 26, 1875	784	254	8	698
Water-wheel, Turbine	G. Arrowsmith	164,668	June 22, 1875	791	259	7	1065
Water-wheel, Turbine	J. M. Denson	164,724	June 22, 1875	845	274	7	1072
Water-wheel, Turbine	S. R. Jenner	165,334	July 6, 1875	173	53	8	32
Water-wheel, Turbine	G. H. Jones	166,206	Aug. 3, 1875	21	7, 8	8	202
Water-wheel, Turbine	W. Mercier	164,927	June 29, 1875	1054	339	7	1106
Water-wheel, Turbine	M. C. Washburn	167,143	Aug. 24, 1875	939	292	8	357
Water-works, Portable	J. N. Dennison	170,532	Nov. 30, 1875	1199	379	8	925
Water-works, Reservoir for	W. H. Morrison	158,386	Jan. 5, 1875	30	10, 11	7	13
Wave-power machine	C. Buckner, jr.	163,451	May 18, 1875	692	221	7	861
Waxing compound	L. R. Mears	165,942	July 37, 1875	812		8	156
Weather-board gage	R. J. Dodd	169,527	Nov. 2, 1875	183	62	8	760
Weather-board gage	D. M. Mefford	159,597	Feb. 9, 1875	341	113	7	240
Weather-board gage	D. Neff	164,584	June 15, 1875	705	229	7	1045
Weather-boarding	H. L. Clippinger	164,972	June 29, 1875	1090	351	7	1111
Weather-strip	G. P. Bennett	167,820	Sept. 21, 1875	420	134	8	481
Weather-strip	F. A. Bradshaw	168,869	Oct. 19, 1875	533	175	8	656
Weather-strip	G. Burkhardt and C. E. Harden	162,621	Apr. 27, 1875	971	312	7	723
Weather-strip	J. Chandler	170,620	Nov. 30, 1875	1288	407	8	937
Weather-strip	T. Clark	166,453	Aug. 10, 1875	278	83	8	246
Weather-strip	J. Cleave	169,420	Nov. 2, 1875	91	28	8	747
Weather-strip	D. Doan	170,534	Nov. 30, 1875	1201	379	8	926
Weather-strip	W. H. Douglass	166,919	Aug. 24, 1875	725	225	8	328
Weather-strip	F. Fleury	165,922	July 27, 1875	789	243	8	154
Weather-strip	D. L. Hoffman and P. M. Shoemate	165,489	July 13, 1875	359	105	8	65
Weather-strip	N. Liddell	164,382	June 15, 1875	528	173	7	1021
Weather-strip	W. Sustins	170,029	Nov. 16, 1875	698	220	8	841
Weather-strip	E. C. Underwood	160,555	Mar. 9, 1875	281	95	7	398
Weather-strip	W. T. Valentine	158,762	Jan. 12, 1875	374	127	7	76
Weather-strip	C. A. Wilhemi	171,334	Dec. 21, 1875	665	219	8	1054
Weather-strip for windows	S. T. Varian	159,867	Feb. 16, 1875	607	201	7	280
Weather-threshold	W. H. Wood	164,503	June 15, 1875	637	206	7	1035
Weather-vane	W. H. Pickering	170,766	Dec. 7, 1875	104	33	8	964
Weather vane and pointer	J. C. Bryan	160,150	Feb. 23, 1875	877	289	7	325
Wedge, Iron	C. McDermott	159,949	Feb. 16, 1875	682	226	7	290
Weed-covering attachment	J. W. Dysard	164,155	June 8, 1875	299	102	7	982
Weed-cutter and hiller	J. Robson	160,545	Mar. 9, 1875	273	93	7	397
Weed-turner	A. J. Mowry and H. Chance	163,881	June 1, 1875	39	13	7	935
Weed-turner	J. B. Thornton, G. H. McDonel, and A. Hale	169,058	Oct. 19, 1875	709	234	8	680
Weeding implement	C. Croit	166,506	Aug. 10, 1875	319	96	8	252
Weft-stop mechanism	T. Isherwood	168,158	Sept. 28, 1875	753	238	8	536
Weighing apparatus, Wagon	J. J. D. Kingsbury	166,389	Aug. 3, 1875	192	57	8	226
Weight and hand-power, Combined body	C. Van De Mark	166,827	Aug. 17, 1875	620	192	8	305
Welding and heating furnaces, Bottom for	W. Small	161,167	Mar. 23, 1875	858		7	492
Welding chain-links, Device for	P. H. Standish	163,949	June 1, 1875	93	31	7	943
Welding chain-links, Machine for	B. Hershey	166,369	Aug. 3, 1875	165	51	8	223
Welding chain-links, Machine for	B. Hershey	166,370	Aug. 3, 1875	166	51	8	223
Welding chain-links, Machine for	B. Hershey	166,371	Aug. 3, 1875	167	51	8	223
Welding chain-links, Machine for	B. Hershey	166,372	Aug. 3, 1875	169	51	8	223
Welding chain-links, Machine for	B. Hershey	166,373	Aug. 3, 1875	171	52	8	223
Welding chain-links, Machine for	B. Hershey	166,374	Aug. 3, 1875	173	52, 53	8	224
Welding chain-links, Machine for	B. Hershey	166,376	Aug. 3, 1875	178	53, 54	8	224
Welding chain-links, Machine for	B. Hershey	166,377	Aug. 3, 1875	179	54	2	224
Welding compound	J., jr., and A. S. Scott	166,816	Aug. 17, 1875	612		8	303
Welding cultivator-axes, Die for	C. H. Thompson	164,610	June 15, 1875	727	237	7	1048
Welding furnace, Pipe	J. Fieldhouse	161,401	Mar. 30, 1875	1102	357	7	531
Welding, hardening, and tempering steel, Compound for	S. Slater	165,378	July 6, 1875	218		8	38
Welding iron and steel, Flux for	D. Miles	165,246	July 6, 1875	97		8	22
Welding plow-irons, Roll for	W. M. Watson	158,657	Jan. 12, 1875	290	97	7	64
Welding plow-irons, Roll for	W. M. Watson	164,621	June 15, 1875	735	240	7	1049
Welding steel, Compound for	E. Anthony and J. Beadle	161,730	Apr. 6, 1875	122	241	7	586
Welding the sag-ends of bars, Device for	J. Sutter	159,468	Feb. 2, 1875	215	69	7	214
Welding tubing, Machine for	G. H. White	166,668	Aug. 10, 1875	459	141	8	272
Well-boring machine	R. H. Metzker	168,099	Sept. 28, 1875	094	219	8	527
Well-curb	C. M. Minor	170,290	Nov. 23, 1875	966	302	8	884
Well drills, Coupling joint for oil	C. B. Wiser	161,082	Mar. 23, 1875	777	256	7	481
Well-drilling apparatus	D. H. Muir	171,406	Dec. 21, 1875	734	241	8	1063
Well, Filter	W. P. Powers	161,546	Mar. 30, 1875	1239	399	7	549
Well, Petroleum	W. L. Hardison	171,563	Dec. 28, 1875	896	293	8	1094
Well, Petroleum	W. L. Hardison	171,615	Dec. 28, 1875	957	310	8	1102
Well, Petroleum	E. M. Stevenson	166,425	Aug. 3, 1875	226	68, 69	8	230
Well, Petroleum	L. Stewart	166,426	Aug. 3, 1875	226	69	8	231
Well point, Drive	D. A. Danforth	161,491	Mar. 30, 1875	1191	382	7	542
Well point, Driven	D. A. Danforth	163,749	May 25, 1875	977	309	7	905
Well-reamer	W. Young	161,190	Mar. 23, 1875	876	288	7	494
Well strainer, Drive	W. C. Macomber	160,692	Mar. 9, 1875	401	134	7	415
Well-tubes, Machinery for perforating	C. L. Travis	162,435	Apr. 20, 1875	788	256	7	601
Well-tubing	W. Patterson	166,136	July 27, 1875	996	307	8	182
Wells, Apparatus for walling	W. H. Beach and G. Marshall	168,707	Oct. 11, 1875	379	124	8	626

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Wells, Bull-wheel for oil.....	J. Schellkopf.....	168,925	Oct. 19, 1875	589	194	8	664
Wells, Constructing.....	C. Holtz.....	171,513	Dec. 28, 1875	852	278	8	1087
Wells, Construction of.....	G. H. Field.....	166,760	Aug. 17, 1875	563	173	8	296
Wells, Grab for removing drills from artesian.....	B. Kent.....	165,676	July 20, 1875	544	166	8	107
Wells, Lining.....	D. L. Newcomb.....	158,434	Jan. 5, 1875	70	25	7	19
Wells, Making artesian and other.....	C. Pontez.....	158,865	Jan. 19, 1875	492	166	7	108
Wells, Method of tubing.....	W. T. Dobbs.....	159,805	Feb. 16, 1875	550	183	7	273
Wells, Packer for shutting off water from oil.....	J. P. Gordon.....	167,400	Sept. 7, 1875	19	6	8	409
Wells, Tool for setting tubes in artesian.....	J. B. Stellwagen.....	167,626	Sept. 14, 1875	232	72	8	445
Welt-cutting and counter-skiving machine.....	S. D. Tripp.....	169,930	Nov. 16, 1875	618	192	8	830
Welt-knife.....	W. R. Barton.....	162,013	Apr. 13, 1875	378	127	7	653
Whalebone, Method of straightening.....	W. H. Ferguson.....	160,411	Mar. 2, 1875	137	48	7	368
Whalebone splitting and dressing machine.....	F. C. Merriman.....	166,711	Aug. 17, 1875	518	159	8	289
Wheat, Apparatus for drying and bleaching ground.....	C. S. Fuller.....	162,910	May 4, 1875	158	52	7	768
Wheat steamer and equalizer.....	D. Sims and J. Hosick.....	167,414	Sept. 7, 1875	32	9	8	411
Wheel:							
See Car-wheel.	Propeller-wheel.						
Carriage-wheel.	Propelling-wheel.						
Crank-wheel.	Pulley or gear wheel.						
Drying-wheel.	Ratchet-wheel.						
Emery-wheel.	Saw-wheel.						
Fifth-wheel.	Sewing-machine feed-wheel.						
Grinding-wheel.	Spinning-wheel.						
Harvester-wheel.	Toy wind-wheel.						
Horizontal wind-wheel.	Traction-wheel.						
Lubricating-wheel.	Turbine wheel.						
Marking-wheel.	Vehicle-wheel.						
Ornamenting and marking wheel.	Wagon-wheel.						
Paddle-wheel.	Watch-wheel.						
Plow-wheel.	Water-wheel.						
Polishing wheel.	Wind-wheel.						
Polishing and grinding wheel.							
Wheelbarrow.....	N. Rolland and J. F. Van Hoorde.....	167,198	Aug. 31, 1875	1011	314	8	374
Whiffletree.....	G. H. Bots and W. H. White.....	161,742	Apr. 6, 1875	132	46	7	588
Whiffletree.....	J. H. Brown.....	162,794	May 4, 1875	57	18	7	754
Whiffletree.....	T. Carroll.....	163,455	May 18, 1875	696	222	7	862
Whiffletree.....	J. R. Finley.....	171,113	Dec. 14, 1875	430	143	8	1015
Whiffletree.....	T. T. Furlong.....	163,862	June 1, 1875	24	8	7	934
Whiffletree.....	W. G. Hearn.....	164,557	June 15, 1875	682	221	7	1042
Whiffletree.....	P. McGlew.....	168,167	Sept. 28, 1875	761	241	8	537
Whiffletree and neck-yoke.....	G. W. Eddy.....	167,322	Aug. 31, 1875	1115	351	8	389
Whiffletree-clip.....	J. A. Ellis.....	160,262	Mar. 2, 1875	7	4	7	350
Whiffletree-coupling.....	B. H. Merriman.....	161,808	Apr. 6, 1875	188	64	7	596
Whiffletree-eye.....	J. Pierpont.....	170,896	Dec. 7, 1875	212	73	8	979
Whiffletree-fastening.....	H. R. Jackson.....	170,738	Dec. 7, 1875	76	24	8	960
Whiffletree-hook.....	E. Maynard.....	171,235	Dec. 21, 1875	578	190	8	1042
Whiffletree-hook.....	O. J. Smith.....	159,851	Feb. 16, 1875	590	195	7	278
Whiffletree hook and clip.....	I. N. Pyle.....	163,945	June 1, 1875	90	30	7	943
Whiffletree-plate.....	B. S. Porter.....	165,176	July 6, 1875	35	10	8	13
Whiffletree trace-fastening.....	J. L. Wingate.....	163,956	June 1, 1875	98	33	7	944
Whip.....	T. J. Bronson and T. N. Jewsbury.....	169,768	Nov. 9, 1875	454	143	8	802
Whip-cane socket joint.....	J. A. Beckler.....	162,605	Apr. 27, 1875	958	308	7	721
Whip-snapper loop.....	H. H. Jones.....	169,550	Nov. 2, 1875	211	69	8	763
Whip-socket.....	H. E. Fowler.....	167,518	Sept. 7, 1875	123	38	8	423
Whip-socket.....	D. A. Kelsey.....	167,258	Aug. 31, 1875	1063	331	8	382
Whip-socket.....	G. M. Rising.....	169,846	Nov. 9, 1875	529	165	8	810
Whip-socket.....	J. M. Underwood.....	161,578	Mar. 30, 1875	1271	408	7	553
Whip-socket clasp.....	E. W. Scott.....	166,724	Aug. 17, 1875	532	163	8	291
Whip-stocks, Chuck for turning.....	C. S. Hartwell.....	168,487	Oct. 5, 1875	150	49	8	586
Whip-tip ferrule.....	E. B. Light.....	159,105	Jan. 26, 1875	744	245	7	148
Whisky, Manufacturing.....	E. Wernick.....	165,392	July 6, 1875	239	.....	8	41
Whistle, Steam.....	H. B. King and C. McKiernan.....	170,274	Nov. 23, 1875	952	298	8	882
Whistle, Steam.....	J. Rieppel.....	166,479	Aug. 10, 1875	298	89	8	249
Wick-raiser.....	H. C. Hart.....	162,286	Apr. 20, 1875	642	210	7	674
Wick-raiser.....	H. G. Moehring.....	163,507	May 18, 1875	750	238	7	868
Wick-trimmer.....	D. T. Bates.....	165,402	July 13, 1875	273	81	8	53
Wind-power.....	J. M. Armour.....	170,326	Nov. 23, 1875	998	313	8	889
Wind-power.....	A. Lowe.....	167,347	Aug. 31, 1875	1138	358	8	392
Wind-wheel.....	L. D. Abrams.....	164,409	June 15, 1875	557	181	7	1025
Wind-wheel.....	A. J. Beckley.....	169,227	Oct. 26, 1875	883	287	8	712
Wind-wheel.....	H. J. Brimhall, jr.....	166,744	Aug. 17, 1875	552	169	8	294
Wind-wheel.....	C. T. Edwards and G. H. Huntoon.....	161,938	Apr. 13, 1875	320	107	7	625
Wind-wheel.....	C. T. Edwards and G. H. Huntoon.....	163,058	May 11, 1875	317	102	7	796
Wind-wheel.....	S. and D. Johnson.....	160,773	Mar. 16, 1875	501	163	7	435
Wind-wheel.....	J. M. Kauffmann.....	160,599	Mar. 9, 1875	320	108	7	404
Wind-wheel.....	J. J. Kimball.....	163,383	May 18, 1875	634	204	7	853
Wind-wheel.....	N. P. Mix.....	160,219	Feb. 23, 1875	937	307	7	333
Wind-wheel frame or turn-table.....	C. T. Edwards and G. H. Huntoon.....	163,057	May 11, 1875	316	102	7	796
Wind-wheel, Turbine.....	L. G. Fellner.....	168,009	Sept. 21, 1875	578	186	8	505
Windlass.....	M. G. Imbach.....	160,675	Mar. 9, 1875	383	130	7	413
Windlass.....	W. H. King.....	166,468	Aug. 10, 1875	229	86	8	247
Windlass.....	I. P. Manton.....	169,182	Oct. 26, 1875	842	275	8	707
Windlass.....	F. S. Rowland.....	160,617	Mar. 9, 1875	335	113	7	406
Windlass and capstan.....	D. N. B. Coffin, jr.....	168,139	Sept. 28, 1875	735	232 } 233 }	8	533
Windlass for barrels, kegs, &c., Friction.....	A. D. Stout.....	170,203	Nov. 23, 1875	889	277	8	874
Windmill.....	S. M. Abbott.....	167,487	Sept. 7, 1875	92	29	8	419
Windmill.....	J. Q. Adams.....	167,050	Aug. 24, 1875	848	264	8	345
Windmill.....	W. H. Aldrich.....	165,292	July 6, 1875	134	40	8	27
Windmill.....	J. A. Allen.....	167,724	Sept. 14, 1875	314	100	8	458

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Windmill.....	J. M. Armour.....	161,318	Mar. 30, 1875	1019	333	7	521
Windmill.....	O. B. Blakeslee.....	160,868	Mar. 16, 1875	580	189	7	446
Windmill.....	W. T. Burrows.....	163,734	May 25, 1875	965	305	7	904
Windmill.....	A. O. Campbell.....	169,890	Nov. 16, 1875	584	181	8	825
Windmill.....	M. Carter.....	170,052	Nov. 16, 1875	720	228 229	8	844
Windmill.....	J. D. Christie.....	166,501	Aug. 10, 1875	315	95	8	251
Windmill.....	J. Cook.....	168,881	Oct. 19, 1875	542	178	8	657
Windmill.....	W. F. Cornelius.....	170,992	Dec. 14, 1875	324	107	8	1001
Windmill.....	M. Crossman.....	170,063	Nov. 16, 1875	732	232 233	8	846
Windmill.....	M. D. Cummins.....	170,663	Dec. 7, 1875	8	3	8	952
Windmill.....	J. Cushman.....	163,581	May 25, 1875	833	263	7	887
Windmill.....	G. Desbrough.....	164,271	June 8, 1875	410	137	7	997
Windmill.....	E. Dewald.....	165,715	July 20, 1875	578	176 177	8	112
Windmill.....	C. H. Eggleston and W. M. Phelps	162,636	Apr. 27, 1875	982	315 316	7	724
Windmill.....	C. Gates.....	166,982	Aug. 24, 1875	785	242	8	336
Windmill.....	M. Gore.....	162,228	Apr. 20, 1875	593	194	7	667
Windmill.....	A. and W. Graf.....	160,588	Mar. 9, 1875	309	105	7	402
Windmill.....	W. A. Guzman.....	165,326	July 6, 1875	167	51	8	32
Windmill.....	J. Hall.....	162,062	Apr. 13, 1875	421	140 141	7	638
Windmill.....	A. N. Hollembeak.....	170,564	Nov. 30, 1875	1231	387	8	929
Windmill.....	S. D. Hopkins.....	158,588	Jan. 12, 1875	227	76	7	55
Windmill.....	T. Kellogg.....	166,011	July 27, 1875	876	270	8	165
Windmill.....	D. Lampson.....	170,676	Dec. 7, 1875	20	6, 7	8	953
Windmill.....	G. Lauby.....	164,923	June 29, 1875	1048	338	7	1106
Windmill.....	I. Lehmer.....	163,669	May 25, 1875	908	288	7	897
Windmill.....	G. H. Lucas.....	160,922	Mar. 16, 1875	627	204	7	452
Windmill.....	W. W. Marsh.....	163,597	May 25, 1875	849	268	7	888
Windmill.....	J. M. May.....	168,574	Oct. 11, 1875	259	84, 85	8	308
Windmill.....	J. McGovern.....	165,013	June 29, 1875	1124	363	7	1115
Windmill.....	W. C. Nelson.....	169,724	Nov. 9, 1875	404	127 128	8	795
Windmill.....	J. C. Orniston and E. S. Seger.....	168,917	Oct. 19, 1875	581	191 192	8	663
Windmill.....	D. L. Osborn.....	170,640	Nov. 30, 1875	1306	412	8	939
Windmill.....	A. T. Page.....	171,630	Dec. 28, 1875	974	315	8	1104
Windmill.....	W. D. Parson.....	159,207	Jan. 26, 1875	834	274	7	161
Windmill.....	A. and G. Raymond.....	160,060	Feb. 23, 1875	805	264	7	314
Windmill.....	A. and G. Raymond.....	160,953	Mar. 16, 1875	655	214	7	456
Windmill.....	R. N. Rockwell.....	165,873	July 20, 1875	731	223	8	133
Windmill.....	G. F. Rounds.....	160,237	Feb. 23, 1875	952	312 313	7	336
Windmill.....	J. Sanders.....	165,030	June 29, 1875	1137	367	7	1117
Windmill.....	P. Sheckler and H. W. Bolender	160,620	Mar. 9, 1875	338	114	7	406
Windmill.....	A. H. Southwick.....	160,794	Mar. 16, 1875	522	168	7	437
Windmill.....	L. E. Stephens and S. F. Shay.....	168,294	Sept. 28, 1875	870	278	8	552
Windmill.....	D. C. Stover.....	165,272	July 6, 1875	117	35	8	25
Windmill.....	W. F. Veber.....	171,593	Dec. 28, 1875	924	302 303	8	1098
Windmill.....	W. Walker.....	165,634	July 13, 1875	491	150	8	85
Windmill.....	D. G. Webster.....	162,724	Apr. 27, 1875	1084	344	7	736
Windmill.....	B. Weirich.....	164,623	June 15, 1875	737	241	7	1050
Windmill.....	A. Willson.....	168,950	Oct. 19, 1875	606	201	8	667
Windmill and watering apparatus.....	E. Richardson and P. Harkness.....	165,505	July 13, 1875	371	110	8	67
Windmill attachment.....	H. Weld.....	167,964	Sept. 21, 1875	538	172	8	499
Windmill-governor.....	W. L. Oliver.....	159,768	Feb. 16, 1875	513	172	7	269
Windmill-power.....	W. E. Short.....	169,051	Oct. 19, 1875	703	232	8	679
Window.....	J. A. Holmes.....	171,479	Dec. 28, 1875	817	268	8	1083
Window.....	M. F. Lyons.....	164,194	June 8, 1875	333	114	7	987
Window-bead fastener.....	A. F. Werner.....	167,207	Aug. 31, 1875	1019	317	8	375
Window-bracket hook.....	N. Plympton.....	160,710	Mar. 9, 1875	418	139	7	417
Window-conservatory.....	J. T. Crawford.....	158,656	Jan. 12, 1875	313	106	7	68
Window-frame.....	J. F. Ebert.....	166,690	Aug. 17, 1875	499	152	8	286
Window-frame.....	E. Roth.....	165,510	July 13, 1875	377	112	8	68
Window-platform.....	A. T. Large.....	165,594	July 13, 1875	451	137	8	79
Window-scaffold.....	H. Kruger, jr.....	168,401	Oct. 5, 1875	74	26	8	575
Window-scaffold.....	G. Roberts.....	170,115	Nov. 16, 1875	782	248	8	852
Window-screen.....	A. A. Carter.....	167,220	Aug. 31, 1875	1030	320	8	377
Window-screen.....	J. E. Chase.....	167,386	Sept. 7, 1875	5	2	8	407
Window-screen.....	G. W. Heimbach.....	167,100	Aug. 24, 1875	901	281	8	352
Window-screen.....	J. Knowles.....	162,391	Apr. 20, 1875	746	243	7	686
Window-screen.....	L. D. Lockwood.....	161,419	Mar. 30, 1875	1117	361	7	533
Window-screen.....	S. Parker.....	164,691	June 22, 1875	813	266	7	1068
Window-screen.....	H. B. Walbridge.....	169,210	Oct. 26, 1875	862	281	8	710
Window-screen.....	H. B. Walbridge.....	170,034	Nov. 16, 1875	702	222	8	842
Window-shade clasp or fastener.....	H. M. Wells.....	167,810	Sept. 14, 1875	400	128	8	470
Window-shade fixture.....	C. de Quillfeldt.....	159,803	Feb. 16, 1875	548	182	7	273
Window-shade fixture.....	L. C. Hoffmeister, jr.....	162,653	Apr. 27, 1875	999	321	7	726
Window-shade roller.....	A. Roelofs.....	170,401	Nov. 23, 1875	1067	336	8	898
Window-shutter.....	W. O. Conner.....	166,218	Aug. 3, 1875	31	10	8	203
Window-sill.....	J. L. Rowland.....	860,284	Mar. 2, 1875	25	10	7	352
Window-ventilator.....	S. W. Couch.....	159,800	Feb. 16, 1875	546	182	7	272
Window-ventilator.....	G. Nicholson.....	160,458	Mar. 2, 1875	181	63	7	374
Window-ventilator.....	G. Wagner.....	160,066	Feb. 23, 1875	809	266	7	315
Window-washer.....	C. H. Smith.....	162,318	Apr. 20, 1875	671	219	7	677
Windows, Dust-trap for bulk.....	S. A. Wight.....	161,312	Mar. 23, 1875	997	326	7	510
Wire-cap-finishing machine.....	A. de Mestre.....	166,076	July 27, 1875	935	289	8	173
Wire-cap-making machine.....	A. de Mestre.....	166,075	July 27, 1875	934	289	8	173
Wire-cloth, Process for producing multicolored designs on.....	G. K. Hoffman.....	169,640	Nov. 9, 1875	320		8	784
Wire fabric.....	G. S. Bracher.....	163,448	May 18, 1875	689	220	7	861

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Wire fabric	A. C. Garrett	169,986	Nov. 16, 1875	662	208	8	836
Wire-feeding mechanism	R. L. Brewer	169,081	Oct. 26, 1875	751	245	8	694
Wire, Machine for indenting the surface of	T. T. Prosser	169,840	Nov. 9, 1875	523	163	8	809
Wire, Machine for screw-threading	L. Goddu	167,760	Sept. 14, 1875	351	112	8	463
Wire, Machine for threading and inserting	S. E. Shute, jr.	170,689	Dec. 7, 1875	34	10	8	955
Wire, Manufacture of	W. L. Reynolds	159,610	Feb. 9, 1875	351		7	241
Wire-rolling machine	J. and S. Law	165,341	July 6, 1875	181	55	8	34
Wire-rope	F. W. Roebling	171,634	Dec. 28, 1875	978	317	8	1105
Wire-stand	J. H. Bigelow	161,199	Mar. 23, 1875	883	290	7	495
Wire-straightening machine	C. P. S. Wardwell	166,953	Aug. 24, 1875	757	234	8	332
Wire, Strapping packages with	N. O. Hynson	170,953	Dec. 14, 1875	883	95	8	996
Wire-stretcher	H. Miles	165,019	June 29, 1875	1128	364	7	1116
Wire-twisting machine	A. De Mestre	162,042	Apr. 13, 1875	402	135 136	7	636
Wireway	A. A. Smith	159,973	Feb. 16, 1875	702	233 234	7	293
Wireway, Endless	A. S. Hallidie	162,915	May 4, 1875	162	53	7	768
Wood bales, Kindling	J. Rowbotham	167,124	Aug. 24, 1875	921	287	8	355
Wood-drier	J. M. Dick	167,074	Aug. 24, 1875	871	272	8	348
Wood-filling compound	H. L. Dorr and H. Seyfret	160,010	Feb. 23, 1875	760		7	308
Wood-polishing machine	S. G. Randall	159,216	Jan. 26, 1875	845	276	7	162
Wood-preserving apparatus	G. B. Smith	160,846	Mar. 16, 1875	562	182	7	443
Wood-preserving compound	P. Werni	164,786	June 22, 1875	898		7	1080
Wood, Press-plate for drying and bending	S. Swartz	170,915	Dec. 7, 1875	229	79	8	981
Wood, Process of preserving	L. S. Robbins	165,758	July 20, 1875	613	189	8	118
Wood-splitter	W. Latus	168,649	Oct. 11, 1875	331	107	8	619
Woods, Process of making imitation	G. V. Hann	166,000	July 27, 1875	966		8	163
Wooden box	C. Rosborg and A. Kawan	169,297	Oct. 26, 1875	949	307	8	721
Wooden box heads, Machine for making	E. Hersey	169,700	Nov. 9, 1875	382	120	8	793
Wooden boxes, Manufacture of	A. Robinson	159,042	Jan. 26, 1875	687	227	7	140
Wooden house	M. Rogers	163,888	June 1, 1875	44	15	7	936
Wooden mats, Making	J. M. Hall	163,986	June 1, 1875	122	41	7	948
Wooden pins, Machine for making	G. W. Conlee	164,526	June 15, 1875	657	212	7	1038
Wooden pins, Machine for making	S. S. Eskey	160,172	Feb. 23, 1875	895	295	7	338
Wool-mixing machine	S. R. Parkhurst	163,687	May 25, 1875	922	293	7	898
Wool, &c., to free them from impurities, Treating	O. Braun	162,729	May 25, 1875	960		7	903
Wool-washing machine	J. K. Proctor	163,249	May 11, 1875	493	160	7	818
Wool-washing machine	J. K. Proctor	163,250	May 11, 1875	494	160	7	818
Wool-washing machine	J. K. Proctor and C. R. Lindsay	163,251	May 11, 1875	495	161	7	819
Work-table	J. Cannon	169,658	Nov. 16, 1875	640	199	8	833
Work-table, Folding	B. Fairchild	164,824	June 22, 1875	937	303	7	1084
Wrapper	O. H. Moulton, A. M. Damon, and I. L. G. Rice.	169,568	Nov. 2, 1875	229	75	8	765
Wrench:							
See Dynamic wrench.	Pipe and nut wrench.						
Gas-wrench.	Ratchet-wrench.						
Pipe-wrench.	Screw-wrench.						
Wrench	R. S. Battles	165,655	July 20, 1875	525	161	8	105
Wrench	O. T. Bedell	158,668	Jan. 12, 1875	297	101	7	66
Wrench	M. E. Campfield	166,587	Aug. 10, 1875	385	119	8	262
Wrench	T. F. Dunn	166,514	Aug. 10, 1875	326	99	8	253
Wrench	G. W. Freeman	161,022	Mar. 23, 1875	723	238	7	474
Wrench	I. W. Heysinger	164,453	June 15, 1875	595	193	7	1030
Wrench	R. Jack	169,812	Nov. 9, 1875	496	156	8	807
Wrench	B. F. Joslyn	170,089	Nov. 16, 1875	761	240	8	849
Wrench	B. F. Joslyn	170,860	Dec. 7, 1875	181	62	8	975
Wrench	A. B. Lipsey	169,557	Nov. 2, 1875	217	71	8	764
Wrench	R. H. McCormick and W. R. Baker.	166,020	July 27, 1875	884	273	8	166
Wrench	J. H. Morrissey	167,012	Aug. 24, 1875	818	254	8	340
Wrench	J. Norton	164,867	June 22, 1875	979	316	7	1089
Wrench	H. Port	170,492	Nov. 30, 1875	1163	367	8	920
Wrench	S. E. Robinson	159,119	Jan. 26, 1875	757	249	7	150
Wrench	J. Rost	162,500	Apr. 27, 1875	873	279	7	710
Wrench	P. Samuel	166,814	Aug. 17, 1875	611	189	8	303
Wrench	H. R. Sloat	162,317	Apr. 20, 1875	671	219	7	677
Wrench	L. O. Veber	166,665	Aug. 10, 1875	457	140	8	271
Wrench	B. L. Walker	158,548	Jan. 5, 1875	171	58	7	33
Wrench	R. J. Welles	167,717	Sept. 14, 1875	308	98	8	457
Wrench	J. L. Whipple	160,981	Mar. 16, 1875	678	223	7	459
Wrench	E. Wiard	168,360	Oct. 5, 1875	38	14	8	570
Wrench-bars, &c., Die for forming	A. G. Coes	167,825	Sept. 21, 1875	424	135	8	482
Wringer:							
See Clothes-wringer.	Mop-wringer.						
Wringer	L. Becker	165,057	June 29, 1875	1161	374	7	1121
Wringer	H. A. Buck	168,716	Oct. 11, 1875	385	126	8	627
Wringer	T. H. Deckerson	168,727	Oct. 11, 1875	393	129	8	628
Wringer	A. W. and A. E. Hall	161,781	Apr. 6, 1875	163	56	7	592
Wringer	C. E. Haynes	166,459	Aug. 10, 1875	282	84	8	246
Wringer	T. E. McDonald	162,935	May 4, 1875	183	60	7	771
Wringer	D. W. Norris and N. E. Woods	167,015	Aug. 24, 1875	820	255	8	341
Wringer	M. A. Richardson	165,754	July 20, 1875	619	188	8	117
Wringer	J. Smith	170,121	Nov. 16, 1875	788	250	8	853
Wringer	J. A. Wilson	170,977	Dec. 14, 1875	309	103	8	999
Wringer-roll	R. W. Rexford	163,107	May 11, 1875	362	118	7	802
Wringing-machine	C. A. Eisenhart and E. E. Lauer	163,645	May 25, 1875	890	281 282	7	894
Wrought-iron-pipe joint	G. Lander	158,953	Jan. 19, 1875	579	192	7	106
Y.							
Yarn-beam	J. A. Gould	165,666	July 20, 1875	535	163	8	106
Yarn-exhibiting case	H. J. Millmann	165,018	June 29, 1875	1128	364	7	1116
Yarn, Machine for balling	L. C. Billings	165,978	July 27, 1875	846	260	8	161
Yarn-printing machine	J. Short	168,932	Oct. 19, 1875	593	196	8	665

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Yarn, Putting up.....	G. P. Farmer.....	164,284	June 8, 1875	421	141	7	998
Yarn-sizing composition.....	J. W. Walters.....	168,435	Oct. 5, 1875	100		8	579
Yarn-spooling machine.....	A. M. Wade.....	168,066	Sept. 21, 1875	649	206	8	514
Yarn, thread, &c., finishing machine.....	S. G. Rhodes, M. Shillito, and J. J. Speed.	169,374	Nov. 2, 1875	53	16	8	742
Yarn to set the twist, Treating.....	D. Wright.....	165,779	July 20, 1875	634	195	8	120
Yarns, Method of manufacturing tufted.....	H. Bottomley.....	169,139	Oct. 26, 1875	807	262	8	701
Yeast-compound.....	J. Pfeiffer.....	169,474	Nov. 2, 1875	137	.....	8	754
Yoke coupling, Neck.....	N. E. Irish.....	167,768	Sept. 14, 1875	362	115	8	464
Yoke, Horse.....	J. Boyer.....	170,514	Nov. 30, 1875	1186	374	8	923
Yoke, Horse.....	R. Stratton and G. Olmstead.....	161,988	Apr. 13, 1875	359	120	7	630
Yoke, Neck.....	C. R. Moon.....	162,249	Apr. 20, 1875	611	199	7	669
Yoke, Neck.....	J. B. Relyea.....	159,217	Jan. 26, 1875	846	276	7	162
Yoke, Neck.....	C. Shuman.....	169,487	Nov. 2, 1875	148	48	8	755
Z.							
Zinc from its ores, Distilling.....	G. E. Moore.....	170,760	Dec. 7, 1875	97	.....	8	963
Zinc, Process of making white oxide of.....	J. G. Trotter.....	163,704	May 25, 1875	935	297	7	900

ALPHABETICAL LIST OF DESIGNS.

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A.					
Agricultural boiler	W. C. Davis	8,047	Feb. 9, 1875	7	223
Album cover, Autograph	W. Wallach	8,763	Oct. 26, 1875	8	689
Albums, Leaves of	W. Mayer	8,494	July 20, 1875	8	95
Alto-relievo	J. Christl	8,212	Mar. 23, 1875	7	466
Alto-relievo	W. B. Gleason	8,066	Feb. 16, 1875	7	261
Aquarium	J. W. Fiske	8,058-8,061	Feb. 16, 1875	7	261
Aquarium	J. W. Fiske	8,206	Mar. 16, 1875	7	42
B.					
Badge	H. C. Lees	8,278	Apr. 20, 1875	7	651
Badge	J. S. Littell	8,591	Aug. 31, 1875	8	364
Badge, Lawyer's	S. L. Harmon	8,371	June 1, 1875	7	926
Beer-mug	J. E. Miller	8,290	Apr. 27, 1875	7	701
Beer-mug, ale-glass, &c	T. C. Pears	8,390	June 15, 1875	7	1013
Bell, Call	H. S. Kerr	8,222	Mar. 23, 1875	7	466
Belt, Waist	W. C. Shimoneck	8,652	Sept. 14, 1875	8	439
Bird-cage and hanging-basket hook	F. T. Fracker	8,562	Aug. 10, 1875	8	241
Bird-house	J. White	8,427	June 22, 1875	7	1057
Boa	G. H. Prindle	8,034	Jan. 26, 1875	7	133
Boa	G. H. Prindle	8,645	Sept. 7, 1875	8	403
Book or secretary case	H. S. Kerr	8,741	Oct. 19, 1875	8	645
Boot and shoe webbing	J. A. Greene	8,760	Oct. 26, 1875	8	689
Boots and shoes, Ornamentation of rubber	A. R. Trotter	8,255-8,256	Mar. 30, 1875	7	516
Bottle	E. R. Durkee	7,988	Jan. 5, 1875	7	5
Bottle	G. Jaques	8,708	Oct. 11, 1875	8	600
Bottle	G. C. Owens	8,666	Sept. 28, 1875	8	521
Bottle	B. Simon	8,849	Dec. 14, 1875	8	988
Bottle	J. Truax	8,417	June 22, 1875	7	1057
Bottle	F. S. Upton	8,064	Feb. 16, 1875	7	261
Bottle, Druggist's shop	W. R. Warner	8,670-8,671	Sept. 28, 1875	8	521
Bottle, Mustard	J. Gulden	8,207	Mar. 16, 1875	7	427
Bottle, Nursing	V. H. Smith	7,992	Jan. 5, 1875	7	5
Bottle, Perfumery	F. Storm	8,227	Mar. 23, 1875	7	466
Bottle, Perfumery	G. Storm	8,210	Mar. 16, 1875	7	427
Bouquet-holder or vase	J. Hoare	8,187	Mar. 2, 1875	7	345
Box	J. H. England	8,800	Nov. 23, 1875	8	862
Bracket	C. Herter	8,694-8,695	Oct. 5, 1875	8	561
Breastpin	L. S. Beals	8,203	Mar. 9, 1875	7	387
Breastpin	L. S. Beals	8,274-8,275	Apr. 20, 1875	7	651
Breastpin	L. S. Beals	8,406-8,408	June 22, 1875	7	1056
Breastpin	S. Pfaelzer	8,878	Dec. 28, 1875	8	1076
Breastpin and pendant	L. S. Beals	8,201-8,202	Mar. 9, 1875	7	387
Breastpin and pendant	L. S. Beals	8,298-8,300	Apr. 27, 1875	7	701
Broom-heads, Neck of	C. Van Slyck and H. S. De Forest	8,487	July 13, 1875	8	49
Brushes, Back of leather	W. H. Humphrey	8,260-8,261	Apr. 13, 1875	7	610
Burial-casket	F. A. Field	8,338	May 25, 1875	7	879
Burial-caskets, Ornament for	W. M. Reid	8,335	May 18, 1875	7	837
Burner, Gas	M. Stewart	8,490	July 20, 1875	8	95
Bust, (Shakespeare)	W. Page	8,688	Oct. 5, 1875	8	561
Button	J. R. Farrell	8,794	Nov. 16, 1875	8	819
Button	J. R. Smith	8,384	June 8, 1875	7	968
Button and stud, Sleeve	T. G. Brown	8,811-8,812	Nov. 30, 1875	8	909
Buttons, Card of	G. P. Farmer	8,443	June 29, 1875	7	1098
C.					
Calendar	J. E. Blythe	8,740	Oct. 19, 1875	8	645
Can, &c., handle	H. Miller	8,570	Aug. 17, 1875	8	281
Candlestick	W. H. Roby	8,719	Oct. 19, 1875	8	645
Cane, &c., handle	T. R. Lovett	8,662	Sept. 21, 1875	8	475
Cap	M. Isidor and F. Hein	8,651	Sept. 14, 1875	8	439
Carbureter for gas-burners	M. B. Dyott	8,048	Feb. 9, 1875	7	223
Card border, Pictorial	M. Bolton, jr	8,693	Oct. 5, 1875	8	561
Cards, Pack of playing	J. D. D. Mortimer	8,865	Dec. 21, 1875	8	1034
Carpet	R. Allan	7,986	Jan. 5, 1875	7	5
Carpet	R. Allan	8,045-8,046	Feb. 9, 1875	7	222
Carpet	R. Allan	8,428-8,430	June 29, 1875	7	1098
Carpet	T. Barclay	8,594-8,595	Sept. 7, 1875	8	403
Carpet	J. Barrett	8,747	Oct. 26, 1875	8	689
Carpet	J. Barrett	8,770	Nov. 9, 1875	8	776
Carpet	R. R. Campbell	7,970-7,976	Jan. 5, 1875	7	5
Carpet	R. R. Campbell	8,233-8,236	Mar. 30, 1875	7	516
Carpet	J. M. Christie	7,977-7,981	Jan. 5, 1875	7	5
Carpet	J. M. Christie	8,344-8,351	May 25, 1875	7	879
Carpet	J. M. Christie	8,610-8,635	Sept. 7, 1875	8	403
Carpet	J. Fisher	8,560	Aug. 10, 1875	8	241
Carpet	H. F. Goetze	8,001	Jan. 12, 1875	7	48
Carpet	H. F. Goetze	8,162	Feb. 23, 1875	7	302
Carpet	H. F. Goetze	8,330	May 18, 1875	7	837
Carpet	H. F. Goetze	8,444-8,445	June 29, 1875	7	1093
Carpet	H. F. Goetze	8,598	Sept. 7, 1875	8	403

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Carpet.	H. F. Goetze	8, 874-8, 875	Dec. 28, 1875	8	1076
Carpet.	F. W. Green	8, 072	Feb. 23, 1875	7	302
Carpet.	E. Guiraud	8, 237-8, 239	Mar. 30, 1875	7	516
Carpet.	E. Guiraud	8, 599-8, 603	Sept. 7, 1875	8	403
Carpet.	A. Heald	8, 197-8, 198	Mar. 9, 1875	7	387
Carpet.	A. Heald	8, 208	Mar. 16, 1875	7	427
Carpet.	A. Heald	8, 564-8, 566	Aug. 17, 1875	8	281
Carpet.	A. Heald	8, 586-8, 589	Aug. 21, 1875	8	364
Carpet.	O. Heinigke	8, 073-8, 106	Feb. 23, 1875	7	302
Carpet.	O. Heinigke	8, 499-8, 523	July 27, 1875	8	148
Carpet.	O. Heinigke	8, 677-8, 679	Oct. 5, 1875	8	560
Carpet.	J. E. Hill and W. H. Deacon	8, 606	Sept. 7, 1875	8	403
Carpet.	H. Horan	8, 107-8, 125	Feb. 23, 1875	7	302
Carpet.	H. Horan	8, 524-8, 527	July 27, 1875	8	148
Carpet.	H. Horan	8, 680-8, 684	Oct. 5, 1875	8	560
Carpet.	W. Kerr	8, 590	Aug. 31, 1875	8	364
Carpet.	J. C. G. Libert	8, 378	June 8, 1875	7	968
Carpet.	A. Lilley	8, 607	Sept. 7, 1875	8	403
Carpet.	C. S. Lilley	7, 983-7, 984	Jan. 5, 1875	7	5
Carpet.	C. S. Lilley	8, 248	Mar. 30, 1875	7	516
Carpet.	L. G. Malkin	8, 126-8, 131	Feb. 23, 1875	7	302
Carpet.	L. G. Malkin	8, 528	July 27, 1875	8	148
Carpet.	A. Martin	8, 333	May 18, 1875	7	837
Carpet.	S. McDowell	8, 216	Mar. 23, 1875	7	466
Carpet.	D. McNair	8, 249-8, 250	Mar. 30, 1875	7	516
Carpet.	D. McNair	8, 608-8, 609	Sept. 7, 1875	8	403
Carpet.	E. J. Ney	8, 132-8, 151	Feb. 23, 1875	7	302
Carpet.	E. J. Ney	8, 535-8, 545	July 27, 1875	8	149
Carpet.	E. J. Ney	8, 687	Oct. 5, 1875	8	560
Carpet.	H. Nordmann	8, 152-8, 159	Feb. 23, 1875	7	302
Carpet.	E. Petit	7, 989-7, 991	Jan. 5, 1875	7	5
Carpet.	G. W. Piggott	8, 160	Feb. 23, 1875	7	302
Carpet.	A. Redfern	8, 062	Feb. 16, 1875	7	261
Carpet.	A. Redfern	8, 218-8, 219	Mar. 23, 1875	7	466
Carpet.	J. H. Smith	8, 167-8, 176	Feb. 23, 1875	7	302 303
Carpet.	J. H. Smith	8, 546-8, 547	July 27, 1875	8	149
Carpet.	W. H. Smith	8, 177-8, 179	Feb. 23, 1875	7	303
Carpet.	W. H. Smith	8, 548-8, 549	July 27, 1875	8	149
Carpet.	T. J. Stearns	8, 003	Jan. 12, 1875	7	48
Carpet.	T. J. Stearns	8, 192	Mar. 2, 1875	7	345
Carpet.	T. J. Stearns	8, 253	Mar. 30, 1875	7	516
Carpet.	T. J. Stearns	8, 404-8, 405	June 15, 1875	7	1014
Carpet.	T. J. Stearns	8, 457	July 6, 1875	8	4
Carpet.	T. J. Stearns	8, 561	Aug. 10, 1875	8	241
Carpet.	T. J. Stearns	8, 691	Oct. 5, 1875	8	561
Carpet.	T. J. Stearns	8, 780	Nov. 9, 1875	8	776
Carpet.	T. J. Stearns	8, 798	Nov. 16, 1875	8	819
Carpet.	T. J. Stearns	8, 883	Dec. 28, 1875	8	1076
Carpet.	C. W. Swapp	7, 985	Jan. 5, 1875	7	5
Carpet.	C. W. Swapp	8, 252	Mar. 30, 1875	7	516
Carpet.	C. W. Swapp	8, 637-8, 642	Sept. 7, 1875	7	403
Carpet.	J. T. Webster	8, 027-8, 033	Jan. 26, 1875	7	133
Carpet.	J. T. Webster	8, 467-8, 480	July 13, 1875	8	48
Carpet fastener, Head of stair	M. Krickl	8, 854	Dec. 21, 1875	8	1034
Carriage, Child's	L. B. Harrington	8, 664	Sept. 28, 1875	8	520
Cassimere	E. C. Clark	8, 418	June 22, 1875	7	1057
Cassimere	E. C. Clark	8, 821	Dec. 7, 1875	8	945
Cassimere fabric, Fancy	F. S. Bosworth	8, 263-8, 264	Apr. 13, 1875	7	610
Cassimere, Fancy	F. S. Bosworth	8, 007	Jan. 12, 1875	7	48
Cassimere, Fancy	F. S. Bosworth	8, 052	Feb. 9, 1875	7	223
Cassimere, Fancy	F. S. Bosworth	8, 315-8, 316	May 11, 1875	7	782
Cassimere, Fancy	F. S. Bosworth	8, 675-8, 676	Oct. 5, 1875	8	560
Cassimere, Fancy	W. A. Walton	8, 692	Oct. 5, 1875	8	561
Cassimere, Fancy	W. B. Weeden	8, 323	May 11, 1875	7	783
Cassimere, Fancy	W. B. Weeden	8, 592	Aug. 31, 1875	8	364
Cast	J. W. Fiske	8, 213-8, 214	Mar. 23, 1875	7	466
Casting	A. P. Reger	8, 649	Sept. 14, 1875	8	439
Center-piece	H. Berger	8, 492	July 20, 1875	8	95
Center-piece	S. Kellett	8, 013-8, 017	Jan. 19, 1875	7	93
Chain-link	D. A. Beam	8, 786	Nov. 9, 1875	8	777
Chain link, Watch	E. E. Barrows	8, 785	Nov. 9, 1875	8	777
Chair	J. H. Hooper and T. Johnsen	8, 554	Aug. 3, 1875	8	194
Chandelier	C. Herter	8, 699	Oct. 5, 1875	8	561
Chandelier	F. R. Seidensticker	8, 042-8, 043	Feb. 2, 1875	7	181
Chandeliers, Bracket-cup for	J. Kintz	8, 053	Feb. 9, 1875	7	223
Chapeau-block	T. Agens and J. C. Post	8, 386	June 15, 1875	7	1013
Cigar-box	F. Haehnel and H. Norman	8, 497	July 27, 1875	8	148
Cigar-box	M. Hilson	8, 657	Sept. 21, 1875	8	475
Cigar-box	M. Moll	8, 068	Feb. 16, 1875	7	261
Cigar-box	H. Zimmermann	8, 357	May 25, 1875	7	879
Cigar-lighter	F. R. Seidensticker	8, 880	Dec. 28, 1875	8	1076
Clip or fastener for suspending cards	G. W. McGill	8, 258	Apr. 6, 1875	7	564
Clip or fastener for suspending cards	G. W. McGill	8, 309	May 4, 1875	7	742
Clock and mirror frame, Combined	H. J. Davies	8, 019	Jan. 26, 1875	7	133
Clock-case	H. J. Müller	8, 742	Oct. 19, 1875	8	645
Clock-case	H. J. Müller	8, 789	Nov. 9, 1875	8	777
Clock-case	W. F. Muller	8, 557	Aug. 3, 1875	8	194
Clock-case door	L. E. Jerome	8, 569	Aug. 17, 1875	8	281
Clothing, Fabric for	E. C. Clark	8, 550-8, 553	July 27, 1875	8	149
Coat and hat hook	F. T. Fracker	8, 329	May 18, 1875	7	837
Coffee-mill	J. Girard	8, 597	Sept. 7, 1875	8	403
Coffin-handle	M. H. Crane	8, 395	June 15, 1875	7	1014
Coffin-handle	W. M. Smith	8, 199	Mar. 9, 1875	7	38
Coffin-handle base	W. M. Smith	8, 791	Nov. 9, 1875	8	777

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Coffin-handle socket.....	R. H. Burr.....	8,039	Feb. 2, 1875	7	181
Coffin-handle socket.....	J. R. Mackay.....	8,067	Feb. 16, 1875	7	261
Coffin-handle socket.....	G. Rogers.....	8,327	May 11, 1875	7	783
Coffin-handle-socket base.....	W. M. Smith.....	8,882	Dec. 28, 1875	8	1076
Coffin-handle tip.....	G. Rogers.....	8,709	Oct. 11, 1875	8	600
Coffin-plate.....	W. Parkin.....	8,448	June 29, 1875	7	1098
Coffin-plate.....	W. Parkin.....	8,453	July 6, 1875	8	4
Coffin-plate.....	C. B. Rogers.....	8,765	Nov. 2, 1875	8	729
Coffin-plate.....	W. M. Smith.....	8,056	Feb. 9, 1875	7	223
Collar and cuff box.....	L. Tim.....	8,860	Dec. 21, 1875	8	1034
Comb.....	G. G. Miller.....	8,413	June 22, 1875	7	1056
Comb, Back.....	W. C. Shimoneck.....	8,653	Sept. 14, 1875	8	439
Comb, Band.....	B. F. Britton.....	8,867	Dec. 28, 1875	8	1076
Comb, Band.....	E. M. Drake.....	8,872	Dec. 28, 1875	8	1076
Crochet-pattern.....	W. Steinhaus.....	8,753-8,754	Oct. 26, 1875	8	689
Crochet-pattern.....	W. Steinhaus.....	8,781	Nov. 9, 1875	8	776
Cuff-button.....	L. S. Beals.....	8,312	May 4, 1875	7	742
Cutlery handle, Table.....	E. L. Brittin.....	8,846	Dec. 14, 1875	8	988
Cutlery, Table.....	J. D. Frary.....	8,817	Nov. 30, 1875	8	909
D.					
Dental-tool stand.....	S. S. White.....	8,193	Mar. 2, 1875	7	345
Desk.....	C. Richter.....	8,416	June 22, 1875	7	1057
Desk, Advertising.....	W. T. Bromwell.....	7,969	Jan. 5, 1875	7	5
Desk, Advertising.....	G. E. Carhart.....	8,008	Jan. 19, 1875	7	93
Desk, Advertising.....	J. S. Morgan.....	8,703	Oct. 5, 1875	8	561
Dinner, tea, and toilet sets, Handle for.....	C. F. Haviland.....	8,665	Sept. 28, 1875	8	520
Dish.....	S. B. Close.....	8,221	Mar. 23, 1875	7	466
Door-plate.....	J. Capron.....	8,759	Oct. 26, 1875	8	689
Drawer-pull.....	O. F. Fogelstrand.....	8,194	Mar. 9, 1875	7	387
Drawer-pull.....	E. J. Steele.....	8,712	Oct. 11, 1875	8	600
Drinking-fountain.....	J. W. Fiske.....	8,488	July 20, 1875	8	95
Drinking-fountain.....	W. Tweeddale.....	8,392	June 15, 1875	7	1014
Drinking-vessel.....	M. D. Connolly.....	8,302	Apr. 27, 1875	7	701
E.					
Electro-magnetic machine, Metal case for.....	W. H. Burnap.....	8,451	July 6, 1875	8	3
Embroidery-pattern.....	E. Crisand.....	8,265-8,268	Apr. 13, 1875	7	610
Embroidery-pattern.....	E. Crisand.....	8,318-8,320	May 11, 1875	7	782
Embroidery-pattern.....	E. Crisand.....	8,411-8,412	June 22, 1875	7	1056
Embroidery-pattern.....	E. Crisand.....	8,461	July 6, 1875	8	4
Embroidery-pattern.....	E. Crisand.....	8,572-8,573	Aug. 24, 1875	8	322
Embroidery-pattern.....	E. Crisand.....	8,705	Oct. 5, 1875	8	561
Embroidery-pattern.....	E. Crisand.....	8,795	Nov. 16, 1875	8	819
Embroidery-pattern.....	E. Crisand.....	8,828-8,829	Dec. 7, 1875	8	945
Embroidery-pattern.....	W. Steinhaus.....	8,721-8,739	Oct. 19, 1875	8	645
Embroidery-pattern.....	W. Steinhaus.....	8,749-8,752	Oct. 26, 1875	8	689
Embroidery, Pattern-sheet for.....	W. Steinhaus.....	8,825-8,826	Dec. 7, 1875	8	945
Envelope.....	R. Snider.....	8,225-8,226	Mar. 23, 1875	7	466
Eraser, Rubber.....	C. Roberts.....	8,486	July 13, 1875	8	49
F.					
Fabric.....	E. C. Clark.....	8,636	Sept. 7, 1875	8	403
Fan.....	S. L. Barinds.....	8,578-8,580	Aug. 24, 1875	8	322
Fan.....	G. S. Farwell.....	8,305	May 4, 1875	7	742
Fan.....	B. Hecht.....	8,307	May 4, 1875	7	742
Fan.....	J. F. Langworthy.....	8,576	Aug. 24, 1875	8	322
Fan.....	N. Metz.....	8,364	June 1, 1875	7	926
Fan.....	E. W. Perry.....	8,310	May 4, 1875	7	742
Fan.....	C. Rowland.....	8,667-8,668	Sept. 28, 1875	8	520
Fan.....	H. B. Sommer.....	8,654	Sept. 14, 1875	8	439
Finger-ring, &c., Ornamental.....	A. R. Lender.....	8,577	Aug. 24, 1875	8	322
Fire log, Gas.....	T. N. Dixon.....	8,065	Feb. 16, 1875	7	261
Fire-place heater.....	P. Rollhaus, jr.....	8,567	Aug. 17, 1875	8	281
Flag.....	J. C. Deming.....	8,593	Aug. 31, 1875	8	364
Flag.....	W. A. Duff.....	8,873	Dec. 28, 1875	8	1076
Flower-stand.....	H. P. Roberts.....	8,783	Nov. 9, 1875	8	777
Fork and spoon handle.....	C. Osborne.....	8,069	Feb. 16, 1875	7	261
Fork and spoon handle.....	C. Osborne.....	8,166	Feb. 23, 1875	7	302
Fork and spoon handle.....	L. S. White.....	8,571	Aug. 17, 1875	8	281
Fork-handle.....	J. F. Fradley.....	8,369	June 1, 1875	7	926
Fountain.....	J. W. Fiske.....	8,186	Mar. 2, 1875	7	345
Fountain.....	W. Tweeddale.....	8,713	Oct. 11, 1875	8	600
Fulling-mill case, Side of.....	J. E. Hunter.....	7,982	Jan. 5, 1875	7	5
G.					
Game-board.....	C. G. Harger, jr.....	8,398	June 15, 1875	7	1014
Gasalier.....	C. Herter.....	8,605	Sept. 7, 1875	8	403
Gasalier.....	C. Herter.....	8,696-8,698	Oct. 5, 1875	8	561
Gasalier.....	C. Herter.....	8,748	Oct. 26, 1875	8	689
Gate.....	F. O. Hanson.....	8,853	Dec. 21, 1875	8	1034
Gate and panel.....	F. O. Hanson.....	8,852	Dec. 21, 1875	8	1034
Gauntlet.....	B. G. Shults.....	8,209	Mar. 16, 1875	7	427
Gauntlet-box.....	B. G. Shults.....	8,659	Sept. 21, 1875	8	475
Glass dish.....	J. S. and T. B. Atterbury.....	8,827	Dec. 7, 1875	8	945
Glass dish.....	G. W. Lowry.....	8,164-8,165	Feb. 23, 1875	7	302
Glass dish for table use.....	J. S. and T. B. Atterbury.....	8,450	July 6, 1875	8	3
Glass fruit-dish.....	G. E. Hatch.....	8,585	Aug. 31, 1875	8	364
Glass shade.....	T. B. Atterbury.....	8,866	Dec. 28, 1875	8	1076
Glass vessel.....	E. Finney.....	8,496	July 27, 1875	8	148
Glassware.....	H. Franz.....	8,764	Nov. 2, 1875	8	729

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Glassware.....	J. C. Gill.....	8,663	Sept. 28, 1875	8	520
Glassware.....	G. E. Hatch.....	8,286	Apr. 27, 1875	7	701
Glassware.....	W. Leighton, jr.....	8,387	June 15, 1875	7	1013
Glassware.....	J. B. Lyon.....	8,464	July 6, 1875	8	4
Glassware.....	F. S. Shirley.....	8,824	Dec. 7, 1875	8	945
Glassware-base.....	J. B. Lyon.....	8,465	July 6, 1875	8	4
Glove-box.....	M. D. Murray, Z. Gilbert, and L. Ostrom.....	8,051	Feb. 9, 1875	7	223
Goblet.....	J. E. Miller.....	8,291	Apr. 27, 1875	7	701
Grave-covering.....	I. G. Lunday and C. G. Anglin.....	8,040	Feb. 2, 1875	7	181
Gridiron.....	W. P. Warren.....	8,650	Sept. 14, 1875	8	439
H.					
Hat and fur box.....	H. F. Reinecke.....	8,311	May 4, 1875	7	742
Head-light, Locomotive.....	T. S. Ray and C. T. Ham.....	8,391	June 15, 1875	7	1013
Heel tread, Boot and shoe.....	F. Shaw.....	8,259	Apr. 6, 1875	7	564
Hinge, Butt.....	E. J. Steele.....	8,710	Oct. 11, 1875	8	600
Hinge, Coffin.....	J. W. Vaughn.....	8,809	Nov. 23, 1875	8	862
Hitching-post.....	L. Schaefer.....	8,279	Apr. 20, 1875	7	651
Hobby-horse.....	A. Shoeninger.....	8,743-8,744	Oct. 19, 1875	8	645
I.					
Inkstand.....	B. Brower.....	8,583	Aug. 31, 1875	8	364
Inkstand.....	B. Brower.....	8,868-8,869	Dec. 28, 1875	8	1076
Inkstand.....	E. Finney.....	8,830	Dec. 7, 1875	8	945
Inkstand.....	O. F. Fogelstrand.....	8,204	Mar. 9, 1875	7	387
Inkstand.....	G. E. Hatch.....	8,831	Dec. 7, 1875	8	945
Inkstand.....	C. M. Jenckes.....	8,716	Oct. 11, 1875	8	600
Inkstand.....	H. S. Kerr.....	8,833	Dec. 7, 1875	8	945
Inkstand.....	H. Lee.....	8,804	Nov. 23, 1875	8	862
Inkstand.....	S. J. Van Stavoren.....	8,755	Oct. 26, 1875	8	689
Inkstand-base.....	B. Brower.....	8,672	Sept. 28, 1875	8	521
Inkstand-base.....	J. V. Brower.....	8,870	Dec. 28, 1875	8	1076
Inkstand-base.....	J. H. Johnson.....	8,011	Jan. 19, 1875	7	93
Inkstand, Fountain.....	L. L. Tower.....	8,385	June 8, 1875	7	968
Inkstand-support.....	C. Kitschelt.....	8,359-8,363	June 1, 1875	7	926
Inkstand-support.....	C. Kitschelt.....	8,555-8,556	Aug. 3, 1875	8	194
K.					
Knob, Door.....	B. Mallory.....	8,772	Nov. 9, 1875	8	776
Knob-shank.....	A. E. Young.....	8,491	July 20, 1875	8	95
L.					
Lamp.....	C. Herter.....	8,701	Oct. 5, 1875	8	561
Lamp-bracket.....	F. R. Seidensticker.....	8,041	Feb. 2, 1875	7	181
Lamp-chimney.....	F. S. Shirley.....	8,848	Dec. 14, 1875	8	988
Lamp-pedestal.....	N. L. Bradley.....	8,328	May 18, 1875	7	837
Lamp-pedestal.....	N. L. Bradley.....	8,481	July 13, 1875	8	48
Lamp-post.....	W. Tweeddale.....	8,356	May 25, 1875	7	879
Lamp post, Street.....	W. Tweeddale.....	8,293-8,297	Apr. 27, 1875	7	701
Lamp-shade.....	C. F. A. Hinrichs.....	8,489	July 20, 1875	8	95
Lamp shade and chimney.....	T. B. Atterbury.....	8,673	Oct. 5, 1875	8	560
Lantern.....	C. Herter.....	8,706	Oct. 11, 1875	8	600
Lantern, Advertising.....	F. L. Pisch.....	8,449	June 29, 1875	7	1098
Lantern and post, Street.....	R. B. Hewitt.....	8,010	Jan. 19, 1875	7	93
Latch-handle.....	E. J. Steele.....	8,711	Oct. 11, 1875	8	600
Letter or toy building-block.....	S. Lyman.....	8,466	July 6, 1875	8	4
Lounge.....	J. B. Rohrer.....	8,054-8,055	Feb. 9, 1875	7	223
Lounge-back.....	G. Hartzell.....	8,352-8,354	May 25, 1875	7	879
M.					
Match-safe.....	O. F. Fogelstrand.....	8,195-8,196	Mar. 9, 1875	7	387
Match-safe.....	T. B. Harkins.....	8,604	Sept. 7, 1875	8	403
Medal.....	H. G. Brace.....	8,000	Jan. 12, 1875	7	48
Medal.....	W. B. Cunningham and P. Hill.....	8,647	Sept. 14, 1875	8	439
Medal.....	J. C. Deming.....	8,581	Aug. 24, 1875	8	322
Medal.....	T. R. Hartell.....	8,285	Apr. 27, 1875	7	701
Medal.....	I. Y. Knight.....	8,377	June 8, 1875	7	968
Medal.....	J. W. Lingg.....	8,388	June 15, 1875	7	1013
Medal.....	J. H. Schreiner.....	8,324	May 11, 1875	7	783
Medal.....	J. H. Schreiner.....	8,365	June 1, 1875	7	926
Medal.....	I. Townsend.....	8,366	June 1, 1875	7	926
Medal, Charm.....	C. H. Hershey.....	8,331	May 18, 1875	7	837
Monument.....	A. Lingemann.....	8,229-8,230	Mar. 30, 1875	7	516
Monument.....	W. T. Price.....	8,717	Oct. 11, 1875	8	600
Mop and brush holders, Jaw of.....	C. B. Clark.....	8,661	Sept. 21, 1875	8	475
N.					
Neck-tie.....	R. R. Parker.....	8,355	May 25, 1875	7	879
Necklace, Bead for.....	S. Cottle.....	8,871	Dec. 28, 1875	8	1076
Newell-light.....	C. Herter.....	8,700	Oct. 5, 1875	8	561
Newell-light.....	C. Herter.....	8,707	Oct. 11, 1875	8	600
Newspaper-rack.....	H. Z. Baker.....	8,373	June 8, 1875	7	968
Nubia.....	J. Phipps.....	8,455-8,456	July 6, 1875	8	4
O.					
Oil-cloth.....	J. Barrett.....	8,273	Apr. 20, 1875	7	651
Oil-cloth.....	J. Hutchison.....	8,399-8,403	June 15, 1875	7	1014

Alphabetical list of designs—Continued.

Invention or discovery.	Name of patentee.	No.	Date	Official Gazette.	
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Oil-cloth	H. Kagy	8,246-8,247	Mar. 30, 1875	7	516
Oil-cloth	C. T. and V. E. Meyer	8,021-8,024	Jan. 26, 1875	7	133
Oil-cloth	C. T. and V. E. Meyer	8,050	Feb. 9, 1875	7	223
Oil-cloth	C. T. and V. E. Meyer	8,188-8,190	Mar. 2, 1875	7	345
Oil-cloth	C. T. and V. E. Meyer	8,270-8,271	Apr. 13, 1875	7	610
Oil-cloth	C. T. and V. E. Meyer	8,422-8,425	June 22, 1875	7	1057
Oil-cloth	C. T. and V. E. Meyer	8,529-8,534	July 27, 1875	8	148
Oil-cloth	C. T. and V. E. Meyer	8,773-8,775	Nov. 9, 1875	8	776
Oil-cloth	C. T. and V. E. Meyer	8,856-8,859	Dec. 21, 1875	8	1034
Oil-cloth, Floor	J. Barrett	8,674	Oct. 5, 1875	8	560
Oil-cloth, Floor	C. T. and V. E. Meyer	8,805-8,807	Nov. 23, 1875	8	862
Oil-cloth, Floor	F. H. Randall	8,689	Oct. 5, 1875	8	561
Organ-case	J. R. Lomas	8,855	Dec. 21, 1875	8	1034
Organ case, Reed	J. R. Lomas	8,002	Jan. 12, 1876	7	48
Ornamental star	W. Martin	8,343	May 25, 1875	7	879
Overshoe	G. Watkinson	8,810	Nov. 23, 1875	8	862
P.					
Paper box	I. Birgé	8,845	Dec. 14, 1875	8	988
Paper-weight	O. F. Fogelstrand	8,205	Mar. 9, 1875	7	387
Paper-weight	H. Lee	8,482	July 13, 1875	8	49
Paper-weight	C. Rowland	8,808	Nov. 23, 1875	8	862
Paper, Writing	H. C. Bainbridge	8,200	Mar. 9, 1875	7	387
Paper, Writing	H. D. Cone	8,070-8,071	Feb. 23, 1875	7	302
Paper, Writing	H. D. Cone	8,452	July 6, 1875	8	4
Piano-forte leg	C. E. Hoffmeister	8,648	Sept. 14, 1875	8	491
Pianos, Metal frame in	C. F. T. Steinway	8,782	Nov. 9, 1875	8	777
Pickle and preserve jar	C. A. and E. Du Vivier	8,284	Apr. 27, 1875	7	700
Picture-frame	E. Beck and S. Bird	8,410	June 22, 1875	7	1056
Picture-frame	A. B. Dimmet	8,574	Aug. 24, 1875	8	322
Picture-frame	R. Minshull	8,877	Dec. 28, 1875	8	1076
Picture-frame corner-piece	C. P. Poinier	8,834	Dec. 7, 1875	8	946
Picture-frame molding	H. S. Searle	8,303	Apr. 27, 1875	7	701
Picture-mount	R. Trautmann	8,280	Apr. 20, 1875	7	651
Pipe	C. D. Grimm	8,656	Sept. 21, 1875	8	475
Pipe	A. J. D. Henszey	8,269	Apr. 13, 1875	7	610
Pitcher	T. B. Atterbury	8,232	Mar. 30, 1875	7	516
Pitcher	H. Vasseur	8,282	Apr. 20, 1875	7	651
Plated ware, Band for	R. Christesen	8,596	Sept. 7, 1875	8	403
Pocket-book frame	J. C. Hacker	8,049	Feb. 9, 1875	7	223
Pottery-ware dish	T. H. Copeland	8,442	June 29, 1875	7	1098
Pottery-ware dish	J. Coxon	8,276	Apr. 20, 1875	7	651
Printing or weaving silk or other fabrics	S. Huber	8,876	Dec. 28, 1875	8	1076
Programme, Dancing	P. Hake	8,582	Aug. 24, 1875	8	323
Pulley-sash	G. A. Blake	8,771	Nov. 9, 1875	8	776
Pump curb, Chain	H. L. Fry	8,396-8,397	June 15, 1875	7	1014
Pump, Steam and vacuum	D. A. Burr	8,495	July 27, 1875	8	148
R.					
Radiator pipe, Steam	G. W. Walker	8,792	Nov. 9, 1875	8	777
Range	N. S. Vedder	8,850	Dec. 14, 1875	8	988
Range	W. S. Whitman	8,568	Aug. 17, 1875	8	281
Range	G. G. Wolfe and F. Ritchie	8,767	Nov. 2, 1875	8	729
Range	H. A. Wood	8,394	June 15, 1875	7	1014
Range, Cooking	L. W. Harwood	8,009	Jan. 19, 1875	7	93
Range, Cooking	N. S. Vedder and T. S. Heister	7,996	Jan. 12, 1875	7	47
Range, Cooking	N. S. Vedder and T. S. Heister	8,838	Dec. 14, 1875	8	987
Range, Cooking	N. S. Vedder and F. Ritchie	8,025	Jan. 26, 1875	7	133
Range, Cooking	N. S. Vedder and F. Ritchie	8,367	June 1, 1875	7	926
Range, Cooking	G. A. Wells and E. J. Cridge	8,863	Dec. 21, 1875	8	1034
Range-plate	N. S. Vedder and T. S. Heister	8,393	June 15, 1875	7	1014
Reflector	C. M. Murch	8,262	Apr. 13, 1875	7	610
Rocking-chair	G. M. Harwood and R. Wood	8,163	Feb. 23, 1875	7	302
S.					
Safe, Provision	F. Northrup	8,704	Oct. 5, 1875	8	561
Salt-cellar	J. S. and T. B. Atterbury	8,220	Mar. 23, 1875	7	466
Satchel and bag handle tip	G. O. Monroe	8,788	Nov. 9, 1875	8	777
Satchel-handle tip	G. O. Monroe	8,776	Nov. 9, 1875	8	776
Saw frame, Bracket	H. L. Pratt	8,381	June 8, 1875	7	968
Scarf-ring	L. S. Beals	8,409	June 22, 1875	7	1056
Screw, Coffin	N. Hayden	8,277	Apr. 20, 1875	7	651
Screw, Coffin	C. B. Rogers	8,690	Oct. 5, 1875	8	561
Screw head, Coffin	R. H. Burr	8,037-8,038	Feb. 2, 1875	7	181
Screw head, Thumb	J. S. Ray	8,036	Feb. 2, 1875	7	181
Settee, Lawn	J. W. Fiske	8,801	Nov. 23, 1875	8	862
Shawl	H. Berg	8,643	Sept. 7, 1875	8	403
Shelf-bracket	E. J. Steele	8,762	Oct. 26, 1875	8	689
Shirt-bosom	C. H. Horsfall	8,715	Oct. 11, 1875	8	600
Shirt-front	V. H. Rothschild	8,835	Dec. 7, 1875	8	946
Shirt-fronts, &c., Border for	C. S. Vetter	8,228	Mar. 23, 1875	7	466
Shoe-upper front	C. Merritt	8,761	Oct. 26, 1875	8	689
Show-card for exhibiting vest-buttons	J. Field	8,180	Mar. 2, 1875	7	345
Show-case	W. H. Grove	8,787	Nov. 9, 1875	8	777
Show-case	W. H. Grove	8,802	Nov. 23, 1875	8	862
Show-case	J. Lehnbeuter and C. Claes	8,813-8,815	Nov. 30, 1875	8	909
Show-case	L. Wiegand and J. Lehnbeuter	8,183-8,185	Mar. 2, 1875	7	345
Show-case and stand	J. Lehnbeuter	8,287-8,289	Apr. 27, 1875	7	701
Sign, Illuminating	F. McLewee	8,669	Sept. 28, 1875	8	521
Silk fabric	J. Coignet	8,358	June 1, 1875	7	926
Silk fabric	J. Coignet	8,584	Aug. 31, 1875	8	364

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Silver-ware, Ornamental border for	C. Osborne	8,414	June 22, 1875	7	1056
Skirt, Knitted	S. Wallis	8,745	Oct. 19, 1875	8	645
Smoking-pipe	I. Demuth	7,987	Jan. 5, 1875	7	5
Soda-water apparatus, Casing of	F. H. Shepherd and E. Schwab	8,018	Jan. 19, 1875	7	93
Soda-water apparatus, Casing of	F. H. Shepherd and E. Schwab	8,191	Mar. 2, 1875	7	345
Soda-water apparatus, Casing of	F. H. Shepherd	8,778-8,779	Nov. 9, 1875	8	776
Soda-water apparatus, Casing of	F. H. Shepherd	8,796-8,797	Nov. 16, 1875	8	819
Soda-water apparatus, Casing of	F. H. Shepherd	8,818-8,819	Nov. 30, 1875	8	909
Soda-water apparatus, Casing of	F. H. Shepherd	8,881	Dec. 23, 1875	8	1076
Spice-can	Z. R. Traver	8,063	Feb. 16, 1875	7	261
Spoon-handle	J. F. Fradley	8,370	June 1, 1875	7	926
Spoon or fork	C. Witteck	8,283	Apr. 20, 1875	7	651
Stair-cover	W. B. Gould	8,306	May 4, 1875	7	742
Stair-rod	W. T. Mersereau	8,217	Mar. 23, 1875	7	466
Statuary	J. Rogers	8,181-8,182	Mar. 2, 1875	7	345
Statuary	J. Rogers	8,720	Oct. 19, 1875	8	645
Statuary, Group of	H. W. Hirschfeld	8,332	May 28, 1875	7	837
Statuary, Group of	J. Rogers	8,879	Dec. 28, 1875	8	1076
Statue	D. Barselotti and V. Alluisi	8,211	Mar. 23, 1875	7	466
Stocking-leg	M. Landenberger, jr.	8,822	Dec. 7, 1875	8	945
Stool-pedestal	A. Merriam and C. L. Little	8,231	Mar. 30, 1875	7	516
Stool, Piano	G. W. Archer	8,440	June 29, 1875	7	1098
Stove	B. M. Anthony	8,272	Apr. 20, 1875	7	651
Stove	J. J. Bonnet	8,793	Nov. 16, 1875	8	819
Stove	W. Burrows	8,441	June 29, 1875	7	1098
Stove	W. Tweeddale	8,660	Sept. 21, 1875	8	475
Stove	J. Van Wormer and M. McGarvey	8,458	July 6, 1875	8	4
Stove	N. S. Vedder	8,337	May 18, 1875	7	837
Stove	N. S. Vedder	8,459	July 6, 1875	8	4
Stove	A. Wemyss	8,460	July 6, 1875	8	4
Stove, Base-burning	N. S. Vedder and T. S. Heister	8,837	Dec. 14, 1875	8	987
Stove, Base-burning	N. S. Vedder, T. S. Heister, and F. Ritchie	8,851	Dec. 14, 1875	8	988
Stove, Base-burning	N. S. Vedder, F. Ritchie, and T. S. Heister	8,005-8,006	Jan. 12, 1875	7	48
Stove-cover lifter	H. C. Brown	8,484	July 13, 1875	8	49
Stove-cover lifters, Handle for	J. M. Read	8,790	Nov. 9, 1875	8	777
Stove, Cooking	J. Brownback, T. J. March, J. Rogers, and M. Towers, jr.	8,718	Oct. 19, 1875	8	645
Stove, Cooking	R. A. Culter and D. C. Proctor	8,768	Nov. 2, 1875	8	729
Stove, Cooking	L. W. Harwood and John C. Smith	8,020	Jan. 26, 1875	7	133
Stove, Cooking	W. J. Keep	8,685	Oct. 5, 1875	8	560
Stove, Cooking	N. S. Vedder	8,836	Dec. 14, 1875	8	987
Stove, Cooking	N. S. Vedder and T. S. Heister	7,999	Jan. 12, 1875	7	48
Stove, Cooking	N. S. Vedder and T. S. Heister	8,035	Jan. 26, 1875	7	133
Stove, Cooking	N. S. Vedder and T. S. Heister	8,842	Dec. 14, 1875	8	988
Stove, Cooking	N. S. Vedder and F. Ritchie	8,844	Dec. 14, 1875	8	988
Stove, Cooking	N. S. Vedder, F. Ritchie, and T. S. Heister	8,004	Jan. 12, 1875	7	48
Stove, Cooking	N. S. Vedder, F. Ritchie, and T. S. Heister	8,026	Jan. 26, 1875	7	133
Stove, Cooking	G. A. Wells	8,044	Feb. 2, 1875	7	181
Stove, Cooking	G. A. Wells, N. S. Vedder, and T. S. Heister	8,864	Dec. 21, 1875	8	1034
Stove, Cooking	G. G. Wolfe, N. S. Vedder, and F. Ritchie	8,769	Nov. 2, 1875	8	729
Stove-door knob	J. F. Quimby	8,558	Aug. 3, 1875	8	194
Stove-doors, Ornamentation of	J. Van Wormer and M. McGarvey	8,426	June 22, 1875	7	1057
Stove, Franklin	N. S. Vedder and T. S. Heister	7,997	Jan. 12, 1875	7	47
Stove, Heating	J. V. B. Carter	8,374	June 8, 1875	7	968
Stove, Heating	W. C. Davis	8,563	Aug. 17, 1875	8	281
Stove, Heating	R. Scorer and R. Ham	8,483	July 13, 1875	8	49
Stove, Heating	G. Smith and H. Brown	8,336	May 18, 1875	7	837
Stove, Heating	N. S. Vedder and T. S. Heister	7,998	Jan. 12, 1875	7	48
Stove, Heating	N. S. Vedder and T. S. Heister	8,841	Dec. 14, 1875	8	988
Stove, Heating	N. S. Vedder, T. S. Heister, and F. Ritchie	8,840	Dec. 14, 1875	8	988
Stove, Illuminating base-burning	N. S. Vedder and T. S. Heister	8,839	Dec. 14, 1875	8	988
Stove, Parlor	N. S. Vedder and T. S. Heister	8,843	Dec. 14, 1875	8	988
Stove, Parlor	N. S. Vedder and F. Ritchie	8,861	Dec. 21, 1875	8	1034
Stove, Parlor	G. A. Wells and E. J. Cridge	8,862	Dec. 21, 1875	8	1034
Stove, Parlor	G. G. Wolfe, N. S. Vedder, and F. Ritchie	8,766	Nov. 2, 1875	8	729
Stove, Parlor cooking	N. S. Vedder and F. Ritchie	8,012	Jan. 19, 1875	7	93
Stove-plate	G. Smith and H. Brown	8,224	Mar. 23, 1875	7	466
Stove, Reservoir cooking	J. Dwyer	8,375	June 8, 1875	7	968
Stove, Reservoir cooking	J. Dwyer	8,462	July 6, 1875	8	4
Stud, Shirt	L. S. Beals	8,756-8,758	Oct. 26, 1875	8	689
T.					
Table-fork shank	J. W. Gardner	8,322	May 11, 1875	7	783
Table-knife handle	L. J. March	8,389	June 15, 1875	7	1013
Tablet, Writing	J. M. Quackenbos, jr.	8,382	June 8, 1875	7	968
Tea and coffee pot	J. D. Rice	8,372	June 1, 1875	7	926
Tea-caddy	W. T. Sherer	8,251	Mar. 30, 1875	7	516
Telegraph key	C. W. Lewis	8,342	May 25, 1875	7	879
Thermometer	C. Kitschelt	8,421	June 22, 1875	7	1057
Tobacco-bag	W. J. Cussen	8,816	Nov. 30, 1875	8	909
Tobacco-pipe	L. Nax and F. A. Kühn	8,777	Nov. 9, 1875	8	776
Tobacco-pipe stem	L. G. Hussmann	8,493	July 20, 1875	8	95
Towel-rack	C. Ten Eyck	8,254	Mar. 30, 1875	7	516
Toy	J. Stidham	8,292	Apr. 27, 1875	7	701
Toy-balloon	H. S. Kerr	8,847	Dec. 14, 1875	8	988
Toy-bank	J. Hall	8,498	July 27, 1875	8	148

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Toy-chariot	E. R. Ives	8,832	Dec. 7, 1875	8	945
Toy money-bank	C. W. Croteau	8,655	Sept. 21, 1875	8	475
Toy money-box	T. A. Bailey	8,957	Apr. 6, 1875	7	564
Toy money-box	J. G. Baker	8,820	Dec. 7, 1875	8	945
Toy money-box	C. M. Ferguson and W. F. Gilbert	8,321	May 11, 1875	7	782
Toy money-box	J. Murray and J. A. C. J. Smith	8,746	Oct. 19, 1875	8	645
Trimming	C. Lindenthal	8,823	Dec. 7, 1875	8	945
Trimming	G. H. Prindle	8,646	Sept. 7, 1875	8	403
Trimming, Dress	S. Bernstein	8,301	Apr. 27, 1875	7	701
Trimming, Dress	J. McLaughlin	8,686	Oct. 5, 1875	8	560
Trumpet, Fireman's	F. J. Miller	8,334	May 18, 1875	7	837
Trunks, Hat and bonnet holder for	J. Hall	8,803	Nov. 23, 1875	8	862
Trunks, Metal sheet for covering	A. V. Romadka	8,784	Nov. 9, 1875	8	777
Type, Font of printing	D. W. Bruce	7,993	Jan. 12, 1875	7	47
Type, Font of printing	J. M. Conner	8,313	May 4, 1875	7	742
Type, Font of printing	J. M. Conner	8,317	May 11, 1875	7	782
Type, Font of printing	J. Herriet	7,994	Jan. 12, 1875	7	47
Type, Font of printing	J. Herriet	7,995	Jan. 12, 1875	7	47
Type, Font of printing	C. E. Heyer	8,240-8,244	Mar. 30, 1875	7	616
Type, Font of printing	C. E. Heyer	8,376	June 8, 1875	7	968
Type, Font of printing	H. Ihlenburg	8,308	May 4, 1875	7	742
Type, Font of printing	H. Ihlenburg	8,314	May 4, 1875	7	742
Type, Font of printing	P. A. Jordan	8,245	Mar. 30, 1875	7	516
Type, Font of printing	P. A. Jordan	8,420	June 22, 1875	7	1057
Type, Font of printing	A. Little	8,379	June 8, 1875	7	968
Type, Printing	J. M. Conner	8,419	June 22, 1875	7	1057
Type, Printing	J. M. Conner	8,714	Oct. 11, 1875	8	660
Type, Printing	J. Herriet	8,454	July 6, 1875	8	4
Type, Printing	C. E. Heyer	8,446-8,447	June 29, 1875	7	1098
Type, Printing	H. Ihlenburg	8,644	Sept. 7, 1875	8	403
Type, Printing	W. W. Jackson	8,463	July 6, 1875	8	4
Type, Printing	A. Little	8,485	July 13, 1875	8	49
Type, Printing	J. K. Rogers	8,559	Aug. 3, 1875	8	194
V.					
Valise-lock	G. Bernheim	8,304	May 4, 1875	7	742
Valves, Hand-wheel of	D. McLaughlin	8,380	June 8, 1875	7	968
Vase	J. W. Fiske	6,368	June 1, 1875	7	926
Vase	W. L. Libbey	8,215	Mar. 23, 1875	7	466
Vase	C. F. Pike	8,415	June 22, 1875	7	1057
Vase	A. Schlank	8,383	June 8, 1875	7	968
Vase	W. Tweeddale	8,281	Apr. 20, 1875	7	651
Vase-handle	J. W. Fiske	8,575	Aug. 24, 1875	8	322
Vase-pedestal	W. Tweeddale	8,325	May 11, 1875	7	793
Vase-pedestals, Panel for	M. D. Jones	8,341	May 25, 1875	7	879
Vases, Base-panel for	M. D. Jones	8,339	May 25, 1875	7	879
Vases, Border for	M. D. Jones	8,340	May 25, 1875	7	879
Wainscoting	J. Milne	8,323	May 11, 1875	7	783
Wall-bracket	H. H. Peacock	8,223	Mar. 23, 1875	7	466
Wall-pocket	J. C. Lamm	8,702	Oct. 5, 1875	8	561
Watch-key	H. W. Bullock	8,799	Nov. 23, 1875	8	862
Window-bracket	N. L. Bradley	8,057	Feb. 16, 1875	7	261
Work-stand	M. S. Dunn	8,161	Feb. 23, 1875	7	302
Worsted or woolen fabric, Fancy	A. Jewell	8,658	Sept. 21, 1875	8	475

ALPHABETICAL LIST OF REISSUES.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
A.							
Annunciator and fire-alarm, Hotel.....	E. A. Hill.....	6,575	Aug. 3, 1875	254	76, 77	8	235
Annunciator and fire-alarm, Hotel.....	E. A. Hill.....	6,576	Aug. 3, 1875	256	77	8	235
Annunciator and fire-alarm, Hotel.....	E. A. Hill.....	6,577	Aug. 3, 1875	258	77, 78	8	235
Annunciator, Electric.....	G. W. Shawk.....	6,581	Aug. 3, 1875	267	79	8	236
Annunciator, Electro-magnetic.....	E. Gray.....	6,825	Dec. 28, 1875	987	319	8	1106
Annunciator, Self-closing.....	E. Axthelm.....	6,399	Apr. 27, 1875	1094	{ 346 347 }	7	737
Apron supporter and page.....	W. H. Chipley.....	6,310	Mar. 2, 1875	223	77	7	381
Atomizer.....	C. P. Janes.....	6,345	Mar. 23, 1875	1011	330	7	512
Axle box, Car.....	A. A. Freeman.....	6,449	May 25, 1875	1060	335	7	917
Axle box, Railway.....	J. N. Smith.....	6,487	June 15, 1875	749	245	7	1052
Axle-turning machine.....	W. H. Heffley.....	6,615	Aug. 24, 1875	658	299	8	360
B.							
Bale-tie.....	J. S. Carson.....	6,468	June 1, 1875	212	74	7	959
Baling-press.....	L. Dodge.....	6,242	Jan. 19, 1875	650	213	7	127
Barrel.....	A. Wyckoff.....	6,814	Dec. 21, 1875	788	260	8	1070
Barrel-machine.....	A. Wyckoff.....	6,813	Dec. 21, 1875	787	260	8	1070
Barrels, Manufacture of.....	D. Phillips and W. Reid.....	6,699	Oct. 11, 1875	492	159	8	642
Bearings, Anti-friction compound for.....	L. W. Lathrop and T. A. Weber.....	6,748	Nov. 16, 1875	830	.....	8	858
Bed-bottom.....	P. C. Hard.....	6,436	May 18, 1875	810	256	7	876
Bed-bottom.....	S. Pearson.....	6,204	Jan. 5, 1875	186	64	7	35
Bed-bottom.....	E. W. Tucker.....	6,338	Mar. 16, 1875	692	227	7	462
Bed-bottom, Spring.....	J. L. Branson and A. Juergens.....	6,418	May 4, 1875	250	80, 81	7	780
Bedstead-fastening.....	W. H. Elliot.....	6,447	May 25, 1875	1058	334	7	916
Bedstead, Invalid.....	J. Crosby.....	6,790	Dec. 7, 1875	258	86	8	984
Bee-hive.....	E. Gerry.....	6,499	June 22, 1875	1014	{ 327 328 }	7	1093
Bell, Door.....	H. A. Dierkes.....	6,548	July 20, 1875	767	235	8	139
Belt-shifter.....	W. H. H. Sisum.....	6,496	June 22, 1875	1011	327	7	1093
Billiard-table.....	H. W. Collender.....	6,469	June 1, 1875	212	75	7	959
Bird-cages, Metallic mat for.....	O. Lindemann.....	6,231	Jan. 12, 1875	402	135	7	80
Bit-brace.....	C. H. Stockbridge.....	6,350	Mar. 23, 1875	1017	331	7	512
Bit-stock.....	C. B. Rose.....	6,212	Jan. 5, 1875	196	66	7	36
Blackboard-rubber.....	B. Y. Conklin.....	6,797	Dec. 14, 1875	537	177	8	1029
Blower, Rotary pressure.....	W. Pruett.....	6,481	June 8, 1875	498	164	7	1008
Boiler-feeder, Automatic.....	S. Cook.....	6,768	Nov. 30, 1875	1316	416	8	941
Boiler-tube cleaner.....	C. Schmandt.....	6,482	June 8, 1875	499	164	7	1009
Bolt-heading machine.....	T. Hull and N. Thomas.....	6,747	Nov. 16, 1875	828	260	8	858
Bolts, Manufacture of.....	W. J. Clarke.....	6,291	Feb. 16, 1875	729	242	7	237
Boot and shoe.....	T. Powell.....	6,522	June 29, 1875	1252	402	7	1134
Boot and shoe.....	W. F. Prusha and E. L. Wales.....	6,421	May 4, 1875	253	82	7	780
Boot and shoe counter stiffener.....	J. L. Hatch.....	6,534	July 6, 1875	257	76	8	43
Boot and shoe leather crimping machine.....	S. W. Jamison.....	6,525	June 29, 1875	1254	403*	7	1135
Boot and shoe stiffenings, Apparatus for crimping.....	J. W. Hatch.....	6,319	Mar. 9, 1875	447	148	7	421
Boot and shoe tip.....	H. W. Merrill and J. W. Hoitt.....	6,762	Nov. 23, 1875	1100	345	8	904
Boot, Gaiter.....	C. Hersome.....	6,328	Mar. 9, 1875	459	151	7	422
Boot, &c., seam.....	S. A. Brackett and W. W. Whitcomb.....	6,277	Feb. 9, 1875	470	157	7	258
Boots and shoes, Machine for making wooden shanks for.....	W. N. Sprague.....	6,828	Dec. 28, 1875	992	320	8	1106
Boots and shoes, Machine for screwing uppers onto soles of.....	C. Tyson.....	6,483	June 8, 1875	500	{ 164 165 }	7	1009
Boots and shoes, Manufacture of.....	J. L. Joyce.....	6,480	June 8, 1875	497	164	7	1008
Bottle, Nursing.....	M. S. Burr.....	6,809	Dec. 21, 1875	783	259	8	1070
Brick-kiln.....	S. D. Rader.....	6,380	Apr. 13, 1875	499	164	7	648
Bridge, Iron.....	J. B. Eads.....	6,444	May 25, 1875	1054	333	7	916
Bridge, Iron.....	J. B. Eads.....	6,445	May 25, 1875	1056	334	7	916
Bridge, Iron.....	J. B. Eads.....	6,446	May 25, 1875	1058	334	7	916
Bridle-bit.....	B. L. Rowley.....	6,656	Sept. 21, 1875	667	212	8	516
Broom-machine.....	H. Anderson and J. S. Houghton.....	6,275	Feb. 9, 1875	468	157	7	258
Brush-holder.....	C. B. Clark.....	6,731	Nov. 9, 1875	568	177	8	815
Brush, Sponge.....	H. S. Kerr.....	6,692	Oct. 11, 1875	485	157	8	641
Buckle and ring, Rubber-coated.....	R. C. Dunham.....	6,219	Feb. 9, 1875	472	158	7	258
Buckle, Suspender.....	A. Shenfield.....	6,474	June 1, 1875	219	76	7	960
Burner, Argand gas.....	C. D. Gervin.....	6,769	Nov. 30, 1875	1319	416	8	941
Burner, Argand gas.....	E. P. Gleason.....	6,491	June 22, 1875	1006	325	7	1092
Burner, Argand gas.....	E. R. Walker.....	6,453	May 25, 1875	1063	336	7	917
Burner, Lamp.....	A. Taplin.....	6,650	Sept. 21, 1875	662	210	8	516
Burner, Refuse.....	W. Glue.....	6,479	June 8, 1875	496	163	7	1008
Burners, Lens attachment for gas.....	M. C. Meigs.....	6,373	Apr. 13, 1875	492	{ 162 163 }	7	647
Buttoner, Shoe and glove.....	G. Stackpole.....	6,523	June 29, 1875	1253	403	7	1134
C.							
Candle-holder.....	C. Kirchhof.....	6,805	Dec. 14, 1875	546	179	8	1030
Canes, &c., Bone handle for.....	J. Harvey.....	6,513	June 29, 1875	1244	400	7	1133
Caoutchouc, Artificial.....	A. G. Day.....	6,707	Oct. 19, 1875	734	.....	8	684
Caoutchouc, Process for forming artificial.....	A. G. Day.....	6,708	Oct. 19, 1875	735		8	684
Car-brake.....	A. F. Gue.....	6,411	May 4, 1875	245	79	7	779

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Alphabetical list of reissues—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Car-brake	S. G. Howe	6,724	Nov. 2, 1875	278	90	8	772
Car-coupling	J. Outland and R. P. Thomas	6,539	July 13, 1875	510	156	8	87
Car-coupling	J. Singer	6,752	Nov. 16, 1875	833	261	8	858
Car-coupling	W. F. Starr	6,440	May 18, 1875	814	257	7	876
Car heater, Railway	E. H. Ashcroft	6,652	Sept. 21, 1875	664	210	8	516
Car-roof	A. P. Winslow	6,401	Apr. 27, 1875	1098	347	7	738
Car, Safety passenger	J. T. Worley	6,375	Apr. 13, 1875	494	163	7	647
Car, Sleeping	B. Field and G. M. Pullman	6,648	Sept. 21, 1875	658	209	8	515
Car, Sleeping	E. Wheeler	6,651	Sept. 21, 1875	662	210	8	516
Car, Spring	J. C. Pickles	6,321	Mar. 9, 1875	450	149	7	421
Car, Street	J. Stephenson	6,427	May 11, 1875	545	174	7	826
Car, Street	J. Stephenson	6,428	May 11, 1875	546	174	7	826
Car, Street	J. Stephenson	6,429	May 11, 1875	547	175	7	826
Car, Street	J. Stephenson	6,696	Oct. 11, 1875	488	158	8	641
Car, Street	J. Stephenson	6,697	Oct. 11, 1875	490	159	8	642
Carbonic acid, Manufacture of liquid	H. Beins	6,220	Jan. 12, 1875	391		7	79
Carbureter, Automatic feed and absorption	W. H. Covel	6,754	Nov. 23, 1875	1091	343	8	902
Carbureting apparatus	E. J. Fraser	6,376	Apr. 13, 1875	495	163	7	647
Carbureting apparatus, Air	D. Bickford	6,431	May 18, 1875	803	254	7	875
Carding-engine for making bats for felted fabrics	H. J. and W. D. Davies	6,432	May 18, 1875	804	254	7	875
Carpet-lining	J. M. Perkins	6,795	Dec. 14, 1875	536		8	1028
Carriage-axle	A. E. Smith	6,694	Oct. 11, 1875	486	158	8	641
Carriage-axle	A. E. Smith	6,695	Oct. 11, 1875	487	158	8	641
Carriage, Child's	R. G. Elder	6,657	Sept. 28, 1875	887	283	8	555
Carriage, Child's	W. Stewart	6,553	July 20, 1875	774	237	8	140
Carriage-step	G. A. Keene	6,229	Jan. 12, 1875	400	134	7	80
Cartridge-cases, Machine for necking	B. Payne	6,520	June 29, 1875	1250	402	7	1134
Cartridge-cases, Necking	B. Payne	6,521	June 29, 1875	1252	402	7	1134
Carving and ornamenting wood-work, Machine for	M. T. Boulton	6,572	Aug. 3, 1875	251	76	8	234
Casket-handle	C. Strong	6,497	June 22, 1875	1013	327	7	1093
Caster, Sewing-machine	L. O. Allen	6,269	Feb. 2, 1875	241	79	7	218
Casting mold-boards	J. Oliver	6,642	Sept. 14, 1875	410	131	8	472
Cement tank, Asphaltic	T. New	6,683	Oct. 5, 1875	226	74	8	596
Cement tank, Asphaltic	T. New	6,684	Oct. 5, 1875	227	74	8	596
Chain, Drive	W. D. Ewart	6,387	Apr. 20, 1875	811	263	7	694
Chair-back-molding machine	J. Lemman	6,312	Mar. 2, 1875	226	77	7	381
Chill for casting mold-boards	J. Oliver	6,647	Sept. 14, 1875	415	132	8	472
Cider-mill	E. Curtiss	6,799	Dec. 14, 1875	539	177	8	1029
Cider-mill	S. Males	6,504	June 22, 1875	1020	329	7	1094
Cigar-box	C. A. Siecke	6,458	May 25, 1875	1069	337	7	918
Cigar-mold	J. Charter	6,758	Nov. 23, 1875	1095	344	8	903
Cigar-mold	F. C. Miller	6,662	Sept. 28, 1875	894	285	8	555
Cigar-mold	J. Prentice	6,210	Jan. 5, 1875	193	66	7	36
Clock-dial	S. E. Root	6,580	Aug. 3, 1875	266	79	8	236
Cloth-cutting machine	A. Warth	6,238	Jan. 19, 1875	639	212	7	147
Clutch, Machine	A. B. Bean	6,215	Jan. 12, 1875	385	131	7	78
Clutch, Machine	A. B. Bean	6,791	Dec. 14, 1875	530	175	8	1028
Coal screen and chute	M. R. Roberts	6,211	Jan. 5, 1875	194	66	7	36
Coating metals with metal	I. Adams, jr.	6,313	Mar. 2, 1875	228		7	381
Coating metals with metal	I. Adams, jr.	6,402	Apr. 27, 1875	1100		7	738
Cock for locomotives, &c., Cylinder	C. H. Hopkins	6,464	June 1, 1875	205	73	7	958
Cock, Globe	J. Powell	6,527	July 6, 1875	248	75	8	42
Compass, Mariner's	E. S. Ritchie	6,607	Aug. 24, 1875	946	{ 295 296 }	8	358
Compass, Mariner's	E. S. Ritchie	6,827	Dec. 28, 1875	989	{ 319 320 }	8	1106
Connecting-rod	J. F. Haskins	6,255	Jan. 26, 1875	880	286	7	167
Copying-press	W. U. Fairbairn	6,365	Apr. 6, 1875	233	78	7	602
Corset	L. H. Foy	6,448	May 25, 1875	1059	{ 334 335 }	7	917
Cotton-jack	M. J. Walsh	6,559	July 27, 1875	1044	321	8	188
Cotton-presses, Hydraulic attachment for	S. Hughes	6,667	Sept. 22, 1875	898	{ 286 287 }	8	556
Covered jar	W. C. King	6,222	Jan. 12, 1875	393	132	7	79
Crimping-machine	S. W. Jamison	6,526	June 29, 1875	1258	403	7	1135
Cultivator	R. M. Melton	6,379	Apr. 13, 1875	498	164	7	648
Curry-comb	W. E. Lawrence	6,605	Aug. 24, 1875	945	295	8	358
Curry-comb	C. W. Salladee	6,788	Dec. 7, 1875	256	86	8	954
Cutter-head	C. P. Randolph	6,717	Oct. 26, 1875	985	319	8	726
D.							
Dental engine	W. W. Evans	6,677	Oct. 5, 1875	221	72	8	595
Dental hammer	J. C. Dean	6,817	Dec. 21, 1875	790	261	8	1071
Dental plate	D. M. Lamb	6,633	Sept. 7, 1875	201	63	8	434
Dental plate	D. M. Lamb	6,634	Sept. 7, 1875	202	63	8	434
Diaper-pin	I. W. Stewart	6,698	Oct. 11, 1875	491	159	8	642
Door	W. C. Hurd	6,549	July 20, 1875	768	235	8	139
Door-hanger	J. Lumbert	6,735	Nov. 9, 1875	573	178	8	816
Drawing-book	A. Forbriger	6,271	Feb. 2, 1875	244	79	7	218
Drum, Stove-pipe	E. S. Blake	6,720	Nov. 2, 1875	273	88	8	771
E.							
Egg-beater	T. Earle	6,542	July 13, 1875	517	{ 157 158 }	8	88
Egg stand and boiler	E. P. Woods and D. Sherwood	6,632	Sept. 7, 1875	200	63	8	434
Ejector, Water	H. Coll	6,759	Nov. 23, 1875	1096	345	8	903
Electro-magnetic house-alarm	W. Whiting	6,599	Aug. 17, 1875	711	{ 221 222 }	8	317
Envelope	R. S. Jennings	6,820	Dec. 21, 1875	795	262	8	1071
Envelope-machine	J. Ball	6,540	July 13, 1875	511	{ 157 158 }	8	87
Envelopes, Manufacture of	J. Ball	6,621	Aug. 31, 1875	1171	369	8	397
Eraser-holder and pencil-point protector	L. L. Tower	6,766	Nov. 23, 1875	1104	346	8	904

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Alphabetical list of reissues—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Eraser-holder and pencil-point protector.....	L. L. Tower.....	6,767	Nov. 23, 1875	1105	347	8	904
Explosive compound.....	C. A. and I. S. Browne.....	6,564	July 27, 1875	1048	.....	8	189
Explosive compound.....	R. Cahuc.....	6,601	Aug. 71, 1875	716	.....	8	318
Explosive compound.....	C. Dittmar.....	6,645	Sept. 14, 1875	412	.....	8	472
Eyelet.....	T. Garrick.....	6,512	June 29, 1875	1243	400	7	1132
Eyelets, Manufacture of.....	E. Parker.....	6,426	May 11, 1875	544	173	7	826
Eyeletting-machine.....	J. E. Wiggin.....	6,489	June 15, 1875	753	246	7	1052
F.							
Fare-box.....	H. Tupper.....	6,689	Oct. 11, 1875	481	{ 156 157 }	8	640
Faucet.....	J. G. Bickel.....	6,394	Apr. 23, 1875	821	265	7	695
Faucet.....	C. A. Douglas.....	6,701	Oct. 19, 1875	726	239	8	683
Faucet, Measuring.....	F. C. Heiser.....	6,722	Nov. 2, 1875	276	89	8	771
Fence, Farm.....	L. E. Hogue.....	6,368	Apr. 6, 1875	236	78	7	602
Fence, Iron.....	J. B. Wickersham.....	6,685	Oct. 5, 1875	229	74	8	596
Fences, Device for tightening wire.....	P. S. Crawford.....	6,546	July 20, 1875	766	234	8	138
Finger-ring-box cushions, Machine for making.....	B. L. Dennison.....	6,780	Dec. 7, 1875	244	83	8	983
Fire-alarm apparatus, Electro-magnetic.....	M. G. Farmer.....	6,244	Jan. 19, 1875	654	214	7	128
Fire-arm, Revolving.....	B. H. Williams.....	6,569	Aug. 3, 1875	247	75	8	234
Fire-extinguisher.....	E. H. Ashcroft.....	6,653	Sept. 21, 1875	665	211	8	516
Fire-extinguisher.....	H. S. Parmelee.....	6,257	Jan. 26, 1875	882	286	7	167
Fire-kindler.....	J. D. Husbands, jr.....	6,246	Jan. 19, 1875	661	215	7	128
Fire-kindler.....	W. C. Philbrick.....	6,472	June 1, 1875	217	76	7	959
Fire-place heater.....	W. L. Phillips.....	6,233	Jan. 12, 1875	404	136	7	80
Flask and bottle.....	W. T. Fry.....	6,613	Aug. 24, 1875	957	298	8	360
Flour-bolt.....	G. T. and A. Smith.....	6,619	Aug. 24, 1875	663	300	8	360
Flour-bolting machine.....	W. F. Cochrane.....	6,594	Aug. 17, 1875	704	219	8	316
Flour-bolting machine.....	W. F. Cochrane.....	6,595	Aug. 17, 1875	706	219	8	316
Flower-maker's grass-cutting machine.....	T. and J. Millot.....	6,297	Feb. 16, 1875	740	246	7	298
Fly-trap.....	J. M. Harper.....	6,493	June 22, 1875	1007	325	7	1093
Fly-trap.....	J. Parker.....	6,811	Dec. 21, 1875	785	260	8	1070
Folding chair.....	P. Born.....	6,815	Dec. 21, 1875	788	261	8	1070
Folding chair.....	A. D. Whitmore.....	6,711	Oct. 19, 1875	740	242	8	684
Forging metallic sockets, Machine for.....	G. Fitch and P. Shafer.....	6,404	Apr. 27, 1875	1103	348	7	738
Fulling-mill.....	R. Eickemeyer.....	6,358	Mar. 30, 1875	1287	414	7	555
Funnel, Bung.....	J. Buck.....	6,784	Dec. 7, 1875	250	84	8	983
Furnace.....	W. E. Haxtun.....	6,503	June 22, 1875	1019	329	7	1094
Furnace for burning edgings, sawdust, &c.....	I. O. Smith.....	6,600	Aug. 17, 1875	715	222	8	317
Furnaces, Straw-feeding attachment for.....	D. Morey.....	6,420	May 4, 1875	252	81	7	780
G.							
Gas from petroleum, Making illuminating.....	W. C. Wren and W. Barker.....	6,568	July 27, 1875	1055	324	8	190
Gas generator, Carbonic-acid.....	O. Zwietsch.....	6,227	Feb. 9, 1875	480	{ 160 161 }	7	260
Gas light and pressure indicator.....	W. W. Goodwin.....	6,254	Jan. 26, 1875	879	296	7	167
Gas-lighting by electricity.....	S. Gardiner, jr.....	6,377	Apr. 13, 1875	496	164	7	647
Gas-meter register.....	H. H. Edgerton.....	6,253	Jan. 26, 1875	878	285	7	167
Glove.....	S. J. Clute and D. M. Durfee.....	6,352	Mar. 30, 1875	1280	411	7	554
Grain-cleaning machine.....	G. E. Throop.....	6,629	Sept. 7, 1875	197	62	8	433
Grain-drill.....	C. E. Patric.....	6,274	Feb. 2, 1875	246	80	7	218
Grain-drier.....	R. S. Reynolds.....	6,361	Mar. 30, 1875	1292	{ 414 415 }	7	556
Grain-drier.....	J. B. Wheeler.....	6,307	Feb. 23, 1875	971	320	7	339
Grain-elevator.....	H. I., P. F., and E. D. Chase.....	6,227	Jan. 12, 1875	398	134	7	79
Grain-elevator.....	H. I., P. F., and E. D. Chase.....	6,228	Jan. 12, 1875	399	134	7	80
Grate.....	F. S. Bissell.....	6,407	May 4, 1875	241	77	7	779
Grate.....	E. S. Renwick.....	6,439	May 18, 1875	813	{ 256 257 }	7	876
Grate-bar.....	R. C. Graves.....	6,353	Mar. 30, 1875	1281	411	7	554
Grate, Furnace.....	H. Ryder.....	6,259	Jan. 26, 1875	884	287	7	168
Grinding rolls or rollers, Machine for.....	J. M. Poole.....	6,323	Mar. 9, 1875	451	149	7	421
Grist-alarm.....	G. H. Eastman.....	6,655	Sept. 21, 1875	667	211	8	516
Gutters for buildings, Machine for making.....	A. K. P. Buffum.....	6,675	Oct. 5, 1875	218	70, 71	8	595
H.							
Hammer, Claw.....	D. W. Parker.....	6,623	Aug. 31, 1875	1173	369	8	398
Harness-rosette.....	W. Ulrich and C. Hachmeister.....	6,643	Sept. 14, 1875	410	131	8	472
Harrow.....	W. S. O'Brien.....	6,606	Aug. 24, 1875	945	295	8	358
Harvester.....	J. E. Buxton and T. J. Howe.....	6,351	Mar. 30, 1875	1278	411	7	554
Harvester.....	C. Crook.....	6,798	Dec. 14, 1875	538	177	8	1029
Harvester.....	J. H. Elward.....	6,359	Mar. 30, 1875	1390	414	7	556
Harvester.....	J. H. Elward.....	6,395	Apr. 20, 1875	823	265	7	695
Harvester.....	J. H. Elward.....	6,403	Apr. 27, 1875	1100	347	7	738
Harvester.....	J. Gore.....	6,640	Sept. 14, 1875	406	130	8	471
Harvester.....	J. P. Manny.....	6,382	Apr. 13, 1875	502	{ 165 166 167 }	7	648
Harvester.....	J. P. Manny.....	6,383	Apr. 13, 1875	506	{ 166 167 }	7	648
Harvester.....	C. W. and W. W. Marsh.....	6,223	Jan. 12, 1875	394	133	7	79
Harvester.....	C. W. and W. W. Marsh.....	6,224	Jan. 12, 1875	395	133	7	79
Harvester.....	C. W. and W. W. Marsh.....	6,329	Mar. 9, 1875	460	151	7	422
Harvester.....	C. W. and W. W. Marsh.....	6,330	Mar. 9, 1875	460	152	7	422
Harvester.....	L. and J. Miller.....	6,485	June 15, 1875	747	244	7	1051
Harvester.....	L. B. Stilson.....	6,524	June 29, 1875	1254	403	7	1134
Harvester.....	S. W. Tyler.....	6,609	Aug. 24, 1875	950	297	8	359
Harvester crank and pin.....	J. Kline.....	6,490	June 15, 1875	754	246	7	1052
Harvester pitman guide and holder.....	E. F. Herrington.....	6,514	June 29, 1875	1245	400	7	1133
Harvester-rake.....	I. Doderhoff.....	6,339	Mar. 16, 1875	693	{ 227 228 }	7	462
Harvester-rake.....	A. A. Henderson.....	6,336	Mar. 16, 1875	689	{ 226 227 }	7	462

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
				Spec.	Dr'g.	Vol.	Page.
Harvester-rake.....	J. H. Mears.....	6,454	May 25, 1875	1064	336	7	917
Harvester-rake.....	J. Rynearson.....	6,349	Mar. 23, 1875	1016	331	7	512
Harvester track-clearer.....	O. Du Bois.....	6,201	Jan. 5, 1875	183	64	7	35
Hat-holder and check, Combined.....	J. E. Smith.....	6,796	Dec. 14, 1875	536	176	8	1029
Hat-trimmings, Machine for covering reeds for.....	G. A. Shepard.....	6,782	Dec. 7, 1875	247	84	8	953
Hay-rake, Horse.....	B. Owen.....	6,304	Feb. 23, 1875	968	319	7	338
Hay-rake, Horse.....	B. Owen.....	6,617	Aug. 24, 1875	661	299	8	360
Hay-rake, Horse.....	R. Wilson.....	6,214	Jan. 5, 1875	198	67, 68	7	36
Hay, straw, and other bales.....	L. Dodge.....	6,243	Jan. 19, 1875	653	213	7	128
Head-light lens.....	H. C. Felthousen.....	6,343	Mar. 23, 1875	1010	329	7	511
Heater and feeder.....	R. Garstang.....	6,802	Dec. 14, 1875	542	178	8	1029
Heel-stiffener.....	J. W. Hatch.....	6,388	Apr. 20, 1875	812	263	7	694
High and low water indicator.....	F. Millward.....	6,668	Sept. 28, 1875	900	287	8	556
Hinge, Door.....	E. U. and W. L. Scoville.....	6,713	Oct. 26, 1875	986	319	8	726
Hoe.....	M. Johnson.....	6,419	May 4, 1875	252	81	7	7-0
Hoisting apparatus.....	J. Hoffman.....	6,597	Aug. 17, 1875	709	220	8	316
Hoof-spreader.....	T. Armstrong.....	6,364	Apr. 6, 1875	232	77	7	602
Horse-power.....	J. M. Albertson.....	6,247	Jan. 26, 1875	869	283	7	166
Horse-power.....	J. S. Scofield.....	6,268	Feb. 2, 1875	240	78	7	218
Horse-power.....	O. O. Storle.....	6,631	Sept. 7, 1875	199	62	8	434
Horse-rake.....	S. R. Nye.....	6,678	Oct. 5, 1875	222	72	8	595
Horse-rake.....	S. R. Nye.....	6,679	Oct. 5, 1875	2-3	72, 73	8	595
Horse-rake.....	J. Pennypacker.....	6,471	June 1, 1875	215	75, 76	7	959
Horse-rake.....	J. J. Squire.....	6,670	Sept. 28, 1875	903	287	8	556
Horseshoe-nail-finishing machine.....	H. A. Wills.....	6,712	Oct. 19, 1875	740	242	8	684
Horseshoe-nail machine.....	J. Roy.....	6,776	Nov. 30, 1875	1327	419	8	942
Horseshoe-nails, Finishing.....	H. A. Wills.....	6,713	Oct. 19, 1875	742	.....	8	684
Hose, Manufacture of India-rubber.....	T. J. Mayall.....	6,545	July 13, 1875	519	.....	8	88
Hot-air furnace.....	D. Boyd.....	6,290	Feb. 16, 1875	728	242	7	296
Hot-air furnace.....	S. E. Foster.....	6,727	Nov. 2, 1875	283	91	8	772
Hot-air furnace.....	J. G. Weldon.....	6,294	Feb. 16, 1875	733	244	7	297
Hub, Vehicle-wheel.....	C. H. Guard.....	6,273	Feb. 2, 1875	245	80	7	218
Hydraulic elevator.....	T. Stebins.....	6,459	May 25, 1875	1070	337	7	918
Hydraulic jack.....	E. M. Dudgeon.....	6,786	Dec. 7, 1875	253	85	8	984
I.							
Inhaler and nasal douche, Combined.....	E. Scofield.....	6,260	Jan. 26, 1875	885	287	7	168
Injector.....	W. Randall.....	6,414	May 4, 1875	247	79	7	720
Injector, Insect-powder.....	C. Chinnock.....	6,265	Feb. 2, 1875	238	78	7	217
Inkstand.....	A. W. Brinkerhoff.....	6,200	Jan. 5, 1875	182	63	7	34
Inkstand.....	S. Darling.....	6,443	May 25, 1875	1053	333	7	916
Inkstand.....	S. Darling.....	6,574	Aug. 3, 1875	252	76	8	235
Iron into steel, Converting.....	E. F. Houghton.....	6,562	July 27, 1875	1046	.....	8	189
Ironing-apparatus.....	G. W. Cottingham.....	6,654	Sept. 21, 1875	666	211	8	516
K.							
Kettle, Boiling.....	S. Spoor.....	6,406	Apr. 27, 1875	1105	348	7	738
Key-check.....	J. J. De Barry.....	6,342	Mar. 23, 1875	1009	329	7	511
Knit-fabrics, Machine for drying tubular.....	W. K. Greene, jr., and W. W. Pawling.....	6,587	Aug. 10, 1875	474	145 } 146	8	274
Knit-fabrics, Machine for drying tubular.....	P. K. Greene, jr., and W. W. Pawling.....	6,588	Aug. 10, 1875	476	146	8	274
Knitted bag for compressed vegetable substances.....	J. D. Culp.....	6,779	Dec. 7, 1875	243	83	8	983
Knitting-machine.....	D. Brickford.....	6,423	May 11, 1875	536	173	7	825
Knitting-machine.....	D. Brickford.....	6,424	May 11, 1875	540	173	7	825
L.							
Lamp.....	S. C. Moore.....	6,374	Apr. 13, 1875	493	163	7	647
Lamp.....	B. B. Schneider.....	6,355	Mar. 30, 1875	1282	412	7	555
Lamp, Street.....	H. Wellington.....	6,789	Dec. 7, 1875	257	86	8	984
Lantern.....	J. Kintz.....	6,230	Jan. 12, 1875	402	135	7	80
Latch and lock case, Reversible.....	J. Kinzer.....	6,282	Feb. 9, 1875	474	159	7	258
Lathing, Metallic.....	I. V. Holmes.....	6,590	Aug. 10, 1875	480	147	8	275
Leather-stretching apparatus.....	S. D. Castle.....	6,252	Jan. 26, 1875	877	285	7	167
Lime-kiln.....	W. S. Sampson.....	6,494	June 22, 1875	1008	326	7	1093
Lime-kiln.....	W. S. Sampson.....	6,495	June 22, 1875	1010	326	7	1093
Lime-kiln.....	W. S. Sampson.....	6,608	Aug. 24, 1875	949	296 } 297	8	359
Liquids, Apparatus for expressing.....	L. Breval.....	6,721	Nov. 2, 1875	274	89	8	771
Liquors, Apparatus for forcing.....	J. F. Bennett.....	6,639	Sept. 14, 1875	405	130	8	471
Locomotive signal-light.....	A. Dick.....	6,823	Dec. 28, 1875	985	319	8	1106
Log-turner for saw-mills.....	G. H. Shearer.....	6,777	Nov. 30, 1875	1329	419	8	942
Loom.....	W. V. Gee.....	6,301	Feb. 23, 1875	964	317 } 318	7	338
Loom-harness motion.....	G. Crompton.....	6,442	May 25, 1875	1051	333	7	916
Loom-heddle frame.....	H. Parsons.....	6,466	June 1, 1875	207	74	7	959
Loom-heddle, Wire.....	D. C. Brown.....	6,547	July 20, 1875	767	234 } 235	8	139
Loom-shedding mechanism.....	G. Crompton.....	6,314	Mar. 2, 1875	228	78	7	382
Loom-shedding mechanism.....	R. Elliott.....	6,793	Dec. 14, 1875	533	176	8	1028
Loom-shuttle-box mechanism.....	H. Wyman.....	6,567	July 27, 1875	1053	323	8	190
Loom-shuttle motion.....	C. I. Kane.....	6,702	Oct. 19, 1875	727	240	8	6-3
Loom weft-stop mechanism.....	T. Isherwood and W. Nuttal.....	6,761	Nov. 23, 1875	1099	345	8	903
Lubricating wheel and pulley.....	J. K. McLanahan.....	6,203	Jan. 5, 1875	185	64	7	35
Lubricator.....	H. McGraw.....	6,202	Jan. 5, 1875	184	64	7	35
Lubricator.....	J. A. Osenbrück.....	6,794	Dec. 14, 1875	534	176	8	1028
Making-wheels.....	H. Holt.....	6,714	Oct. 26, 1875	982	317	8	725
Matches, Manufacture of.....	E. Andrews and W. Tucker.....	6,276	Feb. 9, 1875	469	157	7	258
Measure, Rotary cloth.....	W. Hobdon.....	6,437	May 18, 1875	811	256	7	876
Measuring packaged fabrics.....	S. C. Tolcott.....	6,829	Dec. 28, 1875	993	321	8	1106
Meat-chopper.....	D. Peters.....	6,236	Jan. 19, 1875	637	211	7	126
Meat-chopper.....	D. Peters.....	6,237	Jan. 19, 1875	638	212	7	126

Alphabetical list of reissues—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Metallic vessel	W. B. Scaife	6,391	Apr. 20, 1875	818	264	7	695
Metallic vessel	W. B. Scaife	6,392	Apr. 20, 1875	819	265	7	695
Milk-cooler	C. A. Douglas	6,744	Nov. 16, 1875	821	259	8	857
Mill-spindle	J. A. Hafner	6,492	June 22, 1875	1007	325	7	1092
Millstone-dressing tool	J. Norman	6,283	Feb. 9, 1875	475	159	7	259
Mitten	A. P. Smith	6,764	Nov. 23, 1875	1102	346	8	904
Monument	J. Sharkey	6,507	June 22, 1875	1022	311	7	1094
Mop and brush holder	A. P. Seymour	6,719	Oct. 26, 1875	987	319	8	726
Mop-head	W. H. Curtis	6,772	Nov. 30, 1875	1321	417	8	941
Motion, Device for converting	W. F. Barnes	6,674	Oct. 5, 1875	217	70	8	595
Motive-power, Apparatus for transmitting	R. T. Smith	6,400	Apr. 27, 1875	1096	347	7	737
Mower, Lawn	E. G. Passmore	6,305	Feb. 23, 1875	969	319	7	338
Mowing-machine	A. B. Allen	6,332	Mar. 16, 1875	686	225	7	461
Mowing-machine	J. P. Manny	6,381	Apr. 13, 1875	500	164	7	648
Musical instruments, Machine for trimming keys of	M. Pratt	6,455	May 25, 1875	1065	165		
N.							
Nail-cutting machine	W. Haddock	6,435	May 18, 1875	808	255	7	875
O.							
Oil-can, Stand	J. D. Gray	6,396	Apr. 20, 1875	825	266	7	696
Oil-tank	W. C. Strickler	6,736	Nov. 9, 1875	574	178	8	816
Ore-reducing furnace	J. H. Boyd	6,610	Aug. 24, 1875	953	297	8	359
Ore-separator	H. P. Minot	6,538	July 13, 1875	509	156	8	87
Ore-stamp feeder	J. Tullock	6,554	July 20, 1875	774	237	8	140
Ores, Treating	D. Mindeleff	6,519	June 29, 1875	1249	399	7	1134
Organ reed-board	A. W. Wilcox	6,637	Sept. 7, 1875	205	64	8	434
Organ reed-board	A. W. Wilcox	6,638	Sept. 7, 1875	206	64	8	434
Oven, Baker's	D. McKenzie	6,397	Apr. 20, 1875	826	266	7	696
Oven, Desulphurizing	J. C. Brewster	6,278	Feb. 9, 1875	471	158	7	258
Overshoe	J. J. Mellon	6,725	Nov. 2, 1875	280	90	8	772
P.							
Packing for steam and other engines	W. Peters	6,680	Oct. 11, 1875	480	148	8	640
Packing for steam-condenser tubes	W. A. Lighthall	6,661	Sept. 28, 1875	892	285	8	555
Packing-machine	A. Ralph	6,457	May 25, 1875	1068	337	7	918
Pantaloons, &c.	J. W. Davis	6,335	Mar. 16, 1875	688	226	7	461
Pants and other garments	G. R. Eager	6,280	Feb. 9, 1875	472	158	7	258
Paper barrel	J. W. Jarboe	6,515	June 29, 1875	1245	400	7	1133
Paper barrel and cylindrical box	B. Rhodes	6,551	July 20, 1875	772	236	8	139
Paper-board, Manufacture of	B. F. Field	6,502	June 22, 1875	1017	328	7	1094
Paper box	T. J. Powers	6,618	Aug. 24, 1875	662	300	8	360
Paper box	J. L. Reber	6,806	Dec. 14, 1875	547	179	8	1030
Paper box	E. D. Shelton	6,680	Oct. 5, 1875	224	73	8	596
Paper-box machine	F. Gates	6,245	Jan. 19, 1875	657	214	7	128
Paper-box machine	H. R. Heyl and A. Brehmer	6,745	Nov. 16, 1875	822	215		
Paper collar	S. S. Gray	6,691	Oct. 11, 1875	484	259	8	857
Paper, &c., cutting machine	J. Ball	6,324	Mar. 9, 1875	454	260		
Paper-cutting machine	S. W. Soule	6,710	Oct. 19, 1875	738	157	8	641
Paper, Device for protecting the ends of rolls of	J. L. Firm	6,533	July 6, 1875	256	150	7	422
Paper-planishing machine	J. F. Schuyler	6,470	June 1, 1875	214	242	8	684
Paper, Process of cutting wet	J. Eachus	6,315	Mar. 2, 1875	230	76	8	43
Paper-pulp from palm, Making	J. P. Herion	6,646	Sept. 14, 1875	413	75	7	959
Paper vessel	E. Waters	6,627	Aug. 31, 1875	1176	78	7	382
Paper wagon-body	J. W. Jarboe	6,770	Nov. 30, 1875	1320	413	8	472
Paper wagon-body	J. W. Jarboe	6,771	Nov. 30, 1875	1321	370	8	398
Pavement	A. B. Dean	6,570	Aug. 3, 1875	249	417	8	941
Pavement	W. W. Hubbell	6,826	Dec. 28, 1875	989	417	8	941
Pavement, Composition	J. P. Cranford	6,511	June 29, 1875	1242	417	8	941
Pavements, Repairing	H. W. Gould	6,272	Feb. 2, 1875	245	249	8	234
Peg blank, Shoe	B. F. Sturtevant	6,300	Feb. 16, 1875	743	246	8	1106
Peg or sole-fastening	C. and J. G. Rowland	6,298	Feb. 16, 1875	741	79	7	218
Peg-strips, Machine for making compressed	C. and J. G. Rowland	6,299	Feb. 16, 1875	741	246	7	298
Pegging-machine	L. Goddu	6,803	Dec. 14, 1875	543	246	7	298
Pencils, Rubber eraser for lead	J. B. Blair	6,510	June 29, 1875	1241	246	7	298
Plaiting device	W. Walker	6,704	Oct. 19, 1875	729	178	8	1029
Plane, Bench	L. Bailey	6,498	June 22, 1875	1013	399	7	1132
Plane-iron	J. J. Ralya	6,462	May 25, 1875	1074	327	7	1093
Planing and matching machine, Combined	W. H. Doane and W. E. London	6,773	Nov. 30, 1875	1322	338	7	918
Planing-machine	O. G. Howes	6,412	May 4, 1875	246	417	8	942
Planter, Corn	J. Campbell	6,372	Apr. 13, 1875	490	79		
Planter, Corn	G. D. Haworth	6,818	Dec. 21, 1875	792	162	7	779
Planter, Corn	J. Thomson and J. Ramsey	6,821	Dec. 21, 1875	796	261	8	1071
Planter, Seed	G. W. Brown	6,384	Apr. 20, 1875	807	262	8	1071
Planter, Seed	G. W. Brown	6,385	Apr. 20, 1875	809	262	7	693
Planter, Seed	G. W. Brown	6,755	Nov. 23, 1875	1093	263	7	693
Planter, Seed	G. W. Brown	6,756	Nov. 23, 1875	1094	343	8	902
Planter, Seed	G. W. Brown	6,757	Nov. 23, 1875	1095	344	8	903
Planter, Seed	J. Campbell	6,270	Feb. 2, 1875	242	344	8	903
Plow	W. K. Harrell	6,804	Dec. 14, 1875	545	79	7	218
Plow	J. Lane	6,320	Mar. 9, 1875	449	178	8	1030
Plow	J. Lane, jr	6,405	Apr. 27, 1875	1105	149	7	421
Plow-jointer	H. Gale	6,824	Dec. 28, 1875	987	348	7	738
Plow, Sulky	B. Slusser	6,563	July 27, 1875	1047	319	8	1106
Plows, Composition metal for casting	G. K. Smith	6,558	July 27, 1875	1043	322	8	189
Plumber's joint	I. F. Van Duzer	6,488	June 15, 1875	752	322	8	189
Portable fountain and lawn-sprinkler	R. Brusie	6,560	July 27, 1875	1045	321	8	188

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Pottery-molding machine.....	W. Linton.....	6,425	May 11, 1875	542	173	7	825
Preserving and packing cooked meats, Process for.....	W. J. Wilson.....	6,370	Apr. 6, 1875	238		7	602
Preserving meat, Apparatus for.....	W. C. Marshall.....	6,452	May 26, 1875	1062	335	7	917
Preserving meat, Process for.....	W. C. Marshall.....	6,451	May 25, 1875	1061	.....	7	917
Pressure-gage.....	J. W. Stiles.....	6,530	July 6, 1875	252	75	8	42
Printer's case.....	A. T. De Puy.....	6,801	Dec. 14, 1875	541	178	8	1029
Printer's galley.....	A. T. De Puy.....	6,326	Mar. 9, 1875	457	151	7	422
Printer's galley.....	A. T. De Puy.....	6,327	Mar. 9, 1875	458	151	7	422
Printing-press.....	J. L. Firm.....	6,760	Nov. 23, 1875	1097	345	8	903
Pruning implement.....	E. E. Stedman.....	6,261	Jan. 26, 1875	887	287	7	168
Puddling-furnace.....	S. Caddick.....	6,778	Dec. 7, 1875	241	82, 83	8	983
Pulley.....	R. W. Betts and W. Howie.....	6,822	Dec. 28, 1875	984	318	8	1105
Pump.....	J. Bean.....	6,703	Oct. 19, 1875	728	240	8	683
Pump.....	F. Curtis and E. P. Russell.....	6,357	Mar. 30, 1875	1285	413	7	555
Pump.....	W. J. Johnson.....	6,649	Sept. 21, 1875	660	269	8	5 5
Pump.....	A. N. Parkhurst.....	6,669	Sept. 28, 1875	902	287	8	556
Pump.....	A. M. Putnam.....	6,537	July 6, 1875	271	79	8	44
Pump bucket, Chain.....	W. C. Barker.....	6,531	July 6, 1875	254	76	8	43
Pump, Chain.....	W. Cooper.....	6,700	Oct. 19, 1875	725	239	8	682
Pump, Chain.....	C. Fishbaugh.....	6,612	Aug. 24, 1875	957	298	8	359
Pump, Deep-well.....	J. T. Whipple.....	6,477	June 1, 1875	223	77	7	960
Pump handles and pitmen, Link for connecting.....	L. W. and C. Olds.....	6,543	July 13, 1875	518	152	8	88
Pump, Steam.....	W. Wright.....	6,393	Apr. 20, 1875	820	265	7	695
Pumping wells, Means for.....	A. E. Nickerson and L. C. Streeter.....	6,486	June 15, 1875	749	244	7	1051
Punch, Registering ticket.....	A. D. Hoffman.....	6,746	Nov. 16, 1875	826	260	8	857
Putty, Manufacture of.....	C. W. Hatfield.....	6,360	Mar. 30, 1875	1291	.....	7	556
Radiator, Steam.....	A. L. Ide.....	6,810	Dec. 21, 1875	754	259	8	1070
Rails, Roll for reducing old.....	J. P. Edwards and A. J. Rogers.....	6,433	May 18, 1875	805	255	7	875
Railway-frog.....	J. Brahn.....	6,573	Aug. 3, 1875	252	76	8	235
Railway-rails, Roll for utilizing the fag-ends of.....	H. Chisholm.....	6,484	June 15, 1875	746	244	7	1051
Railway-rails, Roll for utilizing the fag-ends of.....	H. Chisholm.....	6,738	Nov. 16, 1875	815	257	8	856
Railway-signal apparatus, Electric.....	H. W. Spang.....	6,318	Mar. 2, 1875	233	79	7	322
Railway-signaling apparatus, Circuit and circuit-closer for.....	H. W. Spang.....	6,476	June 1, 1875	221	77	7	960
Railway-signaling apparatus, Electric.....	F. L. Pope.....	6,578	Aug. 3, 1875	260	78	8	236
Railway-signaling apparatus, Electric.....	F. L. Pope.....	6,579	Aug. 3, 1875	263	78, 79	8	236
Reclining-chair.....	G. Hunzinger.....	6,641	Sept. 14, 1875	408	131	8	472
Rendering animal fats.....	W. E. Andrew.....	6,737	Nov. 16, 1875	814	.....	8	856
Revolvers, Safety-catch for.....	C. W. Hopkins.....	6,715	Oct. 26, 1875	983	318	8	746
Rock-drill.....	S. Ingersoll.....	6,293	Feb. 16, 1875	732	243	7	297
Rock-drill.....	W. R. King.....	6,716	Oct. 26, 1875	984	318 } 319 }	8	726
Rock-drill.....	E. S. Winchester.....	6,620	Aug. 24, 1875	664	300	8	360
Rock-drilling machine.....	S. Ingersoll.....	6,292	Feb. 16, 1875	730	242 } 243 }	7	297
Rock-drilling machines, Tripod for.....	G. B. Waring.....	6,705	Oct. 19, 1875	731	241	8	683
Rolling machine, Metal.....	L. Thomas.....	6,216	Jan. 12, 1875	326	131	7	78
Roving-frame.....	T. Mayor.....	6,302	Feb. 23, 1875	965	318	7	338
Ruffle, Band.....	T. Robjohn.....	6,686	Oct. 5, 1875	230	75	8	596
Ruffle-making machine.....	J. A. Pipo.....	6,565	July 27, 1875	1049	322	8	189
Ruffles, Apparatus for making fluted.....	T. Robjohn.....	6,308	Feb. 23, 1875	973	320	7	339
Ruffles, Machine for making band.....	T. Robjohn.....	6,687	Oct. 5, 1875	231	75	8	596
S.							
Sand and gravel separator.....	N. J. Keller.....	6,598	Aug. 17, 1875	710	220 } 221 }	8	317
Sash-balance.....	O. Davis.....	6,334	Mar. 16, 1875	688	226	7	461
Sash-holder.....	L. J. Baker.....	6,263	Feb. 2, 1875	235	77	7	217
Sash-lock.....	G. McGregor and G. Voll.....	6,693	Oct. 11, 1875	485	158	8	641
Sash-supporter.....	H. F. Jenks.....	6,256	Jan. 26, 1875	881	286	7	167
Saw-grinding machine.....	D. M. Mefford.....	6,303	Feb. 23, 1875	967	318	7	338
Saw-mill dog.....	H. D. Dann.....	6,733	Nov. 9, 1875	571	177	8	816
Saw-mill head-block.....	F. J. Stailey.....	6,808	Dec. 14, 1875	550	180	8	1030
Saw-swaging machine.....	L. W. Pond.....	6,322	Mar. 9, 1875	450	149	7	421
Sawing-machine.....	J. Frey and J. M. Eiebholtz.....	6,586	Aug. 13, 1875	473	145	8	274
Sawing-machine.....	C. H. Mayo.....	6,317	Mar. 2, 1875	231	79	7	322
Sawing-machine, Band.....	D. Bonney.....	6,340	Mar. 23, 1875	1007	328	7	511
School settee and desk.....	J. Peard.....	6,536	July 6, 1875	269	79	8	44
Scraper, Rotary road.....	J. W. Wilson.....	6,555	July 20, 1875	775	237	8	140
Screw, Wood.....	A. Cummings.....	6,729	Nov. 9, 1875	565	176	8	815
Screw, Wood.....	A. Cummings.....	6,730	Nov. 9, 1875	566	177	8	815
Screw, Wood.....	S. W. Young.....	6,571	Aug. 3, 1875	250	75	8	234
Seaming machine, Can.....	L. C. Beardsley.....	6,522	Aug. 10, 1875	468	144	8	273
Seed-drill.....	B. Kuhns.....	6,672	Oct. 5, 1875	214	70	8	50
Seeding-machine.....	W. P. Penn.....	6,726	Nov. 2, 1875	281	91	8	772
Sewed or stitched, Trimming material while being.....	W. A. Springer.....	6,593	Aug. 10, 1875	484	148	8	275
Sewing-machine.....	C. F. Bosworth.....	6,463	June 1, 1875	202	72, 73	7	958
Sewing-machine.....	C. F. Bosworth.....	6,467	June 1, 1875	208	74	7	959
Sewing-machine.....	C. Hodgkins.....	6,596	Aug. 17, 1875	708	220	8	316
Sewing-machine.....	A. F. Johnson.....	6,550	July 20, 1875	769	235 } 236 }	8	139
Sewing-machine.....	G. McKay and R. H. Mathies.....	6,535	July 6, 1875	259	77 } 78 }	8	43
Sewing-machine.....	E. H. Smith.....	6,807	Dec. 14, 1875	548	179	8	1030
Sewing-machine-attachment clamp.....	J. G. Powell.....	6,306	Feb. 23, 1875	971	319	7	339
Sewing machine, Boot and shoe.....	H. Dunham, jr.....	6,295	Feb. 16, 1875	734	244	7	297
Sewing-machine corder.....	W. Wilson.....	6,603	Aug. 17, 1875	717	222	8	318
Sewing-machine embroidering attachment.....	L. M. Rose.....	6,413	June 1, 1875	218	76	7	960
Sewing-machine for making band-ruffling.....	T. Robjohn.....	6,566	July 27, 1875	1050	323	8	189
Sewing-machine for sewing the sweat-lining of hats.....	R. Eickemeyer.....	6,311	Mar. 2, 1875	224	77	7	341
Sewing machine gathering attachment.....	A. Everiss.....	6,690	Oct. 11, 1875	482	157	8	640

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Invention or discovery.	Name of patentee.	No.	Date.	Monthly volume.		Official Gazette.	
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Sewing-machine plaiting attachment	W. Walker	6,635	Sept. 7, 1875	202	63	8	434
Sewing-machine table	F. R. Wolfinger	6,420	May 11, 1875	548	175	7	826
Sewing-machine treadle	R. F. Wilcox	6,602	Aug. 17, 1875	717	222	8	318
Sewing-machine trimming and cutting attachment	W. A. Springer	6,592	Aug. 10, 1875	483	147 148	8	275
Sewing-machine tuck-marker	H. C. Goodrich	6,216	Mar. 2, 1875	230	79	7	382
Sewing-machines, Anti-rattling journal for balancing-wheels of	P. L. Reese	6,284	Feb. 9, 1875	476	159	7	259
Shearing machine, Animal	G. F. Evans	6,622	Aug. 31, 1875	1172	369	8	398
Sheet-metal can	L. C. Beardsley	6,583	Aug. 10, 1875	470	144	8	273
Shingle-packer	R. B. Taylor	6,742	Nov. 16, 1875	819	258	8	857
Shingle-packer clamp	R. B. Taylor	6,741	Nov. 16, 1875	819	258	8	857
Shirt	J. H. Myers	6,749	Nov. 16, 1875	830	261	8	858
Shoe	A. Ballard	6,353	Mar. 16, 1875	687	226	7	461
Shoe	C. F. Hill	6,281	Feb. 9, 1875	473	159	7	258
Shoe	J. H. Hussey	6,438	May 18, 1875	812	256	7	876
Shoe	C. Perley	6,354	Mar. 30, 1875	1281	412	7	555
Shoe-uppers, Form for fitting	W. J. B. Mills	6,235	Jan. 19, 1875	635	211	7	126
Skate	O. Edwards	6,410	May 4, 1875	244	78	7	779
Skate	O. Edwards	6,676	Oct. 5, 1875	219	71	8	595
Skate	J. Lovatt	6,369	Apr. 6, 1875	237	79	7	602
Skate	E. Murray	6,763	Nov. 23, 1875	1101	346	8	904
Slate-frame	S. B. Bushfield	6,221	Jan. 12, 1875	393	132	7	72
Sleigh knee and beam	D. O. Card	6,408	May 4, 1875	243	75	7	779
Smoke-burning furnace	S. A. Ford	6,666	Sept. 28, 1875	897	286	8	556
Soap, Transparent advertising	S. Stranz	6,624	Aug. 31, 1875	1174	369	8	398
Soles, Apparatus for drying shoe	A. F. Smith	6,362	Mar. 30, 1875	1294	415	7	556
Spading and other forks	E. C. Denio and G. K. Babcock	6,266	Feb. 2, 1875	238	78	7	217
Speaking-tube	C. A. Fredericks	6,604	Aug. 24, 1875	944	295	8	358
Spinning-frame, Ring	C. B. Morse	6,348	Mar. 23, 1875	1015	330	7	512
Spinning-machine bobbin	G. Richardson	6,416	May 4, 1875	249	80	7	780
Spinning-machine spindle	F. J. Rabbeth and J. E. Atwood	6,456	May 25, 1875	1066	336	7	918
Spinning-machine spindle-bolster	G. Richardson	6,415	May 4, 1875	248	79	7	780
Spinning-machine spindles, Adjusting ring	F. A. Sterry	6,765	Nov. 23, 1875	1103	346	8	904
Spinning-ring	W. T. Carroll	6,386	Apr. 20, 1875	810	263	7	694
Spinning-ring	W. Jenckes	6,628	Sept. 7, 1875	196	61	8	433
Spring-motor	A. C. Hallam and J. W. McKee	6,740	Nov. 16, 1875	817	257 258	8	857
Stair-rod	H. Iversen	6,819	Dec. 21, 1875	795	262	8	1071
Starch, spirits, &c., Treatment of grain for the manufacture of	W. Adamson and C. F. A. Simonin	6,226	Jan. 12, 1875	397	.....	7	79
Stave-jointer	J. J. Ralya	6,461	May 25, 1875	1073	338	7	918
Steam and water piping for buildings, System of	J. H. Mills	6,591	Aug. 10, 1875	482	147	8	275
Steam-boiler	H. W. Rice	6,422	May 4, 1875	255	82	7	780
Steam-boiler	M. W. Shapley	6,501	June 22, 1875	1016	328	7	1094
Steam-boiler covering	W. Peters	6,516	June 22, 1875	1246	401	7	1133
Steam-boiler, Rotary	C. W. Pierce	6,750	Nov. 16, 1875	831	261	8	858
Steam-engine	S. F. Davenport	6,532	July 6, 1875	255	76	8	43
Steam engines and calenders, Trunnion for	T. Hill	6,344	Mar. 23, 1875	1010	329	7	511
Steam-generator, Sectional	H. Whittingham	6,262	Jan. 26, 1875	888	288	7	168
Steamboat staging	A. J. Bell	6,509	June 29, 1875	1240	399	7	1132
Stencil-plate	J. L. and H. L. Tarbox	6,753	Nov. 16, 1875	834	262	8	858
Stereoscope	A. Quirolo	6,557	July 27, 1875	1041	321	8	188
Stereotype-plate holder	A. Case	6,325	Mar. 9, 1875	456	150	7	422
Stone, Manufacture of artificial	J. L. Rowland	6,234	Jan. 12, 1875	405	136	7	80
Stool, Kneeling	W. Cabill	6,561	July 27, 1875	1046	322	8	189
Stove	W. Burrows	6,663	Sept. 28, 1875	895	285	8	555
Stove	A. Hamilton	5,500	June 22, 1875	1015	328	7	1094
Stove	G. W. Herrick	6,723	Nov. 2, 1875	277	90	8	771
Stove	E. Smith	6,363	Mar. 30, 1875	1295	415	7	556
Stove, Base-burning	J. Spear	6,206	Jan. 5, 1875	188	65	7	35
Stove, Base-burning	J. Spear	6,207	Jan. 5, 1875	190	65	7	35
Stove, Coal	Z. Hunt	6,709	Oct. 19, 1875	737	241	8	684
Stove, Cooking	E. Bussey	6,785	Dec. 7, 1875	251	84, 85	8	984
Stove, Cooking	J. R. Hyde	6,389	Apr. 20, 1875	813	264	7	694
Stove, Cooking	D. E. Paris	6,465	June 1, 1875	206	73	7	958
Stove, Gas	J. J. West	6,636	Sept. 7, 1875	204	64	8	434
Stove, Heating	N. A. Boynton	6,251	Jan. 26, 1875	876	285	7	167
Stove, Heating	A. Brown	6,441	May 25, 1875	1050	333	7	916
Stove, Heating	G. R. Moore	6,732	Nov. 9, 1875	568	177	8	815
Stove, Heating	C. Brownell	6,460	May 25, 1875	1071	337	7	918
Stove, Reservoir cooking	J. R. Hyde	6,390	Apr. 20, 1875	816	264	7	694
Stove, Reservoir cooking	G. G. Wolfe	6,217	Jan. 12, 1875	387	131	7	78
Stove, Reservoir cooking	G. G. Wolfe	6,218	Jan. 12, 1875	388	132	7	78
Stove, Reservoir cooking	G. G. Wolfe	6,219	Jan. 12, 1875	389	132	7	78
Strainer and funnel combined	C. W. and L. H. Hermance	6,614	Aug. 24, 1875	958	298	8	360
Strainers, Construction of	R. J. P. Goodwin	6,248	Jan. 26, 1875	870	283	7	166
Strap-loop	S. C. Talcott	6,417	May 4, 1875	250	80	7	780
Straw-cutter	J. K. O'Neil	6,232	Jan. 12, 1875	403	135	7	80
Street-sweeping machine	J. Edson	6,658	Sept. 28, 1875	888	283	8	555
Street-sweeping machine	J. Edson	6,659	Sept. 28, 1875	889	284	8	555
Sugar into blocks, Apparatus for compacting granular	A. F. W. Partz	6,208	Jan. 5, 1875	191	66	7	36
Sugar into blocks, Compacting	A. F. W. Partz	6,209	Jan. 5, 1875	192	.....	7	36
Sugar, Manufacturing hard	F. O. Matthiessen	6,413	May 4, 1875	247	.....	7	780
Sugar, Refining	F. O. Matthiessen	6,378	Apr. 13, 1875	497	.....	7	648
Surveying instrument	J. L. Bogy	6,702	Dec. 14, 1875	531	175	8	1028
T.							
Table-mat	C. Weber	6,830	Dec. 28, 1875	995	321	8	1106
Tag-fastener	J. M. Goodridge	6,781	Dec. 7, 1875	247	83	8	983
Teaching penmanship, Copy-slips for	C. Allen	6,706	Oct. 19, 1875	733	241	8	684
Telegraph and circuit therefor, Duplex	J. B. Stearns	6,508	June 22, 1875	1023	330	7	1094
Telegraph for cities, Electro-magnetic fire-alarm	W. F. Channing and M. G. Farmer	6,239	Jan. 19, 1875	641	212	7	127
Telegraph for cities, Electro-magnetic fire-alarm	W. F. Channing and M. G. Farmer	6,240	Jan. 19, 1875	644	213	7	127

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Telegraph for cities, Electro-magnetic fire-alarm.....	W. F. Channing and M. G. Farmer	6, 241	Jan. 19, 1875	647	213	7	127
Telegraph-wire, Sending and receiving messages simultaneously over the same.	M. G. Farmer	6, 296	Feb. 16, 1875	736	245	7	298
Telegraphic-printing apparatus	T. M. Foote and C. A. Randall	6, 434	May 18, 1875	806	255	7	875
Thermometer, Registering	J. V. Raymond	6, 544	July 13, 1875	519	158	8	88
Thill-coupling	G. G. Larkin	6, 450	May 25, 1875	1061	335	7	917
Thill-coupling	G. F. Smith	6, 331	Mar. 9, 1875	462	152	7	422
Thread, Card for wrapping	H. Sutro	6, 751	Nov. 16, 1875	832	261	8	858
Tile, Illuminating	T. Hyatt	6, 630	Sept. 7, 1875	198	62	8	433
Tilting chair	O. A. Bingham	6, 478	June 8, 1875	496	163	7	1008
Tilting chair	D. E. Teal	6, 309	Feb. 23, 1875	974	320	7	339
Time-lock	S. W. Hollen	6, 787	Dec. 7, 1875	254	85	8	984
Toaster or broiler, Wire	S. Ayres and H. J. Chamberlain	6, 371	Apr. 13, 1875	490	162	7	647
Tobacco-cutter	W. H. Pease	6, 728	Nov. 2, 1875	284	91, 92	8	772
Tobacco machine, Plug	J. L. Jones	6, 517	June 29, 1875	1247	401	7	1133
Torsional spring	C. W. Saladee	6, 205	Jan. 5, 1875	187	65	7	35
Toy block	C. M. Crandall	6, 356	Mar. 30, 1875	1284	{ 412 413 }	7	555
Toy building-block	C. M. Crandall	6, 409	May 4, 1875	243	78	7	779
Toy, Chime	E. C. Barton	6, 644	Sept. 14, 1875	411	132	8	472
Toy money-box	C. C. Johnson	6, 734	Nov. 9, 1875	572	178	8	816
Treadle	W. J. Demorest	6, 800	Dec. 14, 1875	540	177	8	1029
Trimming	G. E. King	6, 518	June 29, 1875	1248	401	7	1133
Truck, Hand	L. Gilson	6, 267	Feb. 2, 1875	239	78	7	217
Type-casting machine	J. A. T. Overend	6, 505	June 22, 1875	1021	{ 329 330 }	7	1094
Type-casting machine	J. A. T. Overend	6, 506	June 22, 1875	1022	330	7	1094
V.							
Valve and overflow, Waste	J. Foley	6, 739	Nov. 16, 1875	817	257	8	856
Valve, Balanced slide	W. Obenchain	6, 225	Jan. 12, 1875	396	134	7	79
Valve, Globe	J. Powell	6, 528	July 6, 1875	249	75	8	42
Valve, Globe	J. Powell	6, 529	July 6, 1875	251	75	8	42
Valve, Self-regulating pressure	A. Campbell	6, 264	Feb. 2, 1875	236	77	7	217
Vehicle-spring	E. Chamberlain	6, 611	Aug. 24, 1875	956	298	8	359
Velocipede	J. A. Vander Waag	6, 250	Jan. 26, 1875	875	285	7	167
Veneer-cutting machine	J. C. Brown	6, 341	Mar. 23, 1875	1008	{ 328 329 }	7	511
Vessels, Manufacture of irregular-shaped	B. Rhodes	6, 552	July 20, 1875	773	237	8	139
Violin chin-rest	H. W. White	6, 812	Dec. 21, 1875	786	260	8	1070
W.							
Wagon	E. Huson	6, 660	Sept. 28, 1875	890	284	8	555
Wagon, Dumping	H. Bailey	6, 783	Dec. 7, 1875	249	84	8	983
Wash-bench, Extension	S. Wiswall	6, 398	Apr. 20, 1875	827	266	7	696
Wash-board	W. Todd	6, 673	Oct. 5, 1875	216	70	8	595
Washing-machine	J. P. Barnes	6, 671	Oct. 5, 1875	213	69	8	594
Washing-machine	H. D. Starr	6, 213	Jan. 5, 1875	197	67	7	36
Watch-case	C. K. Colby	6, 585	Aug. 10, 1875	472	145	8	274
Water, Apparatus for removing obstructions under	S. Lewis	6, 249	Jan. 26, 1875	871	284	7	166
Water-closet	J. G. Jennings	6, 616	Aug. 24, 1875	660	299	8	360
Water-closets, Apparatus for emptying	R. Boeklen	6, 584	Aug. 10, 1875	471	144	8	273
Water-heating device	E. R. Stilwell	6, 286	Feb. 9, 1875	478	160	7	259
Water-trap	W. A. Butler	6, 664	Sept. 28, 1875	896	285	8	555
Water-trap	W. A. Butler	6, 665	Sept. 28, 1875	896	286	8	555
Water-trap supply and connection	J. H. Morrell	6, 775	Nov. 30, 1875	1325	419	8	942
Water-wheel	J. W. Ross	6, 285	Feb. 9, 1875	477	160	7	259
Wedge-making machine	G. Morgan and J. R. Foster	6, 682	Oct. 5, 1875	226	74	8	596
Weighing apparatus	A. B. Davis	6, 346	Mar. 23, 1875	1011	330	7	512
Weighing apparatus	A. B. Davis	6, 347	Mar. 23, 1875	1013	330	7	512
Welding chain-links, Machine for	B. Hershey	6, 589	Aug. 10, 1875	577	{ 146 147 }	8	274
Well-boring drill	J. M. May	6, 337	Mar. 16, 1875	690	227	7	462
Well, Driven or bored	M. T. and M. C. Chapman	6, 556	July 27, 1875	1040	320	8	188
Wells, Method of increasing the capacity of oil	E. A. L. Roberts	6, 258	Jan. 26, 1871	883	287	7	168
Windlass	J. P. Manton	6, 774	Nov. 30, 1875	1324	418	8	942
Windmill	J. K. Babcock	6, 743	Nov. 16, 1875	820	258	8	857
Windmill	J. Hall	6, 681	Oct. 5, 1875	225	73	8	596
Wire-cloth, Machine for painting	C. H. Waters	6, 625	Aug. 31, 1875	1175	370	8	398
Wire-cloth, Painting	C. H. Waters	6, 626	Aug. 31, 1875	1176	370	8	398
Wood-splitting machine	J. A. Conover	6, 541	July 13, 1875	515	157	8	88
Wooden boxes, Machine for cutting the heads and bottoms of	E. Hersey	6, 367	Apr. 6, 1875	235	78	7	602
Work-table, Lady's	C. R. Snyder	6, 475	June 1, 1875	220	77	7	960
Wringer	J. Brinkerhoff	6, 816	Dec. 21, 1875	789	261	8	1071
Wringing-machine	J. Allender	6, 288	Feb. 9, 1875	481	161	7	260
Wringing-machine	J. Allender	6, 289	Feb. 9, 1875	482	161	7	260
Y.							
Yoke attachment, Neck	B. Foltz	6, 366	Apr. 6, 1875	234	78	7	602

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C.					
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Carriage-work, Collar for ornamental	M. Seward	31, 330	Feb. 5, 1861	7	303
Coal-breaking machine	R. A. Wilder	31, 502	Feb. 19, 1861	7	386
Cotton-bales, Iron tie for	J. J. McComb	31, 252	Jan. 29, 1861	7	303
Cultivator	D. S. Stafford	31, 133	Jan. 15, 1861	7	180
Curry-comb	S. J. Wheeler	39, 199	Jan. 22, 1861	7	222
D.					
Dough-mixing machine.....	W. Hotine	31, 082	Jan. 8, 1861	7	180
F.					
Felly-machine.....	C. H. Denison	31, 443	Feb. 19, 1861	7	515
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G.					
Gas-regulator	C. L. Herring	31, 168	Jan. 22, 1861	7	222
H.					
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Hoe-blanks, Manufacture of	N. Brand	31, 525	Feb. 26, 1861	7	515
Hoisting apparatus	E. G. Otis	31, 128	Jan. 15, 1861	7	180
Hoisting apparatus	E. G. Otis	31, 128	Jan. 15, 1861	7	180
Hoisting apparatus	E. G. Otis	31, 128	Jan. 15, 1861	7	180
Hot-air pipes, Evaporator for	G. F. J. Colburn.....	31, 152	Jan. 22, 1861	7	222
I.					
Iron bars and rods, Polishing	B. Lauth	31, 546	Feb. 26, 1861	7	515
L.					
Lamp..... (Reissue 1,735) ..	C. A. Cahoon.....	31, 511	Feb. 19, 1861	7	387
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N.					
Needle	G. Cooper	31, 153	Jan. 22, 1861	7	222
P.					
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Paper-folding machine with printing-presses, Combined... (Reissue 3,786.)	W. H. and J. Milliken.....	31, 578	Feb. 26, 1861	7	515
Planter, Corn	F. B. Preston.....	31, 579	Feb. 26, 1861	7	515
Plow	W. Jarrall	31, 172	Jan. 22, 1861	7	222
Pottery, Molding	W. Linton	31, 394	Feb. 12, 1861	7	386
S.					
Sausage-stuffer	A. Nettinger.....	31, 030	Jan. 1, 1861	7	180
Scale-beam	A. B. Davis	31, 534	Feb. 26, 1861	7	515
Sewing-machine	L. W. Langdon	31, 211	Jan. 22, 1861	7	222
Sewing-machine	Q. Rice	31, 214	Jan. 22, 1861	7	222
Sewing machines, Mechanism for boot and shoe... (Reissue 2,906) ..	F. D. Ballou	34, 203	Jan. 22, 1861	7	222
Sliver-machine	F. T. Grant	28, 470	May 29, 1860	7	466
Steamboat-staging	A. J. Bell	31, 147	Jan. 22, 1861	7	222
W.					
Weighing apparatus	A. B. Davis	31, 533	Feb. 26, 1861	7	515

ALPHABETICAL LIST OF DISCLAIMERS.

Invention or discovery.	Name of patentee.	Original No.	Original date.	Disclaimer filed.	Official Gazette.	
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C.						
Column, Wrought-iron	J. B. Cornell	159,305	Feb. 2, 1875	Apr. 8, 1875	7	564
Cultivator.....(Reissued April 7, 1874, No. 5,827) ..	D. S. Stafford.....	31,133	Jan. 15, 1861	Jan. 14, 1875	7	180
H.						
Harvester.....(Reissued August 3, 1869, No. 3,580) ..	J. P. Manny.....	17,798	July 4, 1857	Apr. 10, 1875	7	564
L.						
Lathing, Metallic. (Reissued October 5, 1869, No. 3,661.)	I. V. Holmes	86,306	Jan. 26, 1869	July 6, 1875	8	148
Limekiln (Reissued May 19, 1863, No. 1,476) ..	R. Donaldson	31,445	Feb. 19, 1861	Feb. 18, 1875	7	387
N.						
Needle..... (Reissued April 30, 1872, No. 4,884) ..	G. Cooper	31,153	Jan. 22, 1861	Jan. 16, 1875	7	222
P.						
Paper-folding machine ... (Reissued January 4, 1870, No. 3,785.)	W. H. and J. Milliken	31,578	Feb. 26, 1861	Feb. 19, 1875	7	515
Pavement, Concrete (Reissued May 2, 1871, No. 4,364.)	J. J. Shillinger	105,599	July 19, 1870	Mar. 1, 1875	7	387
Preserving fruit	D. M. Mefford	82,429	Sept. 22, 1868	Feb. 25, 1875	7	610
S.						
Sewing-machines, Mechanism for boot and shoe (Reissued March 31, 1868, No. 2,906.)	F. D. Ballou.....	34,203	Jan. 22, 1861	Jan. 12, 1875	7	222
T.						
Tremolo-attachment. (Reissued May 18, 1869, No. 3,444; again reissued October 5, 1869, No. 3,665.)	R. W. Carpenter	48,366	June 27, 1865	June 19, 1875	8	148
W.						
Window-screen. (Reissued January 2, 1872, No. 4,698.)	A. B. Magoun	52,726	Feb. 20, 1866	Aug. 13, 1875	8	194

ALPHABETICAL LIST OF TRADE-MARKS.

Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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A.					
Acid, Carbolic.....	C. Lowe and J. Gill.....	2,764	July 20, 1875	8	96
Acid, Salicylic.....	S. W. Canfield.....	2,826	Aug. 17, 1875	8	281
Agricultural forks.....	F. P. Shumway.....	2,692	June 22, 1875	7	1037
Agricultural implements.....	G. W. and M. Strouse.....	2,699	July 6, 1875	8	4
Album, Photographic.....	W. Mayer.....	2,783	July 20, 1875	8	96
Alcohol.....	C. H. Graves.....	2,422	May 4, 1875	7	74
Ale, porter, and beer.....	Kohle & Gerken.....	2,619	June 1, 1875	7	92
Alloys and articles made therefrom, Metallic.....	C. J. A. Dick.....	3,002	Oct. 5, 1875	8	56
Alpaca.....	Farr Alpaca Company.....	2,281	Mar. 9, 1875	7	287
Anisette.....	G. W. Dunbar & Sons.....	2,704	July 6, 1875	8	4
Anisette.....	G. W. Dunbar & Sons.....	2,705	July 6, 1875	8	4
Atomizers.....	Young, Ladd & Coffin.....	2,337	Mar. 30, 1875	7	516
Atomizers for perfuming, &c.....	T. J. Holmes.....	2,710	July 6, 1875	8	4
Ax.....	R. Patrick & Co.....	2,285	Mar. 9, 1875	7	387
Axes, &c.....	Douglas Ax Manufacturing Company.....	2,851	Aug. 24, 1875	8	323
Axes, &c.....	Douglas Ax Manufacturing Company.....	2,852	Aug. 24, 1875	8	323
Axes.....	Kloman, Park & Co.....	2,763	July 20, 1875	8	96
Axes.....	J. F. Mann.....	2,961	Sept. 21, 1875	8	476
Axle-grease.....	S. Cupples & Co.....	3,152	Nov. 23, 1875	8	862
Axle-grease.....	W. A. Juvenal.....	3,243	Dec. 14, 1875	8	988
Axle-grease.....	G. B. Swift & Co.....	3,072	Oct. 19, 1875	8	646
B.					
Baking-powder.....	Amazon Baking Powder Company.....	3,078	Oct. 19, 1875	8	646
Baking-powder.....	Atkins & Ladd.....	2,456	May 11, 1875	7	73
Baking-powder.....	Clark & Huntington.....	2,836	Aug. 24, 1875	8	323
Baking-powder.....	Drisler, Furman & Alexander.....	2,560	May 18, 1875	7	838
Baking-powder.....	G. F. Gantz.....	2,340	Apr. 6, 1875	7	564
Baking-powder.....	Hamilton & Co.....	2,160	Jan. 12, 1875	7	48
Baking-powder.....	Jewett, Shearman & Co.....	2,309	Mar. 23, 1875	7	466
Baking-powder.....	E. Plumb, Sons & Co.....	2,251	Feb. 23, 1875	7	303
Baking-powder.....	Stockdale, Smith & Co.....	2,499	May 11, 1875	7	784
Baking-powder.....	G. H. Vickery.....	2,806	Aug. 3, 1875	8	195
Bar-iron, shafting, &c.....	Pratt & Co.....	2,649	June 8, 1875	7	968
Base-balls.....	Peck & Snyder.....	2,769	July 20, 1875	8	96
Bathing-powder.....	F. Ranchfuss.....	2,246	Feb. 16, 1875	7	261
Bathing-suits.....	A. J. Tripler.....	3,171	Nov. 23, 1875	8	863
Bearings, Anti-friction metal and journal.....	I. X. L. Metal Company.....	2,480	May 11, 1875	7	784
Bearings, Machinery.....	L. W. Lathrop.....	2,930	Sept. 14, 1875	8	439
Bed, Cottage spring.....	Tucker Manufacturing Company.....	2,652	June 8, 1875	7	968
Bed, Spring.....	Tucker Manufacturing Company.....	2,195	Jan. 26, 1875	7	133
Beds, Spring.....	W. Lathers.....	2,345	Apr. 6, 1875	7	564
Beef and beef tongues, Prepared.....	Whitney & Co.....	2,318	Mar. 23, 1875	7	466
Beer.....	B. Bates.....	2,785	July 27, 1875	8	149
Beer.....	B. Bates.....	2,786	July 27, 1875	8	149
Beer.....	B. Bates.....	2,859	Aug. 31, 1875	8	34
Beer, Lager.....	J. E. Kubely.....	2,620	June 1, 1875	7	96
Beer, Pop.....	C. C. Haley & Co.....	3,109	Nov. 2, 1875	8	729
Beer, Tonic.....	B. Bates.....	2,787	July 27, 1875	8	149
Beer, white beer, ale, &c., Lager.....	J. E. Kubely.....	3,040	Oct. 19, 1875	8	645
Bells.....	E. A. & G. R. Meneely.....	2,717	July 6, 1875	8	4
Bevel and try-square.....	St. Johnsbury Tool Company.....	3,038	Oct. 11, 1875	8	601
Beverages.....	E. J. Williamson.....	2,832	Aug. 17, 1875	8	281
Billiard-cue rack.....	J. M. Brunswick and Blake Company.....	3,073	Oct. 19, 1875	8	646
Billiard-tables.....	H. W. Collender.....	3,079	Oct. 19, 1875	8	646
Blacking.....	J. Andrews.....	2,601	June 1, 1875	7	926
Blasting-powder.....	J. R. Rand & Co.....	3,139	Nov. 16, 1875	8	819
Blasting squibs and fuses.....	S. H. Daddow.....	2,465	May 11, 1875	7	783
Blue, Ultramarine.....	Heller & Merz.....	2,801	Aug. 3, 1875	8	194
Blue, Wash.....	Heller & Merz.....	2,800	Aug. 3, 1875	8	194
Blue, Washing.....	Eastman & Brooks.....	2,909	Sept. 7, 1875	8	403
Blue, Washing.....	C. H. Fischer & Co.....	2,989	Sept. 28, 1875	8	521
Blue, Washing.....	S. S. Myers.....	2,250	Feb. 23, 1875	7	303
Bolting-cloths.....	Huntley, Holcombe & Heine.....	2,615	June 1, 1875	7	926
Bonnets and other head-wear for women and children.....	S. C. Talcott.....	2,271	Mar. 2, 1875	7	345
Books.....	Fralick & Meese.....	3,107	Nov. 2, 1875	8	729
Boots.....	S. R. Heywood & Co.....	3,163	Nov. 23, 1875	8	862
Boots.....	J. H. Walker.....	2,541	May 18, 1875	7	838
Boots and shoes.....	Graff, Watkin & Co.....	2,331	Mar. 30, 1875	7	516
Boots and shoes.....	C. H. Howard.....	3,088	Oct. 26, 1875	8	689
Boots and shoes.....	C. W. Mundell.....	2,536	May 18, 1875	7	838
Boots and shoes.....	P. Ware, jr., & Co.....	3,144	Nov. 16, 1875	8	820
Boots and shoes, Rubber.....	L. Candee & Co.....	3,130	Nov. 16, 1875	8	819
Boots and shoes, Rubber.....	National Rubber Company.....	2,648	June 8, 1875	7	968
Boots and shoes, Rubber.....	National Rubber Company.....	2,881	Aug. 31, 1875	8	365
Boots and shoes, Rubber.....	National Rubber Company.....	2,882	Aug. 31, 1875	8	365
Boots and shoes, Rubber.....	National Rubber Company.....	2,883	Aug. 31, 1875	8	365
Boots and shoes, Rubber.....	National Rubber Company.....	2,884	Aug. 31, 1875	8	365
Bottle, Nursing.....	M. S. Burr & Co.....	2,164	Jan. 12, 1875	7	48
Bottles.....	A. Koch.....	3,177	Nov. 30, 1875	8	909
Brackets, children's savings-banks, &c.....	T. Crommelin.....	2,862	Aug. 31, 1875	8	364
Braid, Worsted.....	H. N. Daggett.....	2,192	Jan. 26, 1875	7	133
Braids.....	Flues, Spielmann & Wolff.....	2,751	July 20, 1875	8	95

Alphabetical list of trade-marks—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Braids, Silk, worsted, linen, and cotton	A. Moll	2,647	June 8, 1875	7	968
Brandy	Ives, Beecher & Co.	2,684	June 15, 1875	7	1014
Brandy	V. Planat & Co.	2,976	Sept. 21, 1875	8	476
Brass, German silver, &c	Brown & Brothers	2,950	Sept. 21, 1875	8	475
Bread, biscuits, crackers, and cakes	J. D. Mason & Co.	3,259	Dec. 21, 1875	8	1034
Bread-raising material	Rumford Chemical Works	2,922	Sept. 7, 1875	8	404
Brick, Fire	Harrison & Walker	2,307	Mar. 23, 1875	7	466
Brick, Fire	Harrison & Walker	2,308	Mar. 23, 1875	7	466
Brick, tiles, &c., Fire	McConnell, Porter & Co.	2,586	May 25, 1875	7	880
Bronze alloy and articles made therefrom	C. J. A. Dick	2,777	July 20, 1875	8	96
Broom and tool holder	H. Carsley	2,791	July 27, 1875	8	149
Buckles, Trace	H. S. Woodruff & Co.	3,123	Nov. 2, 1875	8	730
Butter	W. Jex & Co.	3,014	Oct. 5, 1875	8	561
Buttons	A. B. Lewis	3,244	Dec. 14, 1875	8	988
Buttons	A. and E. Wallach	3,099	Oct. 26, 1875	8	689
C.					
Cakes, crackers, and biscuits	D. B. Fuller & Co.	2,475	May 11, 1875	7	784
Cakes, crackers, and biscuits	W. G. Wilson & Co.	3,039	Oct. 11, 1875	8	601
Calendars and almanacs	C. E. Wemple & Co.	2,654	June 8, 1875	7	968
Candle	C. Harkness	2,810	Aug. 3, 1875	8	195
Candles and toys, Christmas	A. Weidman & Co.	3,054	Oct. 19, 1875	8	646
Canned fruits and vegetables	Griffith & Drakeley	3,031	Oct. 11, 1875	8	601
Canned goods	Kemp, Day & Co.	2,481	May 11, 1875	7	784
Canned goods	J. G. Kraft & Co.	3,136	Nov. 16, 1875	8	819
Canned goods, Hermetically-sealed	I. B. Brinkley	2,812	Aug. 10, 1875	8	241
Canned goods, Hermetically-sealed	C. G. Summers & Co.	2,822	Aug. 10, 1875	8	241
Canned lobsters	Kimball & Jewett	3,112	Nov. 2, 1875	8	729
Canned oysters	S. C. Johnson	3,176	Nov. 30, 1875	8	909
Canned oysters and fruits	W. R. Barnes & Co.	2,656	June 8, 1875	7	969
Canned oysters, fruits, &c	Pick & Chase	3,175	Nov. 30, 1875	8	909
Canned plum pudding	Atmore & Son	2,734	July 13, 1875	8	49
Card, Playing	V. E. Magure	2,156	Jan. 5, 1875	7	6
Cards, Playing	I. Levy	3,269	Dec. 21, 1875	8	1034
Cards, Playing	I. Levy	3,270	Dec. 21, 1875	8	1035
Cards, Playing	W. F. Miller and F. D. Montgomery	2,767	July 20, 1875	8	96
Carpet-lining and stair-pad	G. W. Chipman & Co.	2,280	Mar. 9, 1875	7	387
Carpet-warps	H. E. Vogell	2,173	Jan. 19, 1875	7	93
Carpets	W. H. Hankinson	2,957	Sept. 21, 1875	8	476
Carpets	A. T. Stewart & Co.	3,122	Nov. 2, 1875	8	730
Cassimeres, &c.	New England Company	2,718	July 6, 1875	8	4
Caviar	M. Ams	3,028	Oct. 11, 1875	8	601
Cement, Hydraulic	Rock Haven Cement Company	3,202	Dec. 7, 1875	8	946
Champagne	Moëh & Chandon	2,436	May 4, 1875	7	743
Champagne wine	A. J. Cohen	3,009	Oct. 5, 1875	8	561
Champagne wine	F. De Bary & Co.	2,466	May 11, 1875	7	783
Chemical compound	Brower & Co.	2,861	Aug. 31, 1875	8	364
Chemical compound	M. A. Goldstone	2,584	May 25, 1875	7	880
Chicory	Blume & Co.	2,701	July 6, 1875	8	4
Chisels, plane-irons, and other light-edged tools	Buck Brothers	2,602	June 1, 1875	7	936
Churn	W. P. Emmert	2,469	May 11, 1875	7	783
Churns	P. Blanchard's Sons	2,770	July 20, 1875	8	96
Cider-mills	Whitman Agricultural Works	2,336	Mar. 30, 1875	7	516
Cigars	G. Alcés	3,280	Dec. 28, 1875	8	1076
Cigars	C. Beckert	2,938	Sept. 14, 1875	8	439
Cigars	G. H. Bolenius & Co.	3,059	Oct. 19, 1875	8	646
Cigars	C. H. Brennan & Co.	2,197	Feb. 2, 1875	7	181
Cigars	J. B. Cohen	3,126	Nov. 9, 1875	8	777
Cigars	F. De Bary & Co.	2,228	Feb. 16, 1875	7	261
Cigars	F. De Bary & Co.	2,467	May 11, 1875	7	783
Cigars	F. De Bary & Co.	2,580	May 25, 1875	7	880
Cigars	F. De Bary & Co.	2,659	June 8, 1875	7	969
Cigars	F. De Bary & Co.	2,666	June 15, 1875	7	1014
Cigars	F. De Bary & Co.	2,925	Sept. 14, 1875	8	439
Cigars	F. De Bary & Co.	2,926	Sept. 14, 1875	8	439
Cigars	F. Dittmer	2,255	Feb. 2, 1875	7	181
Cigars	Farrington & Schmahl	3,155	Nov. 23, 1875	8	862
Cigars	Farrington & Schmahl	3,156	Nov. 23, 1875	8	862
Cigars	W. P. Farrington	3,227	Dec. 14, 1875	8	988
Cigars	Feldman & Schneerman	2,199	Feb. 2, 1875	7	181
Cigars	A. W. Foot	2,255	Feb. 23, 1875	7	303
Cigars	Foster, Hilson & Co.	2,677	June 15, 1875	7	1014
Cigars	Freedman, Hesslein & Co.	2,151	Jan. 5, 1875	7	6
Cigars	Freedman, Hesslein & Co.	3,157	Nov. 23, 1875	8	862
Cigars	Freedman, Hesslein & Co.	3,158	Nov. 23, 1875	8	862
Cigars	F. Glahn	3,086	Oct. 26, 1875	8	689
Cigars	Goldsmith & Newburgh	2,257	Feb. 23, 1875	7	303
Cigars	F. Haehnel	2,574	May 18, 1875	7	839
Cigars	Harned & Co.	2,290	Mar. 16, 1875	7	427
Cigars	Haworth & Williams	2,562	May 18, 1875	7	838
Cigars, &c.	Heppenheimer & Maurer	2,691	Sept. 28, 1875	8	521
Cigars	S. Jacoby & Co.	2,322	Mar. 30, 1875	7	516
Cigars	S. Jacoby & Co.	2,661	June 8, 1875	7	969
Cigars	S. Jacoby & Co.	2,662	June 8, 1875	7	969
Cigars	Kerbs & Spiess	2,316	Mar. 23, 1875	7	466
Cigars	Kremer Brothers & Co.	3,113	Nov. 2, 1875	8	730
Cigars	P. Kumpf	3,049	Oct. 19, 1875	8	646
Cigars	Lewis Brothers	3,165	Nov. 23, 1875	8	862
Cigars	Lichtenstein Brothers & Co.	2,237	Feb. 16, 1875	7	261
Cigars	Lichtenstein Brothers & Co.	2,792	July 27, 1875	8	149
Cigars	Lichtenstein Brothers & Co.	2,793	July 27, 1875	8	149
Cigars	A. Lichtenstein & Brother	2,686	June 15, 1875	7	1014
Cigars	A. Lichtenstein & Brother	2,687	June 15, 1875	7	1014
Cigars	S. Lowenthal	2,155	Jan. 5, 1875	7	6

Alphabetical list of trade-marks—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Cigars.....	S. Lowenthal & Co.....	2,161	Jan. 12, 1875	7	48
Cigars.....	S. Lowenthal & Co.....	2,249	Feb. 23, 1875	7	303
Cigars.....	Massachusetts Cigar Makers' Co-operative Association.	2,877	Aug. 31, 1875	8	365
Cigars.....	J. F. Miles.....	2,183	Jan. 19, 1875	7	93
Cigars.....	L. C. Pardee.....	3,232	Dec. 14, 1875	8	988
Cigars.....	L. C. Pardee.....	3,273	Dec. 21, 1875	8	1035
Cigars.....	L. C. Pardee.....	3,274	Dec. 21, 1875	8	1035
Cigars.....	P. Pohalski.....	2,494	May 11, 1875	7	784
Cigars.....	Roberts & Fulweiler.....	2,277	Mar. 9, 1875	7	357
Cigars.....	C. C. Saums.....	2,568	May 18, 1875	7	838
Cigars.....	A. Schuneman & Co.....	2,294	Mar. 16, 1875	7	427
Cigars.....	Seidenberg & Co.....	2,208	Feb. 2, 1875	7	181
Cigars.....	J. M. Seip.....	2,241	Feb. 16, 1875	7	261
Cigars.....	M. Stachelberg & Co.....	2,201	Feb. 2, 1875	7	181
Cigars.....	Sullivan & Burk.....	3,128	Nov. 9, 1875	8	777
Cigars.....	H. K. Thurber & Co.....	2,804	Aug. 3, 1875	8	195
Cigars.....	Westfield Cigar-Maker's Co-operative Association.	2,731	July 6, 1875	8	5
Cigars.....	White & Meckracken.....	2,227	Feb. 9, 1875	7	223
Cigars.....	Whitlock & Abrams.....	2,571	May 18, 1875	7	839
Cigars.....	G. Wiener.....	2,217	Feb. 9, 1875	7	223
Cigars and cigarettes.....	G. Solomon.....	2,240	Feb. 16, 1875	7	261
Cigars and tobacco.....	Consolidated Tobacco Company.....	2,209	Feb. 2, 1875	7	181
Cigars and tobacco.....	H. Gaullieur.....	3,108	Nov. 2, 1875	8	729
Cigars and tobacco.....	Holzmann & Deutschberger.....	3,267	Dec. 21, 1875	8	1034
Cigars and tobacco.....	A. Lichtenstein & Brother.....	3,062	Oct. 19, 1875	8	646
Cigars and tobacco.....	A. Lichtenstein & Brother.....	3,063	Oct. 19, 1875	8	646
Cigars and tobacco.....	Lichtenstein Brothers & Co.....	2,794	July 27, 1875	8	149
Cigars and tobacco.....	L. Mohr.....	2,819	Aug. 10, 1875	8	241
Cigars and tobacco.....	J. M. Mora & Co.....	3,034	Oct. 11, 1875	8	601
Cigars and tobacco.....	W. C. Nicholson.....	3,118	Nov. 2, 1875	8	730
Cigars and tobacco.....	W. C. Nicholson.....	3,119	Nov. 2, 1875	8	730
Cigars and tobacco.....	V. N. Ybor & Co.....	3,287	Dec. 22, 1875	8	1077
Cigars and tobacco, Manufactured.....	Jones Brothers & Co.....	3,268	Dec. 21, 1875	8	1034
Cigars, cheroots, and cigarettes.....	F. S. Kinney.....	2,617	June 1, 1875	7	926
Cigars, cheroots, cigarettes, and smoking-tobacco.....	F. S. Kinney.....	2,618	June 1, 1875	7	926
Cigars, cheroots, cigarettes, and smoking-tobacco.....	F. S. Kinney.....	2,645	June 8, 1875	7	968
Cigars, cheroots, cigarettes, and smoking-tobacco.....	F. S. Kinney.....	2,646	June 8, 1875	7	968
Cigars, cheroots, cigarettes, and smoking-tobacco.....	F. S. Kinney.....	2,712	July 6, 1875	8	4
Cigars, cigarettes, smoking and chewing tobacco.....	J. A. Poitiers.....	3,250	Dec. 14, 1875	8	988
Cigars, tobacco, and snuff.....	Batchelor Brothers.....	2,275	Mar. 9, 1875	7	387
Clay pipes.....	Hopkins & Robinson Manufacturing Company.	2,614	June 1, 1875	7	926
Clock-springs.....	W. Barnes.....	2,796	Aug. 3, 1875	8	194
Clocks.....	F. Kroeber.....	2,222	Feb. 16, 1875	7	261
Clocks.....	F. Kroeber.....	2,233	Feb. 16, 1875	7	261
Clocks.....	F. Kroeber.....	2,234	Feb. 16, 1875	7	261
Clocks.....	F. Kroeber.....	2,235	Feb. 16, 1875	7	261
Clocks.....	F. Kroeber.....	2,236	Feb. 16, 1875	7	261
Clocks.....	Southern Calendar-Clock Company.....	3,222	Oct. 11, 1875	8	600
Cloth and farmers' satin, Italian.....	Fleitmann & Co.....	3,265	Dec. 21, 1875	8	1034
Cloth and farmers' satin, Italian.....	Fleitmann & Co.....	3,266	Dec. 21, 1875	8	1034
Cloth, Grey.....	L. Pomeroy's Sons.....	2,355	Apr. 6, 1875	7	561
Cloth or men's wear.....	E. T. Steel & Co.....	2,720	July 6, 1875	8	4
Cloth, Woolen.....	Middlesex Company.....	2,487	May 11, 1875	7	784
Clothes-pins.....	D. Staples and J. S. Brown.....	2,850	Aug. 24, 1875	8	323
Clothes-pins.....	R. Warner & Co.....	3,183	Nov. 30, 1875	8	909
Clothes-wringers.....	Bailey Washing and Wringing Machine Company.	2,575	May 25, 1875	7	879
Clothes-wringers.....	Bailey Washing and Wringing Machine Company.	2,576	May 25, 1875	7	879
Coal.....	Lykens Valley Coal Company.....	2,447	May 4, 1875	7	783
Coal.....	Mineral Railroad and Mining Company.....	2,448	May 4, 1875	7	783
Coal.....	Summit Branch Railroad Company.....	2,449	May 4, 1875	7	783
Coffee.....	Barkley & Hasson.....	2,174	Jan. 19, 1875	7	93
Coffee.....	Barkley & Hasson.....	2,175	Jan. 19, 1875	7	93
Coffee.....	D. Focht & Co.....	2,434	May 4, 1875	7	743
Coffee.....	Gillespie, Zeller & Co.....	2,667	June 15, 1875	7	1014
Coffee.....	J. W. Hamblet.....	2,476	May 11, 1875	7	784
Coffee and ground spices, Roasted and ground.....	Coyle, Laughlin & Co.....	2,735	July 13, 1875	8	49
Coffee and tea making utensils.....	N. S. McFarland.....	3,006	Oct. 5, 1875	8	561
Coffee, Roasted.....	G. Boyd & Co.....	2,432	May 4, 1875	7	743
Coffee, Roasted.....	Zoller & Little.....	2,451	May 4, 1875	7	783
Coffee, Roasted.....	Zoller & Little.....	2,452	May 4, 1875	7	783
Coffee, spices, and mustard.....	Janney & Andrews.....	2,846	Aug. 24, 1875	8	323
Coffee, spices, baking-powder, &c.....	E. H. Garbutt & Co.....	2,582	May 25, 1875	7	880
Coffee, spices, mustard, &c.....	J. M. Earle.....	2,330	Mar. 30, 1875	7	516
Coffees, teas, and spices.....	D. Focht & Co.....	2,401	Apr. 20, 1875	7	652
Collars and cuffs.....	Medbery & Mann.....	2,622	June 1, 1875	7	926
Collars and cuffs.....	Medbery & Mann.....	2,623	June 1, 1875	7	926
Collars and cuffs, Ladies' and gentlemen's.....	Pine, Miller & Dunham.....	2,493	May 11, 1875	7	784
Collars, Cloth-faced or paper.....	Medbery & Mann.....	2,348	Apr. 6, 1875	7	564
Cologne.....	G. C. Goodwin & Co.....	2,754	July 20, 1875	8	95
Combs.....	B. F. Britton.....	2,905	Sept. 7, 1875	8	403
Combs.....	B. F. Britton.....	2,920	Sept. 7, 1875	8	404
Combs.....	India Rubber Comb Company.....	2,923	Sept. 14, 1875	8	439
Combs.....	Thomson, Langdon & Co.....	3,026	Oct. 11, 1875	8	600
Combs, druggists' articles, &c., Rubber.....	India Rubber Comb Company.....	3,096	Oct. 26, 1875	8	689
Combs, druggists' articles, &c., Rubber.....	India Rubber Comb Company.....	3,169	Nov. 23, 1875	8	863
Combs, India-rubber.....	India Rubber Comb Company.....	3,170	Nov. 23, 1875	8	863
Confectionery.....	S. F. Whitman & Son.....	3,876	Oct. 19, 1875	8	646
Coolers and refrigerators.....	E. K. Howes.....	3,005	Oct. 5, 1875	8	561
Cordials, sirups, and preserves.....	G. W. Dunbar & Sons.....	2,691	June 22, 1875	7	1057
Cords, fringes, ribbons, &c.....	Silbermann, Heinemann & Co.....	2,997	Sept. 28, 1875	8	521

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Corn and wheat mill.....	H. D. Coleman	2,750	July 20, 1875	8	95
Corn, Evaporated sugar	T. Roberts & Co	2,986	Sept. 21, 1875	8	476
Corset-clasp	Cooley, Bigelow & Nichols	3,194	Dec. 7, 1875	8	946
Corset-steels	Lessey & Young	2,370	Apr. 13, 1875	7	610
Corsets	M. K. Bortree & Co	2,987	Sept. 28, 1875	8	521
Corsets	S. Kleinberger	2,409	Apr. 20, 1875	7	652
Corsets	Ottenheimer, Rothschild & Co.	2,589	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,590	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,591	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,592	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,593	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,594	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,595	May 25, 1875	7	880
Corsets	Ottenheimer, Rothschild & Co.	2,596	May 25, 1875	7	880
Corsets	United States Corset Company	2,377	Apr. 13, 1875	7	610
Corsets	United States Corset Company	2,378	Apr. 13, 1875	7	610
Corsets	United States Corset Company	2,633	June 1, 1875	7	927
Corsets	United States Corset Company	2,653	June 8, 1875	7	968
Cosmetic	A. Deland	2,254	Feb. 23, 1875	7	303
Cotton and woolen fabrics	Hamilton Woolen Company	2,477	May 11, 1875	7	784
Cotton and woolen fabrics	Hamilton Woolen Company	2,478	May 11, 1875	7	784
Cotton cassimere	Bliss & Allen	2,204	Feb. 2, 1875	7	181
Cotton fabrics	Greenville Manufacturing Company	2,921	Sept. 7, 1875	8	404
Cotton fabrics	Pingree, Woods & Clark	3,260	Dec. 7, 1875	8	946
Cotton fabrics, Woven	Minot, Hooper & Co	2,784	July 20, 1875	8	96
Cotton fabrics, Woven	Minot, Hooper & Co	2,878	Aug. 31, 1875	8	365
Cotton fabrics, Woven	Minot, Hooper & Co	2,879	Aug. 31, 1875	8	365
Cotton fabrics, Woven	Minot, Hooper & Co	2,880	Aug. 31, 1875	8	365
Cotton flannel	Tremont and Suffolk Mills	2,725	July 6, 1875	8	5
Cotton jean	Naumkeag Steam Cotton Company	2,188	Jan. 26, 1875	7	133
Cotton-press	T. C. Nisbet	2,260	Feb. 23, 1875	7	303
Cotton print	Hamilton Woolen Company	2,332	Mar. 30, 1875	7	516
Cotton print	Hamilton Woolen Company	2,757	July 20, 1875	8	96
Cotton sheetings and shirtings	Monohansett Manufacturing Company	2,351	Apr. 6, 1875	7	564
Cotton, woolen, and other fabrics	Hamilton Woolen Company	2,548	May 18, 1875	7	837
Cotton-working machine	R. H. Allen & Co	2,267	Mar. 2, 1875	7	345
Cottonades, &c	A. B. Taylor	3,101	Oct. 26, 1875	8	689
Crackers, biscuits, cakes, &c	D. Carrick & Co	2,603	June 1, 1875	7	926
Crayons and pencils	French Chalk, Crayon, and Pencil Com- pany	3,271	Dec. 21, 1875	8	1035
Cream of tartar	Packard & James	2,968	Sept. 21, 1875	8	476
Cream of tartar	Packard & James	2,969	Sept. 21, 1875	8	476
Cream of tartar	Packard & James	2,970	Sept. 21, 1875	8	476
Cream of tartar	Packard & James	2,971	Sept. 21, 1875	8	476
Cream of tartar	Packard & James	3,180	Nov. 30, 1875	8	909
Curtain-fixture	S. S. Putnam	2,781	July 20, 1875	8	96
Cutlery	W. Brokhahne	2,379	Apr. 13, 1875	7	611
Cutlery and surgical instruments	W. Clauberg	2,703	July 6, 1875	8	4
D.					
Dental purposes, Stopping for	I. Cole	2,464	May 11, 1875	7	783
Dentifrices	C. Bullock	2,313	Mar. 23, 1875	7	466
Deviled entremet	W. Underwood & Co	2,297	Mar. 16, 1875	7	427
Distilled spirits	Freiberg & Workum	2,402	Apr. 20, 1875	7	652
Dress and other dry goods	A. Person, Harriman & Co	2,972	Sept. 21, 1875	8	476
Dress and other dry goods	A. Person, Harriman & Co	2,973	Sept. 21, 1875	8	476
Dress and other dry goods	A. Person, Harriman & Co	2,974	Sept. 21, 1875	8	476
Dress and other dry goods	A. Person, Harriman & Co	2,975	Sept. 21, 1875	8	476
Dress-shields	H. D. & R. Lockwood	2,485	May 11, 1875	7	784
Dresses and under-garments, Ladies' and children's	H. S. Hutchinson	2,644	June 8, 1875	7	968
Drug	E. Fougere & Co	2,186	Jan. 26, 1875	7	133
Druggists' preparations	J. Gilbert & Co	3,242	Dec. 14, 1875	8	988
Dry goods	Wechsler, Abraham & Co	3,018	Oct. 5, 1875	8	561
Dry goods, Fancy and other	E. Flaxland & Co	2,221	Feb. 9, 1875	7	223
Dry goods, Fancy and other	E. Flaxland & Co	2,222	Feb. 9, 1875	7	223
Dryers, drying-oils, and varnishes	Walter & Fielding	2,983	Sept. 21, 1875	8	476
Dyeing chemical	Weeks & Dufee	2,301	Mar. 16, 1875	7	427
E.					
Electro-voltaic band	Volta Belt Company	2,728	July 6, 1875	8	5
Eraser, Rubber	E. Faber	3,133	Nov. 16, 1875	8	819
Eraser, Rubber	R. Lockwood	2,874	Aug. 31, 1875	8	865
F.					
Fans	M. Gillet & Co	2,840	Aug. 24, 1875	8	323
Fans	M. Gillet & Co	2,841	Aug. 24, 1875	8	323
Fans	M. Gillet & Co	2,842	Aug. 24, 1875	8	323
Fans	M. Gillet & Co	2,843	Aug. 24, 1875	8	323
Fans	M. Gillet & Co	2,844	Aug. 25, 1875	8	323
Fans	Hecht Brothers	2,640	June 8, 1875	7	968
Fans	Hecht Brothers	2,641	June 8, 1875	7	968
Fans	Hecht Brothers	2,642	June 8, 1875	7	968
Fans	Hecht Brothers	2,643	June 8, 1875	7	968
Fans	S. C. Talcott	2,272	Mar. 2, 1875	7	345
Fans	A. A. Valentine & Co	2,673	June 15, 1875	7	1014
Fertilizer	J. J. Allen's Sons	2,454	May 11, 1875	7	783
Fertilizer	J. J. Allen's Sons	2,455	May 11, 1875	7	783
Fertilizer	Atlantic and Virginia Fertilizing Com- pany	2,948	Sept. 21, 1875	8	475
Fertilizer	Atlantic and Virginia Fertilizing Com- pany	3,084	Oct. 26, 1875	8	689
Fertilizer	Burkholder & Wilson	3,281	Dec. 28, 1875	8	1076

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Fertilizer.....	L. L. Crocker	2,906	Sept. 7, 1875	8	403
Fertilizer.....	Dugdale & Girvin	2,807	Aug. 3, 1875	8	195
Fertilizer.....	Dugdale & Girvin	2,808	Aug. 3, 1875	8	195
Fertilizer.....	J. Horner, jr.	2,711	July 6, 1875	8	4
Fertilizer.....	Manufacturers' Combination.....	2,985	Sept. 21, 1875	8	476
Fertilizer.....	Manufacturers' Combination.....	3,019	Oct. 11, 1875	8	600
Fertilizer.....	Patapsco Guano Company	2,284	Mar. 9, 1875	7	387
Fertilizer.....	Patapsco Guano Company	2,300	Mar. 16, 1875	7	427
Fertilizer.....	C. Perry	3,181	Nov. 30, 1875	8	909
Fertilizer.....	Ralston & Kirke	3,234	Dec. 14, 1875	8	988
Fertilizer.....	J. J. Turner & Co.	2,509	May 11, 1875	7	784
Fertilizer.....	Walton, Whann & Co.	2,242	Feb. 16, 1875	7	261
Fertilizer.....	Walton, Whann & Co.	2,729	July 6, 1875	8	5
Fertilizer.....	Walton, Whann & Co.	2,730	July 6, 1875	8	5
Fertilizer.....	Walton, Whann & Co.	3,240	Dec. 14, 1875	8	988
Fertilizer, Commercial.....	H. M. Hooper	2,276	Mar. 9, 1875	7	387
Fertilizer, Commercial.....	Walton, Whann & Co.	2,695	June 22, 1875	7	1057
Fertilizing material.....	C. O. Root	2,497	May 11, 1875	7	784
Fever and ague pad.....	W. F. Kidder	3,033	Oct. 11, 1875	8	601
Files, Self-indexing.....	W. A. Amberg	2,946	Sept. 21, 1875	8	475
Files, Self-indexing.....	W. A. Amberg	2,947	Sept. 21, 1875	8	475
Finger-ring.....	H. Muhr's Sons	3,089	Oct. 26, 1875	8	689
Fire-kindler and prepared fuel.....	J. D. Husbands, jr.	2,181	Jan. 19, 1875	7	93
Fish.....	F. Snow & Co.	3,021	Oct. 11, 1875	8	600
Fish, Preserved.....	Eagle Preserved Fish Company.....	2,410	Apr. 20, 1875	7	652
Fish, Preserved.....	I. C. Mayo	2,486	May 11, 1875	7	784
Flannels and cottonades.....	Porter & Dickey.....	3,166	Nov. 23, 1875	8	863
Floor-cloths and similar fabrics.....	F. Walton	2,335	Mar. 30, 1875	7	516
Flour.....	M. R. Bortree & Co.	2,674	June 15, 1875	7	1014
Flour.....	L. Day & Co.	2,604	June 1, 1875	7	926
Flour.....	L. Day & Co.	2,605	June 1, 1875	7	926
Flour.....	L. Day & Co.	2,606	June 1, 1875	7	926
Flour.....	Day, Rollins & Co.	2,607	June 1, 1875	7	926
Flour.....	Day, Rollins & Co.	2,608	June 1, 1875	7	926
Flour.....	Day, Rollins & Co.	2,609	June 1, 1875	7	926
Flour.....	Day, Rollins & Co.	2,610	June 1, 1875	7	926
Flour.....	Empire Mill Company	2,891	Aug. 31, 1875	8	365
Flour.....	Empire Mill Company	3,235	Dec. 14, 1875	8	988
Flour.....	W. M. Galt.....	2,829	Aug. 17, 1875	8	281
Flour.....	Halliday Brothers	3,160	Nov. 23, 1875	8	862
Flour.....	Halliday Brothers	3,161	Nov. 23, 1875	8	862
Flour.....	Halliday Brothers	3,162	Nov. 23, 1875	8	862
Flour.....	Imbs, Meyer & Co.	2,869	Aug. 31, 1875	8	365
Flour.....	F. W. Jenkins & Bro.	2,870	Aug. 31, 1875	8	365
Flour.....	F. W. Jenkins & Bro.	2,871	Aug. 31, 1875	8	365
Flour.....	T. C. Jenkins	2,292	Mar. 16, 1875	7	427
Flour.....	T. C. Jenkins	2,872	Aug. 31, 1875	8	865
Flour.....	C. A. Pillsbury	2,940	Sept. 14, 1875	8	439
Flour.....	Shaw, Hammond & Carney	3,204	Dec. 7, 1875	8	946
Flour.....	T. G. Stewart & Co.	3,207	Dec. 7, 1875	8	946
Flour.....	T. G. Stewart & Co.	3,208	Dec. 7, 1875	8	946
Flour.....	G. Swigart	2,887	Aug. 31, 1875	8	365
Flour.....	A. A. Tayler	2,325	Mar. 30, 1875	7	516
Flour.....	G. C. Thilenius	3,236	Dec. 14, 1875	8	988
Flour.....	G. C. Thilenius	3,237	Dec. 14, 1875	8	988
Flour, Corn.....	Glen Cove Starch Manufacturing Com- pany.....	2,639	June 8, 1875	7	968
Flour, Corn.....	Glen Cove Starch Manufacturing Com- pany.....	2,939	Sept. 14, 1875	8	439
Flour, Preparation of corn.....	Glen Cove Starch Manufacturing Com- pany.....	2,404	Apr. 20, 1875	7	652
Fluid, Burning.....	B. A. Rose	2,298	Mar. 16, 1875	7	427
Fluting-machine.....	C. Felder	2,954	Sept. 21, 1875	8	476
Fly and grasshopper exterminator, Plant.....	G. W. Powell.....	3,068	Oct. 19, 1875	8	646
Fly-catcher.....	C. F. Burks	2,702	July 6, 1875	8	4
Food for children.....	C. Mayne	3,246	Dec. 14, 1875	8	988
Food for children.....	C. Mayne	3,247	Dec. 14, 1875	8	988
Food for children.....	C. Mayne	3,247	Dec. 14, 1875	8	988
Food for horses and cattle.....	G. Gordon	3,030	Oct. 11, 1875	8	601
Food for poultry, Egg-producing.....	L. H. Sherwood & Co.	2,270	Mar. 2, 1875	7	345
Food made from wheat.....	E. R. Durkee & Co.	2,263	Mar. 2, 1875	7	345
Fringes, ribbons, and trimmings.....	Silbermann, Heinemann & Co.	2,849	Aug. 24, 1875	8	323
Fruit-butter.....	J. O. Schimmel & Co.	3,100	Oct. 26, 1875	8	689
Furniture-polish.....	A. B. Dumm	3,173	Nov. 30, 1875	8	909
G.					
Garments, Filet under.....	C. Mez & Sons	2,565	May 18, 1875	7	838
Gimlet.....	E. A. Goddard	2,753	July 20, 1875	8	95
Gin.....	Adams & Taylor.....	2,413	May 4, 1875	7	742
Gin.....	Adams & Taylor.....	3,415	May 4, 1875	7	742
Gin.....	Adams & Taylor.....	2,453	May 11, 1875	7	783
Gin.....	Adams, Blake & Taylor.....	2,417	May 4, 1875	7	742
Gin.....	Gill & Lootz	2,583	May 25, 1875	7	80
Gin.....	Leszynsky & Troup	2,960	Sept. 21, 1875	8	476
Gin.....	A. E. Masters, jr.	3,117	Nov. 2, 1875	8	730
Gin.....	M. E. Osborn & Co.	2,670	June 15, 1875	7	1014
Gin.....	I. D. Richards & Sons	2,498	May 11, 1875	7	784
Gin.....	I. D. Richards & Sons	2,719	July 6, 1875	8	4
Gin.....	I. D. Richards & Sons	2,782	July 20, 1875	8	96
Gin.....	T. L. Smith	2,693	June 22, 1875	7	1057
Gin, Holland.....	C. A. Hubbard	2,282	Mar. 9, 1875	7	387
Gin, Schiedam.....	G. Whiteley	3,027	Oct. 11, 1875	8	601
Glass, Silvered.....	D. Durand	3,042	Oct. 19, 1875	8	645
Gloves.....	M. Beeber & Co.	3,253	Dec. 21, 1875	8	1034

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Gloves	P. Healey	3, 110	Nov. 2, 1875	8	729
Gloves	E. Jonnainux & Co.	2, 817	Aug. 10, 1875	8	241
Gloves	Wertheimer & Co.	2, 898	Aug. 31, 1875	8	365
Gloves, embroideries, and ribbons	Passavant & Co.	2, 407	Apr. 20, 1875	7	652
Gloves, Kid	Harris Brothers	2, 214	Feb. 9, 1875	7	223
Gloves, Kid	R. H. White & Co.	3, 145	Nov. 16, 1875	8	820
Gloves, Kid	R. H. White & Co.	3, 146	Nov. 16, 1875	8	820
Gloves, Kid or lambskin	Harris Brothers	2, 269	Mar. 2, 1875	7	345
Glue, gelatine, and sizing	Baeder, Adamson & Co.	3, 223	Dec. 14, 1875	8	988
Grain-separators	O. K. Wood & Co.	3, 187	Nov. 30, 1875	8	909
Grain-separators	O. K. Wood & Co.	3, 188	Nov. 30, 1875	8	909
Grates	F. S. Bissel	2, 657	June 8, 1875	7	969
Grinding mill, Fruit, &c.	Higginum Manufacturing Company	2, 274	Mar. 2, 1875	7	345
Gun, Double-barrel breech-loading	B. Kittredge & Co.	2, 762	July 20, 1875	8	96
Gunpowder	Miami Powder Company	2, 540	May 18, 1875	7	838
H.					
Hair-dressing preparation	W. N. Hedges & Co.	3, 046	Oct. 19, 1875	8	646
Hair-producer	H. A. Moore	3, 261	Dec. 21, 1875	8	1034
Hams, &c.	Evans Brothers	2, 305	Mar. 23, 1875	7	466
Hams	Evans, Lippencott & Cunningham	2, 470	May 11, 1875	7	783
Hams	C. D. Sabin	2, 189	Jan. 26, 1875	7	133
Hams, beef, and tongue	J. H. Michener & Co.	2, 283	Mar. 9, 1875	7	387
Hardware	F. Armstrong	2, 857	Aug. 31, 1875	8	364
Hardware, Builders'	Clark & Co.	2, 365	Apr. 13, 1875	7	610
Hardware, Carriage	C. Cowles & Co.	2, 658	June 8, 1875	7	969
Harness	J. R. Hill & Co.	2, 530	May 18, 1875	7	837
Harnesses and carriages, Hard-rubber-coated mountings for	A. Albright	2, 218	Feb. 9, 1875	7	223
Harvester rake, dropper, reel, &c.	Whiteley, Fassler & Kelly	3, 185	Nov. 30, 1875	8	909
Harvesters, Guard-fingers, knife-sections, &c., of	Whiteley, Fassler & Kelly	3, 186	Nov. 30, 1875	8	909
Harvesting-machine	Whiteley, Fassler & Kelly	3, 184	Nov. 30, 1875	8	909
Hats	Mallory Manufacturing Company	2, 688	June 15, 1875	7	1014
Hats and caps	S. C. Talcott	2, 273	Mar. 2, 1875	7	345
Hats, caps, &c.	F. Dodd	3, 131	Nov. 16, 1875	8	819
Hats, caps, furs, and straw goods	Boyden, Malloy & Co.	3, 125	Nov. 9, 1875	8	777
Heaters, ranges, and grate-work	D. Mershon's Sons	2, 323	Mar. 30, 1875	7	516
Hinge, Blind	Clark & Co.	2, 894	Aug. 31, 1875	8	365
Hoe, Prong	Reisig & Hexamer	2, 293	Mar. 16, 1875	7	427
Hoes, forks, r kes, &c.	Tuttle Manufacturing Company	2, 855	Aug. 24, 1875	8	323
Horse-nails	Northwestern Horse Nail Company	2, 490	May 11, 1875	7	784
Hose for pumps, engines, &c.	Wannaluset Manufacturing Company	2, 327	Mar. 30, 1875	7	516
Hose, Woolen	A. P. Olzendam	2, 768	July 20, 1875	8	96
Hosiery	J. J. Glazier, Brother & Co.	2, 680	June 15, 1875	7	1014
Hosiery	Kibbe, Chaffee & Co.	2, 685	June 15, 1875	7	1014
I.					
India-rubber goods	J. M. Corwin	3, 256	Dec. 21, 1875	8	1034
India-rubber goods	India Rubber Comb Company	2, 934	Sept. 14, 1875	8	439
Indigo-blue dye	J. Marble & Co.	2, 876	Aug. 31, 1875	8	365
Ink, Indelible	A. L. Williston	2, 893	Aug. 31, 1875	8	365
Inks, Copyable printing and writing	F. D. Bertot	2, 379	Apr. 20, 1875	7	652
Inks, Writing and copying	Lockwood, Brooks & Co.	3, 091	Oct. 26, 1875	8	689
Insect-powder	C. N. Crittenton	2, 814	Aug. 10, 1875	8	241
Iron, Galvanized sheet	McCullough Iron Company	2, 423	May 4, 1875	7	743
Iron, Galvanized sheet	McCullough Iron Company	2, 533	May 18, 1875	7	838
Iron, Pig	Bay State Iron Company	2, 338	Apr. 6, 1875	7	564
Iron pipe, Wrought	Evans, Clow, Dalzell & Co.	2, 838	Aug. 24, 1875	8	323
Iron, Sheet	J. Wood & Brothers	3, 055	Oct. 19, 1875	8	646
J.					
Jams, jellies, marmalades, and preserved fruits	P. J. Ritter	2, 393	Apr. 20, 1875	7	652
Jewelry	F. S. Allen	2, 937	Sept. 14, 1875	8	439
Jewelry	Thayer Manufacturing Jewelry Company	2, 376	Apr. 13, 1875	7	610
Journal-bearings, Railway	Bowles & Wilkins	3, 192	Dec. 7, 1875	8	946
K.					
Knit woolen goods, Fancy	H. E. Dillingham	3, 080	Oct. 19, 1875	8	646
Knitted goods	Lewis, Brown & Co.	2, 739	July 13, 1875	8	49
Knitted goods	Troy Hosiery Manufacturing Company	2, 196	Jan. 26, 1875	7	133
Knitted hosiery	W. F. Salmon	2, 252	Feb. 23, 1875	7	303
Kümmel	A. C. Meyer & Co.	3, 216	Dec. 7, 1875	8	546
L.					
Ladies' and children's wear, Articles of	G. Frost & Co.	2, 679	June 15, 1875	7	1014
Lamp-chimneys	C. F. A. Hinricks	2, 535	May 25, 1875	7	800
Lamp-chimneys	Mount Washington Glass Works	3, 249	Dec. 14, 1875	8	988
Lamp chimneys and shades	R. Douglas & Co.	3, 172	Nov. 30, 1875	8	909
Lamp chimneys and shades	Pabst & Esch	3, 217	Dec. 7, 1875	8	946
Lamp-chimneys, Glass	Excelsior Flint Glass Company	2, 611	June 1, 1875	7	926
Lamp-chimneys, Glass	Excelsior Flint Glass Company	2, 612	June 1, 1875	7	926
Lamp-wick, Miner's	R. Chadwick	2, 952	Sept. 21, 1875	8	475
Lamp wicks or wicking	R. H. Burns & C. Drew	3, 224	Dec. 14, 1875	8	988
Lamps	C. F. A. Hinricks	3, 111	Nov. 2, 1875	8	729
Lard	V. W. Macfarlane & Co.	3, 199	Dec. 7, 1875	8	946
Lard	G. C. Napheys & Son	2, 390	Apr. 20, 1875	7	652
Lard	G. C. Napheys & Son	2, 437	May 4, 1875	7	743
Lard	E. Puig & Co.	3, 067	Oct. 19, 1875	8	646
Lard, beef-tongues, hams, and other cured meats	Chesebrough & Burrows	2, 314	Mar. 23, 1875	7	466
Lard, lard-oil, and neat's-foot oil	N. K. Fairbank & Co.	2, 573	May 18, 1875	7	839

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Lard, pork, &c.	A. Fowler	2,866	Aug. 31, 1875	8	365
Lard, Refined	A. and J. M. Moses	2,389	Apr. 20, 1875	7	652
Lead	Forest River Lead Company	2,421	May 4, 1875	7	743
Lead for painters' use	Boston Lead Company	2,577	May 25, 1875	7	879
Lead, White	Atlantic White Lead Company	2,773	July 20, 1875	8	96
Lead, &c., White	F. S. Pease	2,848	Aug. 24, 1875	8	323
Lead, zinc, and paints, White	Baxter, Bell & Co.	2,515	May 18, 1875	7	837
Leather	Eagle Tanning Works	2,581	May 25, 1875	7	880
Leather	G. F. & C. T. Page	2,779	July 20, 1875	8	96
Leather	G. F. & C. T. Page	2,780	July 20, 1875	8	96
Leather-board	E. F. Bailey	2,999	Oct. 5, 1875	8	561
Leather or raw-hide, Manufactured	H. Royer	3,182	Nov. 30, 1875	8	909
Leather-preservative and water-proof polish	G. W. Graham	3,644	Oct. 19, 1875	8	646
Linen and cotton fabrics	J. Bullocke and J. B. Locke	3,060	Oct. 19, 1875	8	646
Liniment	R. Banes	2,543	May 18, 1875	7	838
Liniment	C. F. Brown Chemical Company	3,255	Dec. 21, 1875	8	1034
Liniment	G. O. Clark	2,420	May 4, 1875	7	743
Liniment	G. Cleis	2,953	Sept. 21, 1875	8	475
Liniment	G. Conch	2,268	Mar. 2, 1875	7	345
Liniment	E. Maatman	2,299	Mar. 16, 1875	7	427
Liniment	C. Schaeffer	3,052	Oct. 19, 1875	8	646
Liquors, Redistilled	H. W. Smith & Co.	2,912	Sept. 7, 1875	8	403
Locks and hardware	Hillebrand & Wolf	2,707	July 6, 1875	8	4
Locks and latches, Door	Mallory, Wheeler & Co.	3,137	Nov. 16, 1875	8	819
Loom-templates	Dutcher Temple Company	2,330	Mar. 30, 1875	7	516
Lounges, Camp	Camp Lounge Company	2,672	June 15, 1875	7	1014
Lye and potash	I. N. Stern	2,743	July 13, 1875	8	49
M.					
Mail-bags	J. Boyle	2,789	July 27, 1875	8	149
Marmalade, Orange	T. Ritchie & Co.	2,977	Sept. 21, 1875	8	476
Matches, Friction	Barber Match Company	3,102	Nov. 2, 1875	8	729
Matches, Friction	J. L. Clark	2,521	May 18, 1875	7	837
Matches, Friction	Swift & Courtney & Beecher Company	2,501	May 11, 1875	7	784
Meats, Cured	C. Baltz	3,148	Nov. 23, 1875	8	862
Meats, Prepared	Wilson Packing Company	2,935	Sept. 14, 1875	8	439
Meats, &c., Smoked	J. P. Wright & Co.	2,919	Sept. 7, 1875	8	404
Meats, Smoked and pickled	F. A. Ferris	3,106	Nov. 2, 1875	8	729
Medals	J. H. Hobart	2,708	July 6, 1875	8	4
Medicated belts	Love & Wilson	2,669	June 15, 1875	7	1014
Medicated brandies	T. Dockum & Son	2,559	May 18, 1875	7	838
Medicated, Whisky	F. M. Eppley	3,174	Nov. 30, 1875	8	909
Medicinal or mineral water	H. A. Benjamin	2,191	Jan. 26, 1875	7	133
Medicine	J. C. Ayer & Co.	2,323	Mar. 30, 1875	7	516
Medicine	E. R. Burnham	2,380	Apr. 13, 1875	7	611
Medicine	E. R. Burnham	2,384	Apr. 20, 1875	7	652
Medicine	J. W. Campion & Co.	2,899	Sept. 7, 1875	8	403
Medicine	J. Carnrick	3,001	Oct. 5, 1875	8	561
Medicine	E. E. Chamberlain	3,150	Nov. 23, 1875	8	862
Medicine	W. M. Clarke & Co.	2,386	Apr. 20, 1875	7	652
Medicine	J. A. Craig	2,827	Aug. 17, 1875	8	281
Medicine	P. Davis & Son	3,153	Nov. 23, 1875	8	862
Medicine	D. Dick & Co.	1,167	Jan. 12, 1875	7	48
Medicine	W. B. Douglass & Co.	2,828	Aug. 17, 1875	8	281
Medicine	C. Fleming	2,471	May 11, 1875	7	783
Medicine	C. Fleming	2,472	May 11, 1875	7	783
Medicine	H. D. Fowle	2,473	May 11, 1875	7	783
Medicine	B. Gorrell	2,289	Mar. 16, 1875	7	427
Medicine	C. L. Gowdey & Co.	2,264	Mar. 2, 1875	7	345
Medicine	L. M. Green	3,003	Oct. 5, 1875	8	561
Medicine	L. M. Green	3,004	Oct. 5, 1875	8	561
Medicine	J. N. Harris & Co.	3,081	Oct. 19, 1875	8	646
Medicine	H. H. Hay	2,788	July 27, 1875	8	149
Medicine	Heath & Co.	3,124	Nov. 2, 1875	8	730
Medicine	J. F. Henry, Curran & Co.	2,291	Mar. 16, 1875	7	427
Medicine	J. A. Holmes	2,896	Aug. 31, 1875	8	365
Medicine	Hostetter & Smith	3,135	Nov. 16, 1875	8	819
Medicine	H. C. Hough	2,683	June 15, 1875	7	1014
Medicine	J. Kaiser	2,231	Feb. 16, 1875	7	261
Medicine	T. F. X. Kissling & Co.	2,992	Sept. 28, 1875	8	521
Medicine	E. F. Kunkel	2,369	Apr. 13, 1875	7	610
Medicine	D. Langell	2,929	Sept. 14, 1875	8	439
Medicine	Lawson Chemical Company	2,621	June 1, 1875	7	926
Medicine	Lee & Brothers	2,483	May 11, 1875	7	784
Medicine	E. G. Lewis	2,238	Feb. 16, 1875	7	261
Medicine	O. F. Lohman	3,245	Dec. 14, 1875	8	988
Medicine	H. N. Lyon	2,875	Aug. 31, 1875	8	865
Medicine	J. & C. Maguire	2,564	May 18, 1875	7	838
Medicine	O. B. Mansell	3,116	Nov. 2, 1875	8	730
Medicine	A. F. Merrell	3,064	Oct. 19, 1875	8	646
Medicine	J. R. Nichols & Co.	2,438	May 4, 1875	7	743
Medicine	B. F. Nunns	3,093	Oct. 26, 1875	8	689
Medicine	W. H. Pancoast	2,689	June 15, 1875	7	1014
Medicine	P. E. Picault	2,492	May 11, 1875	7	784
Medicine	J. Purley & Co.	2,424	May 4, 1875	7	743
Medicine	Radway & Co.	2,625	June 1, 1875	7	927
Medicine	Radway & Co.	2,626	June 1, 1875	7	927
Medicine	Radway & Co.	2,627	June 1, 1875	7	927
Medicine	W. Renne & Sons	2,356	Apr. 6, 1875	7	565
Medicine	C. L. Rex	2,741	July 13, 1875	8	49
Medicine	A. M. Rodgers	2,885	Aug. 31, 1875	8	365
Medicine	A. M. Rodgers	2,886	Aug. 31, 1875	8	365
Medicine	J. H. Ruttley	2,392	Apr. 20, 1875	7	652
Medicine	J. H. Slater	3,071	Oct. 19, 1875	8	646

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Medicine.....	T. H. Smart.....	3, 277	Dec. 21, 1875	8	1035
Medicine.....	Snyder & Gue.....	3, 121	Nov. 2, 1875	8	730
Medicine.....	F. Spreen.....	2, 375	Apr. 13, 1875	7	610
Medicine.....	W. Swain.....	3, 140	Nov. 16, 1875	8	819
Medicine.....	W. Swain.....	3, 141	Nov. 16, 1875	8	819
Medicine.....	W. Swain.....	3, 142	Nov. 16, 1875	8	819
Medicine.....	W. Swain.....	3, 143	Nov. 16, 1875	8	819
Medicine.....	G. Talcot.....	2, 503	May 11, 1875	7	784
Medicine.....	Tarrant & Co.....	3, 023	Oct. 11, 1875	8	600
Medicine.....	Tarrant & Co.....	3, 024	Oct. 11, 1875	8	600
Medicine.....	H. A. Tilden.....	3, 238	Dec. 14, 1875	8	988
Medicine.....	Tilden & Co.....	2, 854	Aug. 24, 1875	8	323
Medicine.....	J. D. Wattles.....	2, 358	Apr. 6, 1875	7	595
Medicine.....	E. A. Weber.....	2, 510	May 11, 1875	7	784
Medicine.....	West, Trafford & Co.....	3, 239	Dec. 14, 1875	8	988
Medicine.....	J. E. Woodward.....	2, 212	Feb. 2, 1875	7	181
Medicine.....	Yerba Buena Bitters Company.....	2, 572	May 18, 1875	7	839
Medicine.] Balsam.....	J. Foley.....	2, 864	Aug. 31, 1875	8	364
Medicine.] Balsam.....	J. Foley.....	2, 865	Aug. 31, 1875	8	365
Medicine.] Bitters.....	Byrne Brothers & Co.....	2, 544	May 18, 1875	7	838
Medicine.] Bitters.....	F. C. Clemson.....	2, 749	July 20, 1875	8	95
Medicine.] Bitters.....	H. Ernst.....	3, 195	Dec. 7, 1875	8	946
Medicine.] Bitters.....	T. Fillette.....	2, 613	June 1, 1875	7	926
Medicine.] Bitters.....	S. B. Hartman & Co.....	2, 755	July 20, 1875	8	95
Medicine.] Bitters.....	M. Herzberg.....	2, 868	Aug. 31, 1875	8	365
Medicine.] Bitters.....	W. H. Knoepfel.....	2, 343	Apr. 6, 1875	7	564
Medicine.] Bitters.....	W. H. Knoepfel.....	2, 344	Apr. 6, 1875	7	564
Medicine.] Bitters.....	A. Koch.....	3, 164	Nov. 23, 1875	8	862
Medicine.] Bitters.....	M. G. Landsberg.....	3, 214	Dec. 7, 1875	8	946
Medicine.] Bitters.....	Schmidlopp & Co.....	2, 207	Feb. 2, 1875	7	181
Medicine.] Bitters.....	P. D. Van Ingen.....	2, 326	Mar. 30, 1875	7	516
Medicine.] Bronchial troches.....	J. I. Brown & Sons.....	2, 519	May 18, 1875	7	837
Medicine.] Castor-oil.....	H. J. Baker & Bro.....	2, 747	July 20, 1875	8	95
Medicine.] Castor-oil.....	H. J. Baker & Bro.....	2, 748	July 20, 1875	8	95
Medicine.] Castor-oil.....	R. B. Brown.....	3, 000	Oct. 5, 1875	8	561
Medicine.] Castor-oil.....	Storkdale, Smith & Co.....	2, 694	June 22, 1875	7	1057
Medicine.] Cod-liver oil.....	Buntin & Armstrong.....	2, 988	Sept. 28, 1875	8	521
Medicine.] Cod-liver oil.....	P. Möller.....	2, 350	Apr. 6, 1875	7	564
Medicine.] Cough-sirup.....	Les Sœurs de L'Asile de la Providence de Montreal.....	2, 333	Mar. 30, 1875	7	516
Medicine.] Essence of Jamaica ginger.....	F. Brown.....	2, 419	May 4, 1875	7	743
Medicine.] Felon-cure.....	W. H. Puffer.....	2, 157	Jan. 5, 1875	7	6
Medicine.] Fever and ague cure.....	Gladstone & Ferguson.....	2, 809	Aug. 3, 1875	8	195
Medicine.] Fever and ague pills.....	Willets & Co.....	2, 809	June 8, 1875	7	968
Medicine for rheumatism.....	W. W. Brown.....	3, 041	Oct. 19, 1875	8	645
Medicine.] Liquid tonic.....	J. F. Sarle.....	3, 070	Oct. 19, 1875	8	646
Medicine.] Liver-pills.....	C. Fleming.....	2, 526	May 18, 1875	7	837
Medicine.] Neuralgia-cure.....	W. Gilmore & Son.....	2, 638	June 8, 1875	7	868
Medicine.] Pile-cure.....	Montgomery & Co.....	2, 184	Jan. 19, 1875	7	93
Medicine.] Pills.....	G. Talcot.....	2, 504	May 11, 1875	7	784
Medicine.] Preparation of cod-liver oil.....	E. H. Truex.....	3, 264	Dec. 21, 1875	8	1034
Medicine.] Preparation of magnesia.....	C. H. Phillips.....	2, 381	Apr. 13, 1875	7	611
Medicine.] Preparation of magnesia.....	C. H. Phillips.....	2, 382	Apr. 13, 1875	7	611
Medicine.] Stomach-bitters.....	J. A. Jackson & Co.....	2, 368	Apr. 13, 1875	7	610
Medicine.] St. Vitus's dance or chorea, Remedy for.....	H. E. Wright.....	2, 936	Sept. 14, 1875	8	439
Medicine.] Tonic or bitters.....	E. Brown & Co.....	2, 433	May 4, 1875	7	743
Medicine.] Tonics.....	T. S. Foote.....	2, 895	Aug. 31, 1875	8	365
Metal.....	Patent Metal Company.....	2, 723	July 6, 1875	8	5
Metal and plated ware.....	F. W. Rogers.....	3, 219	Dec. 7, 1875	8	946
Metal, Anti-friction.....	G. S. Hunt.....	2, 668	June 15, 1875	7	1014
Metal, Anti-friction.....	G. S. & B. E. Hunt.....	3, 197	Dec. 7, 1875	8	946
Metal, Anti-friction.....	G. S. & B. E. Hunt.....	3, 198	Dec. 7, 1875	8	946
Metal, Plate.....	Bay State Iron Company.....	2, 339	Apr. 6, 1875	7	564
Milk.....	J. R. Pond.....	2, 495	May 11, 1875	7	784
Milk, Condensed and fresh.....	S. W. Canfield.....	2, 790	July 27, 1875	8	149
Mince-meat.....	Atmore & Son.....	2, 700	July 6, 1875	8	4
Mop and brush holder.....	Clark & Co.....	2, 813	Aug. 19, 1875	8	241
Moth-proof fabric.....	Hall & Kennell.....	2, 342	Apr. 6, 1875	7	564
Mowing and reaping machines.....	Adrianne, Platt & Co.....	2, 362	Apr. 13, 1875	7	610
Mowing and reaping machines and grain-binders.....	W. A. Wood Mowing and Reaping Machine Company.....	3, 285	Dec. 28, 1875	8	1077
Mustard.....	Jewett, Sherman & Co.....	2, 230	Feb. 16, 1875	7	261
Mustard.....	A. A. Plastringe.....	2, 354	Apr. 6, 1875	7	564
Mustard.....	Swain, Earle & Co.....	2, 539	May 18, 1875	7	838
Mustard and spices.....	Pinckney, Jackson & Co.....	2, 440	May 4, 1875	7	743
N.					
Nautical instruments.....	R. Merrill & Sons.....	2, 963	Sept. 21, 1875	8	476
Neck-tie.....	Hellenberg & Lowenstein.....	2, 152	Jan. 5, 1875	7	6
O.					
Oaten grits.....	Lunt Brothers.....	2, 818	Aug. 10, 1875	8	241
Oatmeal.....	S. G. Bowdlear & Co.....	2, 458	May 11, 1875	7	783
Oatmeal, Scotch.....	R. Shoemaker & Co.....	3, 190	Nov. 2, 1875	8	730
Oil.....	Simons & Brother.....	2, 361	Apr. 6, 1875	7	565
Oil, Axle.....	C. C. Richmond.....	2, 425	May 4, 1875	7	743
Oil, Cans.....	J. P. Haines.....	2, 527	May 18, 1875	7	837
Oil, Illuminating.....	W. E. Jervey.....	2, 153	Jan. 5, 1875	7	6
Oil, Lubricating.....	F. M. Backus.....	2, 746	July 20, 1875	8	95
Oil, Lubricating.....	W. Downie.....	3, 154	Nov. 23, 1875	8	862
Oil, Lubricating.....	Galena Oil Works.....	2, 570	May 18, 1875	7	839
Oil, Lubricating.....	Globe Oil Company.....	3, 196	Dec. 7, 1875	8	946
Oil, Lubricating.....	Lester Oil Company.....	3, 090	Oct. 26, 1875	8	689

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Oil, Lubricating	W. C. Stiles, jr	2,295	Mar. 16, 1875	7	427
Oil, Lubricating	H. C. Van Tine & Co.	3,075	Oct. 19, 1875	8	646
Oil, Lubricating and illuminating	E. E. Hendrick	3,047	Oct. 19, 1875	8	646
Oil, Refined boiled linseed	Atlantic White Lead Company	2,774	July 20, 1875	8	96
Oil, Wool	American Lubricating Oil Company	3,190	Dec. 7, 1875	8	946
Oil, Wool	Lecomb, Kchew & Thayer	3,276	Dec. 21, 1875	8	1035
Oils and other chemicals, Essential	C. H. Phillips	2,439	May 4, 1875	7	743
Oils and pastes	J. Glover & Co.	3,159	Nov. 23, 1875	8	862
Oiling apparatus	S. Hutchinson, jr.	2,563	May 18, 1875	7	838
Ointment, Life	W. Ostrander & Sons	2,353	Apr. 6, 1875	7	564
Organs	E. P. Needham & Sons	3,262	Dec. 21, 1875	8	1034
Organs, Cabinet	F. W. Helmick	3,032	Oct. 11, 1875	8	601
Organs, Church and parlor reed	Whitney & Currier	3,877	Oct. 19, 1875	8	646
Organs, Reed	J. Estey & Co.	2,524	May 18, 1875	7	837
Organs, Stop for reed	J. Estey & Co.	2,523	May 18, 1875	7	837
Overalls, shirts, and drawers	M. Rosenbach & Co.	2,941	Sept. 14, 1875	8	439
Overcoats	Devlin & Co.	3,010	Oct. 5, 1875	8	561
Overcoats	Devlin & Co.	3,011	Oct. 5, 1875	8	561
Overcoats	Devlin & Co.	3,012	Oct. 5, 1875	8	561
P.					
Packing for stuffing-boxes, &c	W. H. Miller	2,239	Feb. 16, 1875	7	261
Paint	Farrand, Williams & Co.	2,525	May 18, 1875	7	837
Paint	G. E. Glines	2,845	Aug. 24, 1875	8	323
Paint	Hainemann & Steiner	2,180	Jan. 19, 1875	7	93
Paint	National Mixed Paint Company	3,178	Nov. 30, 1875	8	909
Paint	D. Steiner & Co.	2,932	Sept. 14, 1875	8	439
Paint	Walter & Fielding	2,598	May 25, 1875	7	880
Paint	Walter & Fielding	2,599	May 25, 1875	7	880
Paint, Green	D. Steiner & Co.	2,538	May 18, 1875	7	838
Paint, Metallic	F. G. Bourke & Co.	2,518	May 18, 1875	7	837
Paint, Mineral	Foundry Supply Company	3,228	Dec. 14, 1875	8	988
Paint or cement	E. W. Tibbels	2,261	Feb. 23, 1875	7	303
Paints, colors, and painting materials	D. F. Tiemann & Co.	2,430	May 4, 1875	7	743
Paints, composition coatings, and wood-fillings	Thorpehill & Co.	2,225	Feb. 9, 1875	7	223
Paints, Liquid and paste	French, Richards & Co.	2,990	Sept. 28, 1875	8	521
Paints, Mixed	F. P. Callaghan	3,151	Nov. 23, 1875	8	862
Pamphlet	G. Talicot	2,772	July 20, 1875	8	96
Pantaloons and coats	Brock & Wiener	3,254	Dec. 21, 1875	8	1034
Paper, Account-book	Keith Paper Company	2,315	Mar. 23, 1875	7	466
Paper, Albumen	G. Gennert	2,928	Sept. 14, 1875	8	439
Paper, Commercial note	J. Leach	2,411	Apr. 27, 1875	7	701
Paper collar	Moseley & Moody	2,995	Sept. 28, 1875	8	521
Paper collar	Ray & Taylor Manufacturing Company	3,035	Oct. 11, 1875	8	601
Paper collar, Cloth-faced	Metropolitan Collar Company	3,065	Oct. 19, 1875	8	646
Paper, envelopes, and cards	Porter & Bainbridge	2,374	Apr. 13, 1875	7	610
Paper patterns for cutting garments	J. McCall	2,716	July 6, 1875	8	4
Paper, Steam-engine and machinery relating to the treatment of	V. E. Mauger	2,259	Feb. 23, 1875	7	303
Paper, Water-closet	Wilder & Co.	2,856	Aug. 24, 1875	8	323
Paper-weights	F. A. Packard & Co.	3,272	Dec. 21, 1875	8	1035
Paper, Writing	A. Beach	2,457	May 11, 1875	7	783
Paper, Writing	R. J. Harp	2,367	Apr. 13, 1875	7	610
Paper, Writing	Massasoit Paper Manufacturing Company	3,050	Oct. 19, 1875	8	646
Paste, Licorice	J. C. McAndrew	2,532	May 18, 1875	7	837
Pastilles	Stowell & Co.	2,569	May 18, 1875	7	839
Pavements	L. S. Filbert	2,676	June 15, 1875	7	1014
Pencils and rubber erasers	G. Schwanhäusser	3,167	Nov. 23, 1875	8	863
Pencils and rubber erasers, Mechanical lead	G. Schwanhäusser	3,168	Nov. 23, 1875	8	863
Pencils, Drawing lead	G. Schwanhäusser	3,036	Oct. 11, 1875	8	601
Pencils, Lead	O. Cleveland	2,547	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,548	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,549	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,550	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,551	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,552	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,553	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,554	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,555	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,556	May 18, 1875	7	838
Pencils, Lead	O. Cleveland	2,557	May 18, 1875	7	838
Pencils, Lead	Eagle Pencil Company	2,468	May 11, 1875	7	783
Perfume	G. Haas	3,087	Oct. 26, 1875	8	689
Perfume	Miller Brothers	2,172	Jan. 19, 1875	7	93
Perfume	S. C. Upham	2,279	Mar. 9, 1875	7	387
Perfumeries	W. B. Dorman	2,287	Mar. 16, 1875	7	427
Perfumeries	C. B. Woodworth & Son	3,056	Oct. 19, 1875	8	646
Perfumeries and toilet-articles	S. C. Upham	2,226	Feb. 9, 1875	7	223
Perfumeries, cosmetics, and soaps	A. Guerlain	2,660	June 8, 1875	7	969
Perfumeries, soaps, &c	Eddy Brothers	2,179	Jan. 19, 1875	7	93
Petroleum	Power Brothers & Co. and W. H. Powers & Co.	2,391	Apr. 20, 1875	7	652
Petroleum and its products and other oils	Power Brothers & Co. and W. H. Powers & Co.	2,334	Mar. 30, 1875	7	516
Petroleum distillates and residues	W. H. Libby & Co.	3,258	Dec. 21, 1875	8	1034
Piano-forte	Arion Piano-Forte Company	2,162	Jan. 12, 1875	7	48
Piano-forte	Arion Piano-Forte Company	2,163	Jan. 12, 1875	7	48
Pianos	F. C. Light & Co.	3,115	Nov. 2, 1875	8	730
Pickles and vinegar	Heinz, Noble & Co.	2,265	Mar. 2, 1875	7	345
Pictures, Copied	P. C. Harley & Co.	3,045	Oct. 19, 1875	8	646
Pins	Star Pin Company	2,442	May 4, 1875	7	783
Pins	Star Pin Company	2,443	May 4, 1875	7	783
Pins	Star Pin Company	2,444	May 4, 1875	7	783
Pins	Star Pin Company	2,445	May 4, 1875	7	783

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Pins.....	Star Pin Company.....	2,446	May 4, 1875	7	783
Pipe, tubing, &c., Wrought-iron.....	National Tube Works Company.....	2,488	May 11, 1875	7	784
Plane, Carpenter's.....	Stanley Rule and Level Company.....	2,981	Sept. 21, 1875	8	476
Planing and matching machines combined.....	Frank & Co.....	2,678	June 15, 1875	7	1014
Plaster, Porous.....	G. E. Mitchell.....	2,778	July 20, 1875	8	96
Plows.....	B. F. Avery & Sons.....	2,302	Mar. 23, 1875	7	466
Plows.....	B. F. Avery & Sons.....	2,303	Mar. 23, 1875	7	466
Plows.....	B. F. Avery & Sons.....	2,304	Mar. 23, 1875	7	466
Plows.....	B. F. Avery & Sons.....	2,312	Mar. 23, 1875	7	466
Plows.....	W. K. Harrell and T. B. and D. C. Chamberlain.....	3,189	Nov. 30, 1875	8	909
Plows.....	Higginum Manufacturing Company.....	2,853	Aug. 24, 1875	8	323
Plows.....	Monitor Plow Works.....	3,066	Oct. 19, 1875	8	646
Plows.....	D. B. Smith.....	3,037	Oct. 11, 1875	8	601
Plows.....	A. Speer & Sons.....	2,924	Sept. 7, 1875	8	404
Plows, agricultural implements, &c.....	Watt & Call.....	3,098	Oct. 26, 1875	8	689
Plows, cultivators, &c.....	Wiard & Hough.....	2,512	May 11, 1875	7	784
Plumbago or graphite lubricant.....	American Graphite Company.....	2,542	May 18, 1875	7	838
Plumbago, Prepared.....	Morse Brothers.....	2,534	May 18, 1875	7	838
Pocket-book, satchel, &c., clasp.....	H. Silberman.....	3,220	Dec. 7, 1875	8	946
Polish for linen, muslin, &c.....	J. M. Muuyn.....	2,996	Sept. 28, 1875	8	521
Polishing compound.....	Streeter & Riker.....	2,721	July 6, 1875	8	4
Polishing-powder.....	Detroit Polish Company.....	2,908	Sept. 7, 1875	8	403
Printers' inking-rollers, Composition for.....	L. L. Jackson.....	2,616	June 1, 1875	7	926
Printing-press.....	Griffith & Byrne.....	3,134	Nov. 16, 1875	8	819
Printing-presses, &c.....	J. C. Tripp.....	2,506	May 11, 1875	7	784
Pumps.....	C. G. Blatchley.....	3,129	Nov. 16, 1875	8	819
Pumps.....	Coffin & Woodward.....	3,193	Dec. 7, 1875	8	946
Pumps.....	W. and B. Douglas.....	2,176	Jan. 19, 1875	7	93
Pumps.....	W. and B. Douglas.....	2,177	Jan. 19, 1875	7	93
Pumps.....	W. and B. Douglas.....	2,178	Jan. 19, 1875	7	93
Pumps, Force.....	W. J. Johnson.....	2,897	Aug. 31, 1875	8	365
Pumps, &c., Steam.....	Aquometer Steam Pump Company.....	2,998	Oct. 5, 1875	8	561
R.					
Ranges and stoves, Kitchen.....	Bartlett, Robbins & Co.....	2,514	May 18, 1875	7	837
Rasps and files.....	Heller & Brothers.....	2,405	Apr. 20, 1875	7	652
Rats, mice, roaches, &c., Compound for destroying.....	E. S. Wells.....	2,243	Feb. 16, 1875	7	261
Refrigerator.....	J. H. Fisher.....	2,220	Feb. 9, 1875	7	223
Refrigerator and ice-chest.....	Saint Louis Wooden Gutter Manufacturing Company.....	2,982	Sept. 21, 1875	8	476
Ribbons.....	Kiefer & Co.....	2,317	Mar. 23, 1875	7	466
Rifle-powder.....	P. A. Oliver.....	2,846	Aug. 24, 1875	8	323
Rivet, Boiler.....	Hoopes & Townsend.....	2,761	July 20, 1875	8	96
Roach and insect powder.....	H. I. Hart.....	2,737	July 13, 1875	8	49
Rope, twines, gilling-thread, &c.....	Uhler, English & Boileau.....	2,805	Aug. 3, 1875	8	195
Rubber goods.....	National Rubber Company.....	2,352	Apr. 6, 1875	7	564
Ruches, ruffings, and collarettes.....	J. Thomas.....	2,914	Sept. 7, 1875	8	403
Ruches, ruffings, and collarettes.....	J. Thomas.....	2,915	Sept. 7, 1875	8	403
Rum, Medford.....	D. Lawrence & Sons.....	2,823	Aug. 10, 1875	8	241
Rupture-cure.....	H. T. Mitchell.....	2,740	July 13, 1875	8	49
S.					
Salmon, Prepared.....	J. Quinn.....	2,650	June 8, 1875	7	968
Salmon, Salted, pickled, and preserved.....	J. W. & V. Cook.....	2,665	June 15, 1875	7	1014
Salve.....	C. Heinrich.....	2,229	Feb. 16, 1875	7	261
Salve.....	J. W. Rothschild.....	2,441	May 4, 1875	7	783
Satin goods.....	Leisler & Sommerhoff.....	2,959	Sept. 21, 1875	8	476
Satinets or woolen cloths.....	A. G. Dewey & Co.....	3,225	Dec. 14, 1875	8	988
Satinets or woolen cloths.....	A. G. Dewey & Co.....	3,226	Dec. 14, 1875	8	988
Sauce, Table.....	Lewis & Co.....	2,182	Jan. 19, 1875	7	93
Sauce, Table.....	J. K. MacGowan & Co.....	2,714	July 6, 1875	8	4
Sauce, Table.....	J. Meehan.....	3,015	Oct. 5, 1875	8	561
Saws.....	E. C. Atkins & Co.....	2,636	June 8, 1875	7	968
Saws.....	E. C. Atkins & Co.....	2,733	July 13, 1875	8	49
Saws.....	Bissell & Moore Manufacturing Company.....	2,722	July 6, 1875	8	4
Scales, Platform.....	Jones & Lyman.....	2,738	July 13, 1875	8	49
Scythe-stone.....	J. C. Orne & Co.....	3,051	Oct. 19, 1875	8	646
Sealed goods, Hermetically.....	J. W. Jones.....	3,083	Oct. 19, 1875	8	646
Seamless drawn tubes.....	Bridgewater Iron Company.....	2,637	June 8, 1875	7	968
Seamless metal tube.....	American Tube Works.....	2,775	July 20, 1875	8	96
Sewing-machine.....	Finkle & Lyon Manufacturing Company.....	2,429	May 4, 1875	7	743
Sewing-machine.....	Grover & Baker Sewing-Machine Company.....	2,341	Apr. 6, 1875	7	564
Sewing-machine.....	J. B. Myers.....	2,931	Sept. 14, 1875	8	439
Sewing-machine.....	E. Remington & Sons.....	3,095	Oct. 26, 1875	8	689
Sewing-machine.....	Singer Manufacturing Company.....	2,651	June 8, 1875	7	968
Sewing-machine.....	Wheeler & Wilson Manufacturing Company.....	2,943	Sept. 14, 1875	8	439
Sewing-machine.....	Wilcox & Gibbs Sewing-Machine Company.....	2,917	Sept. 7, 1875	8	404
Sewing-machine needles.....	Excelsior Needle Company.....	2,561	May 18, 1875	7	838
Sewing-machine needles and attachment.....	Wilcox & Gibbs Sewing Machine Company.....	2,918	Sept. 7, 1875	8	404
Sheep, Preparation to be used on.....	Redington, Hostetter & Co.....	2,324	Mar. 30, 1875	7	516
Sheet and plate iron.....	A. Wood & Co.....	2,745	July 20, 1875	8	95
Sheet-metal cans and boxes.....	T. W. Burger.....	2,383	Apr. 20, 1875	7	651
Sheet or plate iron.....	A. Wood & Co.....	2,744	July 20, 1875	8	95
Shirt-bosoms.....	S. Sibley.....	2,537	May 18, 1875	7	838
Shirts.....	A. O. Beard.....	3,057	Oct. 19, 1875	8	646
Shirts.....	Bloomer, King & Co.....	2,904	Sept. 7, 1875	8	403
Shirts.....	Bloomer, King & Co.....	3,103	Nov. 2, 1875	8	729
Shirts.....	Burlock Manufacturing Company.....	2,158	Jan. 5, 1875	7	6

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Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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Shirts	Foster & Merrill	2,956	Sept. 21, 1875	8	476
Shirts	E. Jennings & Co	2,387	Apr. 20, 1875	7	652
Shirts	Markowitz & Price	2,171	Jan. 19, 1875	7	93
Shirts	J. E. Page	3,218	Dec. 7, 1875	8	946
Shirts	Stern & Co.	2,357	Apr. 6, 1875	7	565
Shirts	J. Wheelock, jr.	2,831	Aug. 17, 1875	8	281
Shirts, Bosom	G. B. Cluett, Bro. & Co.	2,675	June 15, 1875	7	1014
Shirts, Bosom	Rothschild Bros. & Gutmann	3,275	Dec. 21, 1875	8	1035
Shirtings, &c.	Langdon Manufacturing Company	2,482	May 11, 1875	7	784
Shirtings, Fine	W. S. Slater	3,017	Oct. 5, 1875	8	561
Shovels and spades	J. Dunn	3,257	Dec. 21, 1875	8	1034
Silk and twist, Sewing	W. H. Copcutt & Co	2,165	Jan. 12, 1875	7	48
Silk and twist, Sewing	W. H. Copcutt & Co	2,166	Jan. 12, 1875	7	48
Silk dress-goods, Black	A. De Greiff & Co.	2,400	Apr. 20, 1875	7	652
Silk fabrics	P. A. Daily & Co	2,329	Mar. 30, 1875	7	516
Silk goods	W. H. De Forest	2,907	Sept. 7, 1875	8	403
Silk goods	L. Franke	2,474	May 11, 1875	7	784
Silk, Sewing	Brainerd, Armstrong & Co.	2,245	Feb. 16, 1875	7	261
Silks, satins, &c., Dress	J. McCreery & Co	2,224	Feb. 9, 1875	7	223
Silks, velvets, and dress-goods	Passavant & Co.	2,193	Jan. 26, 1875	7	133
Silver-plated goods	J. W. Tufts	2,210	Feb. 2, 1875	7	181
Silver-polish	W. E. Dunham	2,247	Feb. 23, 1875	7	303
Sizing composition, Warp	J. W. Wattles & Son	3,082	Oct. 19, 1875	8	646
Skates	Starr Manufacturing Company	3,221	Dec. 7, 1875	8	946
Skins and leather	W. Quirin & Co.	3,020	Oct. 11, 1875	8	600
Snuff	Weyman & Bro	2,916	Sept. 7, 1875	8	404
Soap	J. P. Babcock & Co	2,418	May 4, 1875	7	742
Soap	R. W. Bell & Co	2,363	Apr. 13, 1875	7	610
Soap	R. W. Bell & Co	2,364	Apr. 13, 1875	7	610
Soap	R. W. Bell & Co	2,860	Aug. 31, 1875	8	364
Soap	R. W. Bell & Co	3,191	Dec. 7, 1875	8	946
Soap	R. M. Bishop & Co	2,517	May 18, 1875	7	837
Soap	W. Conway	2,385	Apr. 20, 1875	7	652
Soap	C. N. Crittenton	2,815	Aug. 10, 1875	8	241
Soap	L. I. Fisk & Co	3,029	Oct. 11, 1875	8	601
Soap	A. Hay Company	3,025	Oct. 11, 1875	8	600
Soap	C. S. Higgins	3,211	Dec. 7, 1875	8	946
Soap	Kendall Manufacturing Company	2,296	Mar. 16, 1875	7	427
Soap	J. S. Kirk & Co	3,048	Oct. 19, 1875	8	646
Soap	E. Krafft & Co	2,958	Sept. 21, 1875	8	476
Soap	Lantz Bros. & Co.	2,873	Aug. 31, 1875	8	865
Soap	Lantz Bros. & Co.	3,215	Dec. 7, 1875	8	946
Soap	Lincoln Manufacturing Company	2,406	Apr. 20, 1875	7	652
Soap	C. Lipps	2,346	Apr. 6, 1875	7	564
Soap	C. Lipps	3,230	Dec. 14, 1875	8	988
Soap	McKeone, Van Haagen & Co.	2,347	Apr. 6, 1875	7	564
Soap	E. S. Morris & Co.	3,127	Nov. 9, 1875	8	777
Soap	H. T. Munson	2,567	May 18, 1875	7	838
Soap	J. Oakley	2,587	May 25, 1875	7	880
Soap	J. Oakley	2,588	May 25, 1875	7	880
Soap	D. F. Packer	2,170	Jan. 12, 1875	7	48
Soap	Procter & Gamble	3,251	Dec. 14, 1875	8	989
Soap	Robinson Bros. & Co	2,664	June 8, 1875	7	969
Soap	Robinson Bros. & Co	2,742	July 13, 1875	8	40
Soap	Robinson Bros. & Co	2,795	July 27, 1875	8	149
Soap	Robinson Bros. & Co	2,821	Aug. 10, 1875	8	241
Soap	Robinson Bros. & Co	2,978	Sept. 21, 1875	8	476
Soap	Robinson Bros. & Co	3,201	Dec. 7, 1875	8	946
Soap	Schultz & Co	2,923	Sept. 7, 1875	8	404
Soap	Schultz & Co	3,147	Nov. 16, 1875	8	820
Soap	Strunz & Wetzel	2,194	Jan. 26, 1875	7	133
Soap	I. Warren	2,900	Sept. 7, 1875	8	403
Soap	I. Warren	2,901	Sept. 7, 1875	8	403
Soap	A. E. Whyland	2,634	June 1, 1875	7	927
Soap, Laundry	C. S. Higgins	3,213	Dec. 7, 1875	8	946
Soap, Pressed cake	R. H. Meagley	2,962	Sept. 21, 1875	8	476
Soap, Toilet	F. Sahlfeld	2,811	Aug. 3, 1875	8	195
Soap, toilet preparations, &c.	Colgate & Co	2,578	May 25, 1875	7	879
Soap, toilet preparations, &c.	Colgate & Co	2,579	May 25, 1875	7	880
Soap, Washing	Farrington, Campbell & Co.	3,210	Dec. 7, 1875	8	946
Soda, Prepared washing	C. H. Fischer & Co.	2,185	Jan. 26, 1875	7	133
Soda-water	S. F. Simcs	2,426	May 4, 1875	7	743
Soda-water apparatus	J. W. Tufts	2,431	May 4, 1875	7	743
Sowers and cultivators, Combined seed	Van Brunt & Davis	2,892	Aug. 31, 1875	8	365
Spectacles and eyeglasses	J. Gall	2,799	Aug. 3, 1875	8	194
Spectacles and spectacle-frames	A. L. Smith	2,830	Aug. 17, 1875	8	281
Spectacles, eyeglasses, and optical goods	Sussfeld, Lorsch & Co	2,286	Mar. 9, 1875	7	387
Spectacles, eyeglasses, &c., Rubber	Vulcanite Optical Instrument Company	3,097	Oct. 26, 1875	8	689
Spices	A. G. Gilmore & Co.	2,627	Sept. 14, 1875	8	439
Spices	Packard & James	2,964	Sept. 21, 1875	8	476
Spices	Packard & James	2,965	Sept. 21, 1875	8	476
Spices	Packard & James	2,966	Sept. 21, 1875	8	476
Spices	Packard & James	2,967	Sept. 21, 1875	8	476
Spices	Packard & James	3,179	Nov. 30, 1875	8	909
Spirits from wood	Burcey Chemical Company	3,053	Oct. 19, 1875	8	646
Split-bottom chairs	J. G. Strain	3,263	Dec. 21, 1875	8	1034
Spool, Cotton	J. & P. Coats	2,213	Feb. 9, 1875	7	223
Spool-cotton, Counter-boxes for	J. & P. Coats	3,282	Dec. 28, 1875	8	1076
Squirrels, &c., Poison and poisonous compounds for the destruction of.	J. G. Steele	3,278	Dec. 21, 1875	8	1035
Starch	C. Gilbert	2,206	Feb. 2, 1875	7	181
Starch	Glen Cove Starch Manufacturing Co.	2,403	Apr. 20, 1875	7	652
Stationery	J. C. Deming	2,837	Aug. 24, 1875	8	323
Steam-heating apparatus, steam-fittings, &c.	Pancoast & Maule	2,624	June 1, 1875	7	926
Steel and iron wares	Sweet, Barnes & Co.	2,803	Aug. 3, 1875	8	195
Steel bar, steel plate, and articles made therefrom	Miller, Metcalf & Parkin	3,283	Dec. 28, 1875	8	1076

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Steel bar, steel plate, and articles made therefrom	Miller, Metcalf & Parkin	3,284	Dec. 28, 1875	8	1077
Steel springs and axles	Fort Plain Spring and Axle Works	2,306	Mar. 23, 1875	7	466
Stove and range	March, Brownback & Co.	2,215	Feb. 9, 1875	7	223
Stove and range	Thomas, Roberts, Stevenson & Co.	2,505	May 11, 1875	7	784
Stove, Cooking	Bonnet, Duffy & Co.	2,159	Jan. 12, 1875	7	48
Stove, Cooking	G. F. Filley	2,706	July 6, 1875	8	4
Stove, Cooking	M. F. Filley	2,288	Mar. 16, 1875	7	427
Stove, Cooking	Fuller, Warren & Co.	2,168	Jan. 12, 1875	7	48
Stove, Cooking	Fuller, Warren & Co.	2,360	Apr. 6, 1875	7	565
Stove, Cooking	Shinnick, Woodside & Gibbons	2,500	May 11, 1875	7	784
Stove, Pocket cook	Houchin Manufacturing Company	2,531	May 18, 1875	7	837
Stove, Pocket spirit	G. P. Houston	2,258	Feb. 23, 1875	7	303
Stove-polish	H. A. Bartlett & Co.	2,833	Aug. 24, 1875	8	323
Stove-polish	H. A. Bartlett & Co.	2,949	Sept. 21, 1875	8	475
Stove-polish	C. H. Fisher & Co.	2,219	Feb. 9, 1875	7	223
Stove-polish	S. S. Myers	3,092	Oct. 26, 1875	8	689
Stove-polish	C. E. Teets	3,252	Dec. 14, 1875	8	989
Stove, Wood cooking	W. C. Davis & Co.	2,863	Aug. 31, 1875	8	364
Stoves	P. D. Beckwith	2,516	May 18, 1875	7	837
Stoves	Comstock, Castle & Co.	2,558	May 18, 1875	7	838
Stoves	D. G. Littlefield	2,663	June 8, 1875	7	969
Stoves	Michigan Stove Company	3,260	Dec. 21, 1875	8	1034
Stoves	Mitchell, Stephenson & Co.	2,566	May 18, 1875	7	838
Stoves	Summer King Stove Company	2,398	Apr. 20, 1875	7	652
Stoves and stove-trimmings	Cutler & Proctor	2,522	May 18, 1875	7	837
Sugar, Refined	Woods, Weeks & Co.	2,244	Feb. 16, 1875	7	261
Summer-furnaces	C. Riessner	2,671	June 15, 1875	7	1014
Superphosphate	Watson & Clark	2,984	Sept. 21, 1875	8	476
Suspenders and elastic webbing	J. W. Wattles	2,359	Apr. 6, 1875	7	565
T.					
Tack, Carpet	F. F. McNair	2,187	Jan. 26, 1875	7	133
Tea	N. W. Burchell	2,834	Aug. 24, 1875	8	323
Tea	R. Cunningham	2,198	Feb. 2, 1875	7	181
Tea	M. Gillet & Co.	2,839	Aug. 24, 1875	8	323
Tea	Kwong On Cheong	2,835	Aug. 24, 1875	8	323
Teas	Lee Ping & Pon Jib	3,094	Oct. 26, 1875	8	689
Tea	A. Low & Co.	2,765	July 20, 1875	8	96
Tea	Macondray & Co.	2,697	July 6, 1875	8	4
Tea	Macondray & Co.	2,698	July 6, 1875	8	4
Tea	P. Vickers' Sons	2,942	Sept. 14, 1875	8	439
Tea	Williams, Blanchard & Co.	2,202	Feb. 2, 1875	7	181
Tea	Williams, Blanchard & Co.	2,203	Feb. 2, 1875	7	181
Tea	Williams, Blanchard & Co.	2,253	Feb. 23, 1875	7	303
Telegraph instruments and appurtenances	Patrick & Carter	2,491	May 11, 1875	7	784
Textile fabric	E. R. Mudge, Sawyer & Co.	2,216	Feb. 9, 1875	7	323
Thrashers and separators	Alton Agricultural Works	2,945	Sept. 21, 1875	8	475
Thrashing-machines	Alton Agricultural Works	3,222	Dec. 14, 1875	8	988
Thrashing-machine	J. Brayley	2,797	Aug. 3, 1875	8	194
Thrashing-machine	J. Brayley	2,798	Aug. 3, 1875	8	194
Thrashing-machine	Knapp, Burrell & Co.	3,213	Dec. 7, 1875	8	946
Thread, Linen	Dunbar, McMaster & Co.	3,105	Nov. 2, 1875	8	729
Thread, Spool	Clark Thread Company	2,545	May 18, 1875	7	838
Thread, Spool	Clark Thread Company	2,546	May 18, 1875	7	838
Thread, Spool	G. F. Foster	2,955	Sept. 21, 1875	8	476
Tin-plate	N. and G. Taylor Company	2,888	Aug. 31, 1875	8	365
Tin-plate	N. and G. Taylor Company	2,889	Aug. 31, 1875	8	365
Tin-plate	N. and G. Taylor Company	2,890	Aug. 31, 1875	8	365
Tobacco	D. Buchner	2,461	May 11, 1875	7	783
Tobacco	C. R. Messinger	2,349	Apr. 6, 1875	7	564
Tobacco	W. F. Nolen	2,489	May 11, 1875	7	784
Tobacco	Pioneer Tobacco Company	2,310	Mar. 23, 1875	7	466
Tobacco	T. C. Williams and J. Thomas, jr	2,600	May 25, 1875	7	880
Tobacco and cigars	Consolidated Tobacco Company	3,007	Oct. 5, 1875	8	561
Tobacco and cigars	Consolidated Tobacco Company	3,008	Oct. 5, 1875	8	561
Tobacco and cigars	M. Falk	3,043	Oct. 19, 1875	8	645
Tobacco and cigars	M. J. Swank	2,771	July 20, 1875	8	96
Tobacco and cigars	V. M. Ybor & Co.	3,286	Dec. 28, 1875	8	1077
Tobacco and cigars, Manufactured	Consolidated Tobacco Company	3,085	Oct. 26, 1875	8	689
Tobacco, cigars, and snuff	J. Lazear & Co.	2,635	June 1, 1875	7	927
Tobacco, Fine-cut chewing	A. Gillender & Co.	2,321	Mar. 30, 1875	7	516
Tobacco, Leaf	De Ford & Thayer	2,776	July 20, 1875	8	96
Tobacco, Leaf	S. Hersheim	2,760	July 20, 1875	8	96
Tobacco, Leaf	Mayer Brothers	2,993	Sept. 28, 1875	8	521
Tobacco-pouch	Novelty Company	2,154	Jan. 5, 1875	7	6
Tobacco, Smoking	C. Duwel	3,132	Nov. 16, 1875	8	819
Tobacco, Smoking	A. M. Lyon & Co.	2,713	July 6, 1875	8	4
Tobacco, Smoking	J. P. Sarrazin	2,394	Apr. 20, 1875	7	652
Tobacco, Smoking	J. P. Sarrazin	2,395	Apr. 20, 1875	7	652
Tobacco, Smoking	J. P. Sarrazin	2,396	Apr. 20, 1875	7	652
Tobacco, Smoking	J. P. Sarrazin	2,397	Apr. 20, 1875	7	652
Toilet-powder	O. Touché	2,690	June 15, 1875	7	1014
Toilet preparation	H. W. Atwood	2,902	Sept. 7, 1875	8	403
Tooth-paste	Forster & Stowell	2,256	Feb. 23, 1875	7	303
Toy balloons	G. F. Heidet	2,681	June 15, 1875	7	1014
Toy balloons	G. F. Heidet	2,682	June 15, 1875	7	1014
Toy balloons	G. F. Heidet	2,696	July 6, 1875	8	4
Toys	R. Jenkins	2,408	Apr. 20, 1875	7	652
Trimmings, Clothiers' and tailors'	Harris, Richmond & Shafer	2,758	July 20, 1875	8	96
Trimmings, Clothiers' and tailors'	Harris, Richmond & Shafer	2,759	July 20, 1875	8	96
Trimmings, Clothiers' and tailors'	Harris, Richmond & Shafer	2,816	Aug. 10, 1875	8	241
Twines, yarns, shoe-threads, &c.	Cable Flax Mills	2,462	May 11, 1875	7	783
U.					
Umbrellas and parasols	Bassett & Shaw	2,858	Aug. 31, 1875	8	364
Umbrellas and parasols	Heiter & Gans	2,911	Sept. 7, 1875	8	403

Alphabetical list of trade-marks—Continued.

Invention or discovery.	Name of patentee.	No.	Date.	Official Gazette.	
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V.					
Varnish	A. E. Hoppock & Co.....	2,169	Jan. 12, 1875	7	48
Varnish	Seeler & Stevens.....	3,203	Dec. 7, 1875	8	946
Varnish, Gummy or resinous extract of old	Butler & Norwood	3,104	Nov. 2, 1875	8	729
Varnishes, japan, and liquid driers, &c.....	A. W. Pratt & Co	3,233	Dec. 14, 1875	8	988
Vehicle shaft, spoke, &c	J. A. Leippe	2,248	Feb. 23, 1875	7	303
W.					
Wagon-axes	D. A. Brown & Co	2,459	May 11, 1875	7	783
Wagons	S. N. Brown & Co	2,460	May 11, 1875	7	783
Wagons	W. H. Garrett.....	3,229	Dec. 14, 1875	8	988
Wagons, carriages, &c	B. F. Moore	3,138	Nov. 16, 1875	8	819
Wagons, Plantation	W. M. Price.....	2,496	May 11, 1875	7	784
Washing-crystal	F. D. Leidy	2,802	Aug. 3, 1875	8	195
Washing-fluid	Bodkin & McKinney.....	3,058	Oct. 19, 1875	8	646
Washing-powder	O. Corbett	2,319	Mar. 30, 1875	7	516
Washing-powder	Corbett, Scoville & Co.....	2,262	Mar. 2, 1875	7	345
Washing-powder	L. A. Williams	3,241	Dec. 14, 1875	8	988
Watch-movements	L. & M. Kahn	2,388	Apr. 20, 1875	7	652
Watches	J. H. McMillan & Co	3,016	Oct. 5, 1875	8	561
Watches	H. Mulligan	2,535	May 18, 1875	7	838
Watches	H. Mulligan	2,820	Aug. 10, 1875	8	241
Watches	J. E. Robert & Co	2,597	May 25, 1875	7	880
Watches	Schwob Brothers & Co	2,979	Sept. 21, 1875	8	476
Watches	L. Strasburger & Co.....	2,628	June 1, 1875	7	927
Watches	L. Strasburger & Co.....	2,629	June 1, 1875	7	927
Watches	L. Strasburger & Co.....	2,630	June 1, 1875	7	927
Watches	L. Strasburger & Co.....	2,631	June 1, 1875	7	927
Watches	L. Strasburger & Co.....	2,980	Sept. 21, 1875	8	476
Watches	J. W. Tucker	2,266	Mar. 2, 1875	7	345
Watches	J. W. Tucker	2,507	May 11, 1875	7	784
Watches	J. W. Tucker	2,508	May 11, 1875	7	784
Watches	J. W. Tucker	2,632	June 1, 1875	7	927
Water, Compound oxygen	G. R. Starkey	2,428	May 4, 1875	7	743
Water-proof material	A. A. Hawley	2,529	May 18, 1875	7	837
Whisky	Adams & Co	3,209	Dec. 7, 1875	8	946
Whisky	Adams & Taylor	2,412	May 4, 1875	7	742
Whisky	Adams & Taylor	2,414	May 4, 1875	7	742
Whisky	Adams, Blake & Taylor	2,416	May 4, 1875	7	742
Whisky	Barkhouse Brothers & Co	2,513	May 18, 1875	7	837
Whisky	J. E. Cassidy.....	2,520	May 18, 1875	7	837
Whisky	J. E. Cassidy.....	2,951	Sept. 21, 1875	8	475
Whisky	J. E. Cassidy.....	3,061	Oct. 19, 1875	8	646
Whisky	F. Chevalier & Co	2,463	May 11, 1875	7	783
Whisky	Friebberg & Workum	2,910	Sept. 7, 1875	8	403
Whisky	A. H. Gillett	2,366	Apr. 13, 1875	7	610
Whisky	A. H. Gillett	2,752	July 20, 1875	8	95
Whisky	D. V. B. Henarie	2,756	July 20, 1875	8	95
Whisky	Hoffheimer Brothers	2,479	May 11, 1875	7	784
Whisky	Hoffheimer Brothers	2,709	July 6, 1875	8	4
Whisky	I. Jackson & Brother	2,200	Feb. 2, 1875	7	181
Whisky	Jenkins, Capers & Co	2,223	Feb. 9, 1875	7	223
Whisky	B. Lieber	3,114	Nov. 2, 1875	8	730
Whisky	Lilienthal & Co	2,484	May 11, 1875	7	784
Whisky	E. Martin & Co.....	2,766	July 20, 1875	8	96
Whisky	B. M. May	3,231	Dec. 14, 1875	8	988
Whisky	Mills, Johnson & Co.....	2,994	Sept. 28, 1875	8	521
Whisky	T. E. Moore	2,371	Apr. 13, 1875	7	610
Whisky	T. E. Moore	2,372	Apr. 13, 1875	7	610
Whisky	Reis & Becherer	3,069	Oct. 19, 1875	8	646
Whisky	Shields, May & Co.....	3,205	Dec. 7, 1875	8	946
Whisky	Shields, May & Co.....	3,206	Dec. 7, 1875	8	946
Whisky	H. K. Thurber & Co.....	2,450	May 4, 1875	7	783
Whisky	H. K. Thurber & Co.....	3,874	Oct. 19, 1875	8	646
Whisky	Vidvard & Sheehan	2,726	July 6, 1875	8	5
Whisky	Vidvard & Sheehan	2,727	July 6, 1875	8	5
Whisky, Bourbon	Lilienthal & Co	2,824	Aug. 10, 1875	8	241
Whisky, Bourbon	Lilienthal & Co	2,825	Aug. 10, 1875	8	241
Whisky, Bourbon	Torlina, Endres & Co.....	2,278	Mar. 9, 1875	7	387
Whisky, Rye.....	T. E. Moore	2,373	Apr. 13, 1875	7	610
Wine	J. Barnett & Son.....	3,149	Nov. 23, 1875	8	862
Wine	L. Fox & Kohn	2,736	July 13, 1875	8	49
Wine	Wellington, Kidder & Co	2,511	May 11, 1875	7	784
Wine	M. Werk & Sons.....	3,279	Dec. 21, 1875	8	1035
Wines and spirits	Frank, Boehm & Co.....	3,013	Oct. 5, 1875	8	561
Wines, Bottled.....	I. H. Smith's Sons	2,913	Sept. 7, 1875	8	403
Wire goods	J. H. & N. A. Williams	2,211	Feb. 2, 1875	7	181
Wire goods	Woods, Sherwood & Co	2,732	July 6, 1875	8	5
Wood-carvings	Sorrento Wood-Carving Company	2,427	May 4, 1875	7	743
Wood-working	McBeth, Bentel & Margedant.....	2,715	July 6, 1875	8	4
Wood-working tools	Bailey Tool Company.....	2,903	Sept. 7, 1875	8	403
Wool, Germantown	J. H. Smith	2,190	Jan. 26, 1875	7	133
Woolen cloths	Middlesex Company.....	2,435	May 4, 1875	7	743
Woolen fabrics, Woven	Gibson & Tyler.....	2,867	Aug. 31, 1875	8	365
Woolen, worsted, and cotton goods	Washington Mills	2,311	Mar. 23, 1875	7	466
Y.					
Yeast	S. Ager	2,944	Sept. 21, 1875	8	475
Yeast	National Yeast Company.....	2,502	May 11, 1875	7	784
Yeast-cake	American Yeast Company.....	2,150	Jan. 5, 1875	7	6
Yeast-powder	H. K. Thurber & Co.....	2,724	July 6, 1875	8	5

ALPHABETICAL LIST OF LABELS.

Title.	Name.	No.	Date.	Official Gazette.	
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A.					
Adjustable Shirt-Front with Fitting Neck-band for Shirts. The.....	M. Popper	276	July 13, 1875	8	49
"Alexander's Compound Elixir of Stillingia with Iodide Potash, etc".....	Alexander & Brother.....	172	July 20, 1875	8	100
"Alexander's Compound Extract of Buchu"	Alexander & Brother.....	175	July 20, 1875	8	100
"Alexander's Neutralizing Cordial for Diarrhea, etc"	Alexander & Brother.....	174	July 20, 1875	8	100
"Alexander's Pectoral Syrup for Coughs, Colds, etc"	Alexander & Brother.....	173	July 20, 1875	8	100
"Alexander's Texas Tonic Pills for Chills and Fevers"	Alexander & Brother.....	171	July 20, 1875	8	100
"Alkaline Resolvent"	J. Scott	195	July 20, 1875	8	100
"Amusement, Novelty, and Variety. The Seasons and Casino"	W. McConnell	435	Dec. 14, 1875	8	989
"Anderson's Toothache Specific"	C. Anderson	260	June 29, 1875	7	1098
"Animal Meal"	W. H. Bowker	442	Dec. 21, 1875	8	1035
Anti-Corrosive Cylinder-Oil	E. A. Kellogg	288	July 27, 1875	8	149
"Anti-Frothing Oil"	E. H. Kellogg	368	Nov. 2, 1875	8	730
Asbestos and Talc-Oil	J. Stansbury	286	July 20, 1875	8	96
"Atwood Cologne. The"	H. W. Atwood	319	Sept. 14, 1875	8	439
B.					
"Bailey's Patent Iron Block-Plane"	The Stanley Rule and Level Company.....	317	Aug. 31, 1875	8	366
"Balser's Fever and Ague Cure"	G. Balser	326	Sept. 21, 1875	8	476
"Barber's Indian Vegetable Jaundice Bitters"	O. Johnson & Co.....	334	Oct. 5, 1875	8	561
"Barber Match Company, Akron, Ohio"	Barber Match Company.....	251	May 25, 1875	7	880
"Bayles Burner. The"	A. G. Bayles	246	May 25, 1875	7	880
"Bell & Co.'s Glycerine Soap. R. W."	R. W. Bell & Co.....	297	Aug. 10, 1875	8	241
"Bell & Co.'s Transparent Sweet Brier Soap. -R. W."	R. W. Bell & Co.....	296	Aug. 10, 1875	8	241
"Bender's Candy. Mrs."	J. White	306	Aug. 17, 1875	8	281
"Beware of Counterfeit Notes"	Hetsch Brothers.....	433	Dec. 14, 1875	8	989
"Blackman's Genuine Healing Balsam. Dr. J."	M. L. Filkins Brother.....	360	Oct. 26, 1875	8	689
"Blut and Säfte Reinigungs. Thee"	L. Herzinger	233	May 11, 1875	7	784
"Bonham's Recipes"	J. S. Bonham	302	Aug. 17, 1875	8	281
"Boschee's German Syrup of Tar, Wild Cherry, &c. Dr. A."	L. M. Green	333	Oct. 5, 1875	8	561
"Brazilian Headache Powders"	C. Van Arnam	295	Aug. 3, 1875	8	195
"Brilliant Signal Oil"	E. H. Kellogg	458	Dec. 28, 1875	8	1077
"Brown's American Dressing for Boots and Shoes"	J. H. Brown & Co.....	217	July 20, 1875	8	101
"Brown's Vapor, Electro Vapor, and Medicated Bath. Dr."	G. W. Brown	241	May 18, 1875	7	839
"Buhl's Instant Relief for External and Internal use. Dr."	G. Buhl	340	Oct. 11, 1875	8	601
"Buhl's Rheumatic Wonder for External use. Dr"	G. Buhl	339	Oct. 11, 1875	8	601
"Bull's Celebrated Pectoral Compound Cough Syrup. Dr."	A. C. Meyer & Co.....	328	Sept. 21, 1875	8	476
"Bull's Cough Syrup"	A. C. Meyer & Co.....	292	Aug. 3, 1875	8	195
"Business Envelopes"	J. W. Turner	305	Aug. 17, 1875	8	281
C.					
"Calendulene—a glycerine jelly for the toilet"	F. A. Brown	406	Nov. 30, 1875	8	909
"Cancer and Tetter Cure"	W. A. Griffith	299	Aug. 10, 1875	8	241
"Capitol, Richmond, Va."	M. J. Rosendorf	388	Nov. 16, 1875	8	820
"Carbolic Cream"	P. J. Noyes	209	July 20, 1875	8	101
"Carbolic Pocket Disinfectant"	Parker & Co.....	425	Dec. 7, 1875	8	947
"Carbonized Lamp Wick. The"	C. A. Shaw	163	July 20, 1875	8	100
"Carrell's Aromatic Wine Bitters"	S. F. Carell	364	Nov. 2, 1875	8	730
Carter's Aromatic Scotch Bitters	L. F. Carter	268	July 13, 1875	8	49
"Castilian Acidula"	J. B. Woodward	194	July 20, 1875	8	100
"Catarrh Specific"	J. Scott	198	July 20, 1875	8	100
"Caution"	B. F. Badger	253	June 1, 1875	7	927
"Centenary Tooth-Powder"	Dr. E. C. Wadworth	373	Nov. 2, 1875	8	730
"Centennial Brace"	Nashawannuck Manufacturing Company.....	424	Dec. 7, 1875	8	947
"Centennial Coffee. One pound"	J. A. Caldwell	347	Oct. 19, 1875	8	647
"Certain Cure for Gonorrhoea and Gleet. A"	B. Falkenberg	444	Dec. 21, 1875	8	1035
"Champion Violet Copying and Record Fluid"	Levison & Blythe	407	Nov. 30, 1875	8	909
"Chart adapted for and used with Edson's Pressure Recording Gages"	M. B. Edson	291	Aug. 3, 1875	8	195
"Chilblain Specific"	Drake & Brown	225	July 20, 1875	8	101
Chinese Catarrh Remedy	A. W. Wildes	279	July 13, 1875	8	49
"Cleansing Fluid for Destroying Bed Bugs, etc."	J. W. Harris	222	July 20, 1875	8	101
"Coil's Percussion-Primers, 1-2 Doz."	H. C. Morgan	210	July 20, 1875	8	101
"Colby's Asthma Remedy"	L. H. Bush	400	Nov. 30, 1875	8	909
"Comfort's Composing Cordial. Dr."	C. L. Comfort	418	Dec. 7, 1875	8	946
"Comfort's Conserve of Hollyhock for Colds, &c"	C. L. Comfort	417	Dec. 7, 1875	8	946
"Compound Chemical Healing Blood and Bone Ointment"	J. Scott	196	July 20, 1875	8	100
"Compound Fluid Extract of Cancer-Plant"	J. Scott	197	July 20, 1875	8	100
"Conlin's Shooting Gallery, 930 Broadway"	J. S. Collin	379	Nov. 16, 1875	8	820
"Continental Brace, Manufactured by the Nashawannuck Manufacturing Co."	Nashawannuck Manufacturing Company.....	400	Dec. 28, 1875	8	1077
Cooke's Favorite Tomato. The Celebrated	J. Yerkes	280	July 13, 1875	8	49
"Corded End Suspenders. Each pair will be stamped"	National Suspender Company.....	409	Nov. 30, 1875	8	909
"Corning's German Cologne"	W. O. Corning	314	Aug. 31, 1875	8	365
"Craig's Tasteless Tonic Pills. R."	R. Craig	348	Oct. 19, 1875	8	647
"Creedmoor Rifle"	P. A. Oliver	308	Aug. 24, 1875	8	323
"Crockett's Genuine Spar Composition. David B."	D. B. Crockett	350	Oct. 19, 1875	8	647
D.					
"Davidson's Instant Tooth Ache Cure"	H. M. Davidson	456	Dec. 28, 1875	8	1077
"Davis' Electric Cholera Remedy"	N. P. Davis	351	Oct. 19, 1875	8	647

Alphabetical list of labels—Continued.

Title.	Name.	No.	Date.	Official Gazette.	
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"Dawson's Cough Syrup. Dr."	R. Dawson	220	July 20, 1875	8	101
"De Bense's Spanish Fever-Drops"	D. Bense	399	Nov. 30, 1875	8	909
"Delaware Oil"	P. Gerard	315	Aug. 31, 1875	8	365
"Dennis's Vegetable Horse Syrup, for the cure of Coughs, Colds, etc."	W. S. Dennis	212	July 20, 1875	8	101
"Deütches Kindermehl—German Infant Meal"	C. Mayne	423	Dec. 7, 1875	8	947
"Dice Croquet"	F. A. Wright	441	Dec. 14, 1875	8	989
"Domestic Glue"	H. H. Kellogg	356	Oct. 19, 1875	8	647
"Donovan's Rheumatic Liniment"	M. H. and W. F. Donovan	254	June 1, 1875	7	927
"Double-Sized Sample Sheet of the Byron Weston Premium Linen Record Paper."	B. Weston	464	Dec. 28, 1875	8	1077
"Dow's East End Cologne"	B. W. Dow & Co	307	Aug. 24, 1875	8	323
"Dress-Reform Corset Waist and Skirt Supporter, The"	G. Frost and G. H. Phelps	261	June 29, 1875	7	1098
"Drink mich aus und leg mich nieder; steh ich auf dann füll mich wieder."	A. Laemurich	357	Oct. 19, 1875	8	647
"Duane Mills"	W. V. Clark and E. Huntington	234	May 11, 1875	7	784
"Dublin Laundry Blue"	S. Loag	274	July 13, 1875	8	49
"Dueber Watch Case M'fg Co. The"	The Dueber Watch-Case Manufacturing Company.	312	Aug. 24, 1875	8	323
"Dunn's Elixir of Wild Cherry and Tar"	F. Dunn	443	Dec. 21, 1875	8	1035
E.					
"Echo"	F. R. Starr	449	Dec. 21, 1875	8	1035
"Echte Hollandsche Drie Honinger Thee"	L. Herzinger	249	May 25, 1875	7	880
"Egg Baking-Powder"	C. D. Weld	193	July 20, 1875	8	100
"Elixir Peruvian Bark with Protoxide of Iron"	Billings, Clapp & Co	401	Nov. 30, 1875	8	909
"Elixir Peruvian Bark with Protoxide of Iron"	Billings, Clapp & Co	402	Nov. 30, 1875	8	909
"Elixir Peruvian Bark with Protoxide of Iron"	Billings, Clapp & Co	403	Nov. 30, 1875	8	909
"Elixir Peruvian Bark with Protoxide of Iron"	Billings, Clapp & Co	404	Nov. 30, 1875	8	909
"Elixir Peruvian Bark with Protoxide of Iron"	Billings, Clapp & Co	405	Nov. 30, 1875	8	909
"Elliott's Pain Reliever, etc. H. H."	H. H. Elliott	236	May 11, 1875	7	785
"Empire City Glazier's Points"	G. Lester	250	May 25, 1875	7	880
"Engine and Spindle Oil. X X"	E. H. Kellogg	459	Dec. 28, 1875	8	1077
"Erasine, for Erasing Ink from Paper and removing Stains from Cotton, &c."	A. T. Knowlson	396	Nov. 23, 1875	8	863
"Ethereal Phosphorus"	J. Scott	199	July 20, 1875	8	100
"Evans' Herb Syrup. Dr."	E. Miller and E. E. Edwards	258	June 15, 1875	7	1014
"Excelsior Dry Hop Yeast"	F. P. Yenawine	454	Dec. 21, 1875	8	1035
"Extension-Lip Spur Auger Bits"	R. Jennings	457	Dec. 28, 1875	8	1077
F.					
"Fahnestock, Haslett & Schwartz"	J. E. Schwartz	338	Oct. 5, 1875	8	561
"Farrel's Celebrated Arabian Liniment. H. G."	H. G. Farrel	429	Dec. 14, 1875	8	989
"Fillette's Sherry-Wine Tonic"	T. Fillette	248	May 25, 1875	7	880
"Finch's Transformer for Curling the Hair. Mrs. R. P."	Mrs. R. P. Finch	327	Sept. 21, 1875	8	476
"Fisk, Clark & Flag. City Made"	Fisk, Clark & Flag	269	July 13, 1875	8	49
"Florentine. A New Iron Water"	J. R. Coleman	321	Sept. 14, 1875	8	439
"Florentine Flake Candy. The celebrated"	C. F. King, P. B. Howland, and S. Parker.	369	Nov. 2, 1875	8	730
"For Singer, New Family, Blees and Horne, No. B A ¹⁰⁰ / ₁₄₀ "	D. C. Cook	176	July 20, 1875	8	100
"For Single Box, \$1.00. This Irish Salve is warranted to cure, &c"	John L. Fitzgerald	380	Nov. 16, 1875	8	820
"Forest Tar for Consumption, etc."	Forest Tar Company	167	July 20, 1875	8	100
"Forest Tar in Solution for Inhalation, and as a wash for all diseases of the Skin."	Forest Tar Company	165	July 20, 1875	8	100
"Forest Tar Salve"	Forest Tar Company	168	July 20, 1875	8	100
"Forest Tar Soap for cleansing and healing the Skin"	Forest Tar Company	231	July 20, 1875	8	101
"Forest Tar Troches for Bronchitis, etc."	Forest Tar Company	166	July 20, 1875	8	100
"French Vinous Essence. The"	Chome & Co	152	July 20, 1875	8	99
"Frost's Indian Vegetable cough and humor cure. Dr. C. C."	C. C. Frost & Co.	270	July 13, 1875	8	49
G.					
"Garden Tomatoes. Benjamin & Yerks, Albany, N. Y."	Benjamin & Yerks	375	Nov. 9, 1875	8	777
"Gause & Co., Neptune Brand Spices. John H."	J. H. Gause	367	Nov. 2, 1875	8	730
"German Nerve Balm"	B. K. Hough	446	Dec. 21, 1875	8	1035
"Gillet's Kitchen Castile Soap"	Gillet, McCulloch & Co	170	July 20, 1875	8	100
"Gillet's Laundry Castile Soap"	Gillet, McCulloch & Co	204	June 29, 1875	7	1098
"Gillis' Byro-Magic Liniment. Dr. S. M."	M. K. Gillis	352	Oct. 19, 1875	8	647
"Gill's Bilious and Liver Pills"	E. Gill	272	July 13, 1875	8	49
"Girard's Liniment for horses and cattle. Dr. F"	F. Girard	228	July 20, 1875	8	101
"Glycerine and Camphor Cream"	R. L. Drake	365	Nov. 2, 1875	8	730
"Gold Size Coach colors"	C. T. Reynolds	208	July 20, 1875	8	101
"Golden Bird Gravel. The"	E. Aldom	455	Dec. 28, 1875	8	1077
"Golden Medal"	J. Jacobson	434	Dec. 14, 1875	8	989
"Golden's Magnetic Ointment. Dr."	O. H. Golden	353	Oct. 19, 1875	8	647
"Goldsmith's Celebrated Swiss Tonic. Dr."	G. F. Whitney	318	Aug. 31, 1875	8	366
"Goodrich's Tuck Folder"	H. C. Goodrich	181	July 20, 1875	8	100
"Grantville Carbolic Acid. The"	F. B. Nichols	285	July 20, 1875	8	96
"Great Fever Remedy. Ten-Day-Aguc-Cure"	A. M. Cobb	256	June 15, 1875	7	1014
"Great Pawnee Indian Remedy. The"	F. M. Peters	158	July 20, 1875	8	100
"Griffith's Catarrh Remedy"	W. A. Griffith	300	Aug. 10, 1875	8	241
"Griffith's Rheumatic Relief"	W. A. Griffith	298	Aug. 10, 1875	8	241
"Gruman's Genuine English Mustard"	J. B. Gruman & Co.	395	Nov. 23, 1875	8	863
"Gunn's Aromatic Elixir Bitters. Dr."	A. Van Alstine	452	Dec. 21, 1875	8	1035
H.					
"Haggis Chewing-Gum"	Great American Confectionery Company.	205	July 20, 1875	8	101
"Hamburger Seife"	Lantz Brothers & Co.	323	Sept. 14, 1875	8	439
"Hamm's Pure German Mustard"	H. U. Hamm	432	Dec. 14, 1875	8	989
"Hand Loom Silk"	E. M. Benjamin	238	May 11, 1875	7	785

Alphabetical list of labels—Continued.

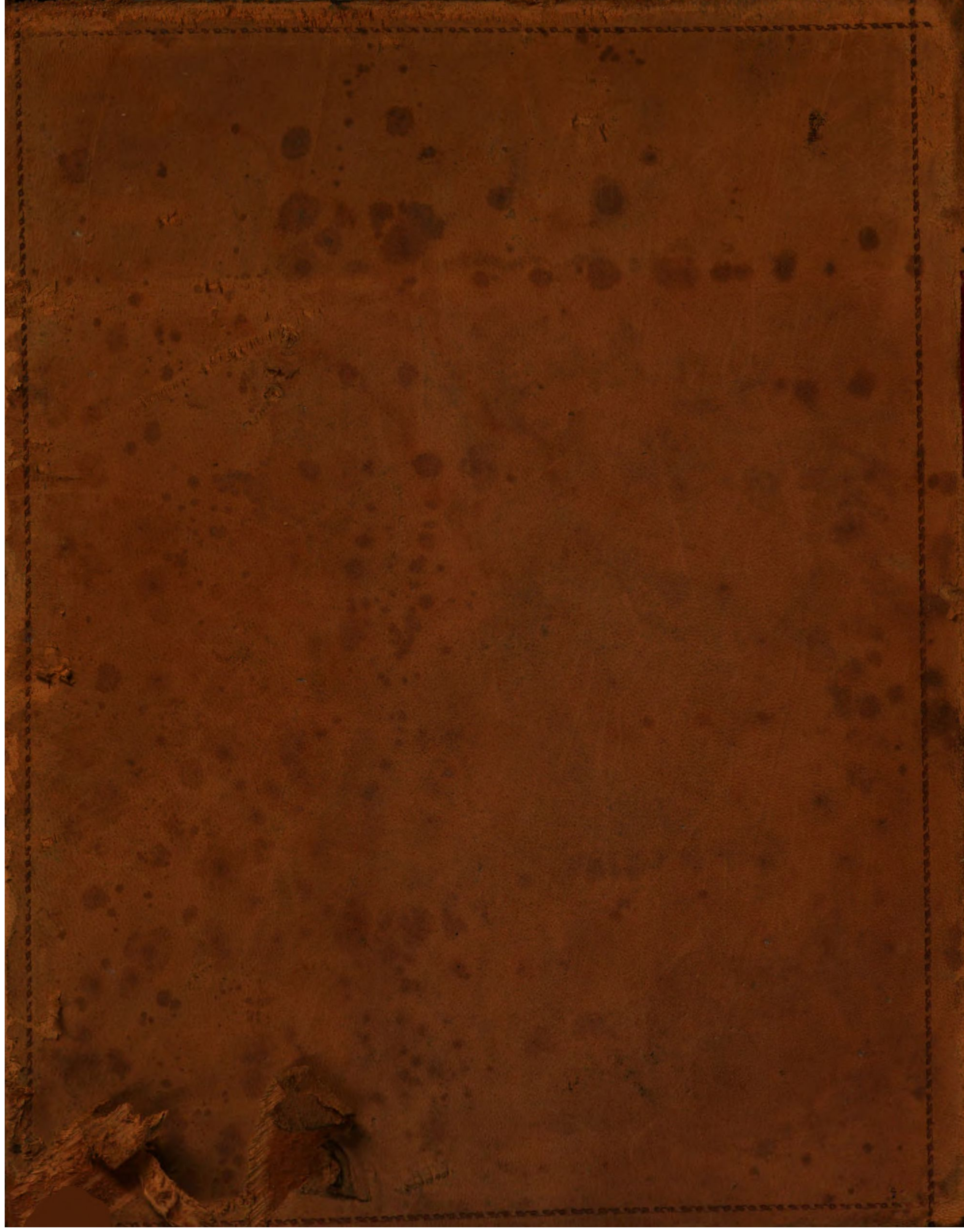
Title.	Name.	No.	Date.	Official Gazette.	
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"Harris' Anodyne Liniment. Internal and External for Man and Beast."	C. P. Harris.....	186	July 20, 1875	8	100
"Harris' (Sherwood's) Cough Specific and Lung Balsam"	J. J. Harris.....	322	Sept. 14, 1875	8	439
"Heuricus' Compound Santal Oil Troches. Dr."	H. Sohl.....	450	Dec. 21, 1875	8	1035
"Higgins' Celebrated Condition Powders. Prof."	Ripley & Cameron.....	344	Oct. 11, 1875	8	601
"Higgins' Healing Ointment. Prof."	Ripley & Cameron.....	343	Oct. 11, 1875	8	601
"Hollen's Healing Oil. Dr."	F. Hollen.....	303	Aug. 17, 1875	8	281
"Hollen's Headache Remedy"	H. W. Hollen.....	361	Oct. 26, 1875	8	689
"Holt's Champion Copying and Writing Fluid"	De Lang, Osterlind & Co.....	376	Nov. 9, 1875	8	777
Holyoke Sarsaparilla Cream.....	C. D. S. Früh.....	271	July 13, 1875	8	49
"Home Made Shirt"	J. Harrington & Co.....	262	June 29, 1875	7	1098
"Hopeful Tobacco, Manufactured by the Merchants' Tobacco Co., Boston, Mass."	Merchants' Tobacco Company..	410	Nov. 30, 1875	8	909
"Hunt's Great Dyspepsia Cure. George W."	G. W. Hunt.....	185	July 20, 1875	8	100
"Hurd's Magical Mixture for Washing Clothes"	Marsh, Hurd & Co.....	335	Oct. 5, 1875	8	561
"Hydrated Oxymel Phosphorus and Fusel Oil"	J. Scott.....	206	July 20, 1875	8	101
I.					
"Igniting-Tape for the Stockwell Self-Lighting Gas-Burner"	W. G. Morgan.....	153	July 20, 1875	8	99
"Improved French Blacking"	F. Miller, Son & Co.....	180	July 20, 1875	8	100
"Irish Fairy Gloss Starch. The"	Kelly, Riley & Co.....	329	Sept. 21, 1875	8	476
J.					
"Japanese Wafers"	J. M. Carter.....	320	Sept. 14, 1875	8	439
"Jelly Glue"	H. H. Kellogg.....	355	Oct. 19, 1875	8	647
"Judd's Medicated Liquid Cuticle"	C. A. Pelton.....	214	July 20, 1875	8	101
K.					
"Kellogg's Arnica, Wormwood and Witch Hazel Medicated Stick-ing Salve and Strengthening Plaster."	H. H. Kellogg.....	169	July 20, 1875	8	100
"Kendall's Pleasant Regulating-Lozenges"	W. H. Kendall.....	162	July 20, 1875	8	100
"Kimm's 50c Premium Aromatic Bitters"	Steketee & Kimm.....	244	May 18, 1875	7	839
"Kinder Suppen Extract"	Syvarth & Schlensener.....	304	Aug. 17, 1875	8	281
"King's German Invigorating Cordial, purely Vegetable"	D. G. King.....	187	July 20, 1875	8	100
"Kriss Kringle"	J. J. Weltse.....	440	Dec. 14, 1875	8	989
"Kuhne's Stimulating Liniment. Dr."	H. Kuhne.....	422	Dec. 7, 1875	8	947
"Kunkel's Bitter Wine of Iron"	E. F. Kunkel.....	284	July 20, 1875	8	96
L.					
"Lapalme's Fire Weed"	D. F. Ward & Co.....	453	Dec. 21, 1875	8	1035
"La Rosa Espanola. S. y Ca"	Seidenberg & Co.....	294	Aug. 3, 1875	8	195
"Lautenbach's Cod-Liver Oil, with Churchill's Hypophosphites and Phosphate of Lime."	R. Lautenbach.....	397	Nov. 23, 1875	8	863
"Lavelle's Celebrated Fit-Powders"	Montgomery & Co.....	156	July 20, 1875	8	100
"Leader Shirt. The"	W. Harrison.....	273	July 13, 1875	8	49
"Leader Shirt. The"	W. R. Rowe.....	223	July 20, 1875	8	101
"Levigated Toilet Soap"	L. L. Miller.....	221	July 20, 1875	8	101
"Lexington Doeskin Jeans"	Appleton, Lancaster & Co.....	413	Dec. 7, 1875	8	946
"Liebig's San Antonio Meat Extract"	San Antonio Meat-Extract Fac-tory.	155	July 20, 1875	8	100
"Lightning Fluid"	Cram & Melcher.....	349	Oct. 19, 1875	8	647
"Liquid of Borates Compound"	C. G. Am Ende.....	259	June 29, 1875	7	1098
"List of Goods Shipped"	E. D. and O. B. Reynolds.....	372	Nov. 2, 1875	8	730
"Lithia, The New Chemical Diuretic"	J. Scott.....	200	July 20, 1875	8	100
"Livingston's Cough Soother"	E. L. Slocum and E. B. White.....	219	July 20, 1875	8	101
"Livingston's Indelible Carmine Ink"	F. L. Joy.....	287	July 27, 1875	8	149
"Lockard's Horse Ointment. H."	S. E. Woodhull & Son.....	374	Nov. 2, 1875	8	730
M.					
"Magee, Manufacturer of Awnings, Banners, Tents, and Flags. Geo. A."	G. A. Magee.....	336	Oct. 5, 1875	8	561
"Manhattan Patent Compound Lye. Directions for using the"	I. N. Stern.....	243	May 18, 1875	7	839
"Mansfield Iron Paints"	J. H. Putnam.....	337	Oct. 5, 1875	8	561
"Manufacturer of The Phosphatic Lead Paint"	W. V. Noe.....	371	Nov. 2, 1875	8	730
"Martin's Ague Pills. Dr."	I. W. Martin.....	447	Dec. 21, 1875	8	1035
"Maryland Yeast-Powder"	Worthington & Tinges.....	346	Oct. 11, 1875	8	601
"Mathis' Quarter-Dollar Liniment"	C. B. Mathis.....	462	Dec. 28, 1875	8	1077
"Mead Extract"	G. C. Bower.....	218	July 20, 1875	8	101
"Meissner, Proprietor of the Palace Royal Cigars. Wm."	W. Meissner.....	383	Nov. 16, 1875	8	820
"Men's and Youth's Pants and Vest Patterns"	J. D. Hall.....	421	Dec. 7, 1875	8	947
"Metcalf & Co.'s, 39 Tremont St., Boston, Sachet Powder. T."	T. Metcalf & Co.....	342	Oct. 11, 1875	8	601
"Minute Fragrant Pain Curer. 5"	J. Scott.....	204	July 20, 1875	8	101
"Mist Limonis Comp."	Relief Manufacturing Company.	386	Nov. 16, 1875	8	820
"Mitchell's Centennial Cologne"	G. E. Mitchell.....	381	Nov. 16, 1875	8	820
"Moore's Pilules"	C. C. Moore.....	266	June 29, 1875	7	1098
Morgan's Polish Reviver.....	A. Morgan.....	275	July 13, 1875	8	49
"Moriarty's Vegetable Canadian Balm"	E. J. Moriarty.....	448	Dec. 21, 1875	8	1035
"Mosher's Historical National Photographic Art Gallery"	C. D. Mosher.....	382	Nov. 16, 1875	8	820
"Music Manuscript Ink"	W. H. Woglem.....	230	July 20, 1875	8	101
N.					
"National Rubber Co., Providence, Rhode Island"	National Rubber Company.....	239	May 11, 1875	7	785
"Nerve Food. The True Nervine"	J. Scott.....	202	July 20, 1875	8	101
"Neuralgo—Rheumatic Elixir"	J. Scott.....	201	July 20, 1875	8	101
"New York Patent Steam Slicing Co.'s 'Eureka' Smoked Beef"	J. W. Beardsley & Sons.....	415	Dec. 7, 1875	8	946
"Nichols' Cure for Nervous or Sick Headache. Mrs."	Mrs. H. C. Nichols.....	232	July 20, 1875	8	101

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O.					
"Old Crowe Distillery Whisky, W. A. Gaines, Distiller, Woodford Co., Ky."	Paris, Allen & Co	384	Nov. 16, 1875	8	820
"Old Hermitage Bourbon Whiskey"	W. A. Gaines & Co.....	430	Dec. 14, 1875	8	989
"Old Hermitage Rye Whiskey"	W. A. Gaines & Co.....	431	Dec. 14, 1875	8	989
"Olive Catarrh Remedy"	J. Green	316	Aug. 31, 1875	8	365
"Orcutt's Salt-Rheum Cure"	D. Orcutt & Son.....	309	Aug. 24, 1875	8	323
"Orisena, an Elegant and Fragrant Preparation for Cleansing and Preserving the Teeth."	T. J. Cox, jr	419	Dec. 7, 1875	8	946
"Owens, chemist, Carbolic Acid Family Salve. R. J."	R. J. Owens	436	Dec. 14, 1875	8	989
"Ozonized Ox Marrow for the Hair"	Buck & Rayner	157	July 20, 1875	8	100
P.					
"Pastiles Aromatic for Sick Room and Parlor"	A. Hohl	183	July 20, 1875	8	100
"Patent Single Thread Chain Stitch Attachment"	S. H. Miller & Co.....	265	June 29, 1875	7	1098
"Patt's Veterinary Ointment. Dr. O. T."	O. T. Patt	267	June 29, 1875	7	1098
"Payn's Sure Raising Flour. John G."	J. G. Payn	154	July 20, 1875	8	100
"Peaches. Carmine, Landan & Co."	J. A. Simpson	311	Aug. 24, 1875	8	323
"Pecare's Salve Cure for scratches, fresh cuts, &c."	Singer & Wheeler.....	227	July 20, 1875	8	101
"Penna. White Lead Works"	J. E. Schwartz	345	Oct. 11, 1875	8	601
Pennsylvania Collar Co., Phila	Restein Brothers	289	July 27, 1875	8	149
"Pepsinated Food for Infants and Invalids"	A. Garceau	330	Sept. 28, 1875	8	521
"Pequot Cigar. The"	A. Emmerich	420	Dec. 7, 1875	8	947
"Peter's Catarrh Remedy"	C. W. Peters	310	Aug. 24, 1875	8	323
"Pile Extract"	J. Scott	203	July 20, 1875	8	101
"Pivot Brace. The"	National Suspender Company	159	July 20, 1875	8	100
Pure Medicated Brandies	T. Dockum & Son.....	281	July 20, 1875	8	96
"Pure Palm Soap, Made in Liberia, Africa"	E. S. Morris & Co	377	Nov. 9, 1875	8	777
R.					
"Recipe and Directions for making Crystal Maple Sirup"	J. Leonard	324	Sept. 14, 1875	8	439
"Reichardt's Salicylic Horse Cure"	F. A. Reichardt	387	Nov. 16, 1875	8	820
"Relief"	J. B. Ragland	213	July 20, 1875	8	101
"Ribbon Crisp Candy. The celebrated"	C. B. Hill	226	July 20, 1875	8	101
"Ribbons and Dress goods as they appear when Photographed"	D. T. Burrell	363	Nov. 2, 1875	8	730
"Richardson & Robbins Extra Yellow Peaches"	Richardson & Robbins.....	385	Nov. 16, 1875	8	820
"Richardson, Son & Owden. To the wearer. J. N."	J. Bullocke	240	May 18, 1875	7	839
Riebeling, Buffalo. Adam H.	A. H. Riebeling	290	July 27, 1875	8	149
"Right and Left Acorn Butts"	Rick Brothers	426	Dec. 7, 1875	8	947
"Rival—Rival Tobacco, Manufactured by the Merchants' Tobacco Co., Boston, Mass."	Merchant's Tobacco Company	412	Nov. 30, 1875	8	910
"Rose Glycerine Jelly"	W. M. Bickley.....	189	July 20, 1875	8	100
"Rough on Rats"	E. S. Wells	178	July 20, 1875	8	100
"Royal Dietamia or Medicinal Nutritive"	W. G. Cooke.....	416	Dec. 7, 1875	8	946
"Rupert & White's Botanical Liniment"	A. H. White	245	May 18, 1875	7	839
"Russian Water-Proof Leather Preservative"	C. S. Piper	437	Dec. 14, 1875	8	989
"Rutley's Great Cough and Lung Sirup. Dr."	J. H. Ruttlely	161	July 20, 1875	8	100
S.					
"Sachet-Powders. T. Metcalf & Co., Boston"	T. Metcalf & Co.....	370	Nov. 2, 1875	8	730
"Sawyer's Crystal Blue"	H. Sawyer	389	Nov. 16, 1875	8	820
"Sawyer's Crystal Blue"	H. Sawyer	390	Nov. 16, 1875	8	820
"Scott's American Cologne"	A. W. Scott	293	Aug. 3, 1875	8	195
"Scott's Compound Sugar-coated May-Apple Pills. Dr."	J. Scott	278	July 13, 1875	8	49
"Silver-Shine, for Silver, Plated Ware," &c.	J. A. Babcock	427	Dec. 14, 1875	8	989
"Singer & Wheeler. Brilliant White-Oil"	Singer & Wheeler.....	398	Nov. 23, 1875	8	863
"Sisters. Sisters' Tobacco, manufactured by the Merchants' Tobacco Company, Boston, Mass."	Merchants' Tobacco Company	411	Nov. 30, 1875	8	910
"S. K. 110. C. B."	Kebbe, Chaffee & Co	188	July 20, 1875	8	100
"Sorrents Glue-Pot. The"	S. W. Tilton & Co	391	Nov. 16, 1875	8	820
"Specific for the cure of Bronchitis, &c. A"	E. K. Al Burtis	177	July 20, 1875	8	100
"Sperry's Cough and Croup Sirup"	Dr. H. J. Wiers	235	May 11, 1875	7	785
"Sperry's Female Monthly Pills. Dr. I. J."	Dr. H. J. Wiers	237	May 11, 1875	7	785
"Stainless Wool and Spindle Oil"	E. H. Kellogg	362	Oct. 26, 1875	8	689
"Stall's Consummatum Polish"	W. B. Stall	211	July 20, 1875	8	101
"Stall's Consummatum Polish. Directions for Using"	W. B. Stall	212	July 20, 1875	8	101
"Stall's Unrivalled Filling for all Kinds of Hard Wood"	W. B. Stall	182	July 20, 1875	8	100
"Standard Desk-Pad. The"	H. T. Johnson & Co	257	June 15, 1875	7	1014
"Steel's Celebrated Apple Ginger. T. R."	T. R. Steel	463	Dec. 28, 1875	8	1077
"Stevens's Celebrated. 1876. German Stove-Polish. 1776"	B. L. Stevens	164	July 20, 1875	8	100
"Stewart's Teething-Plasters for Children. Dr."	H. P. Stewart	358	Oct. 19, 1875	8	647
"Stir Well Before Pouring"	I. L. Baker	211	July 20, 1875	8	101
"Stringer's Pulmonic Sirup"	Mrs. J. Stringer	255	June 1, 1875	7	927
"Stripped and Guaranteed"	F. & A. McAleer	192	July 20, 1875	8	100
"Sunlight Stove-Blackening"	G. Aschmann	414	Dec. 7, 1875	8	946
"Superior Carriage-Bolts of Best Refined Iron. 50"	Peck, Stow and Wilcox Company	332	Sept. 28, 1875	8	521
"Superior Coloring for Butter"	A. May	242	May 18, 1875	7	839
"Superlative Wool and Spindle Oil"	E. H. Kellogg	341	Oct. 11, 1875	8	601
"Sympathetic Writing-Fluid"	L. Foss	445	Dec. 21, 1875	8	1035
T.					
"Taylor's Compound Sirup of Blood-Root and Tar"	W. S. Taylor	252	May 25, 1875	7	880
"Teinture Française, or French Dye and Finish"	A. K. Brown & Co.....	359	Oct. 26, 1875	8	689
"Teethina. The only Tooth-Powder approved by the Tremont Dentistry of Boston."	J. L. Oliver	331	Sept. 28, 1875	8	521
"Teetzel's Compound Extract of Buchu, Cubebs, and Copaiva"	W. H. Teetzel	325	Sept. 14, 1875	8	440
"Teltow's Blanc Illusion. Henry"	H. Tetlow	451	Dec. 21, 1875	8	1035
"That Liniment. Good for Man or Beast"	Garden & Minor	394	Nov. 23, 1875	8	863
"This case has been regularly stripped and sampled. We guarantee the Sample."	F. & A. McAleer	191	July 20, 1875	8	100

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"This case has been Sampled. Stripped. Sample warranted".....	F. C. Linde & Co.....	160	July 20, 1875	8	100
"Thomas's Specific Preparation, Nos. 1, 2, and 3. For the Hair".....	J. W. Thomas.....	439	Dec. 14, 1875	8	989
"Tibbetts's Pile-Ointment".....	L. Tibbetts.....	438	Dec. 14, 1875	8	989
"Toilet Levigated Soap".....	W. Cranshaw.....	216	July 20, 1875	8	101
"Tremaine's Improved Hair-Oil. Dr.".....	G. W. Gates.....	179	July 20, 1875	8	100
"Triumphant Gas or Domestic Compound for Illuminating Purposes. The.".....	S. B. Farrar & Co.....	366	Nov. 2, 1875	8	730
"Tucker's Chafing-Powder for Old and Young".....	F. Tucker.....	215	July 20, 1875	8	101
"Two Orphans. Cigar. Manufactured by M. J. O'Brien, Binghamton, N. Y.".....	M. J. O'Brien.....	461	Dec. 28, 1875	8	1077
"Tyler's Compound Honey of Boneset".....	Boswell & Huntington.....	190	July 20, 1875	8	100
U.					
"Upham's Malarial or Fever and Ague Sachet".....	S. C. Upham.....	392	Nov. 16, 1875	8	820
V.					
"Van Sicklen's Carbolated Family Salve. Mrs.".....	W. H. Lawrence.....	184	July 20, 1875	8	100
"Vats and appliances for using Jerome Marble & Co.'s Patent Indigo Blue Dye, Worcester, Mass.".....	J. Marble & Co.....	408	Nov. 30, 1875	8	909
Victory. The.....	Harned & Co.....	282	July 20, 1875	8	96
"Vitalized Phosphate".....	F. Crosby.....	229	July 20, 1875	8	101
W.					
Waite's Patent White Felt Wicking.....	J. M. Stewart.....	277	July 13, 1875	8	49
"Wallaces National Approved Heave-Remedy. E. W.".....	E. W. Wallace.....	393	Nov. 16, 1875	8	820
"Warner's Purgative Soda-Water".....	W. R. Warner & Co.....	301	Aug. 10, 1875	8	241
"Warranted 12 Yards".....	Leisler & Sommerhoff.....	263	June 29, 1875	7	1098
"Warrantee".....	Heath, Mead & Co.....	224	July 20, 1875	8	101
Wassley's Alpenkrauter Thee. L.....	L. Herzinger.....	283	July 20, 1875	8	96
"Weaver's Florida Water".....	J. B. Weaver.....	378	Nov. 9, 1875	8	777
"Wengert's Ague-Remedy. Dr.".....	J. J. Ricker & Co.....	207	July 20, 1875	8	101
"Westminster Sauce".....	C. A. Greaves and M. D. Chapman.....	354	Oct. 19, 1875	8	647
"Whisky Antidote".....	G. H. Crawford.....	247	May 25, 1875	7	880
"White Rubber Cement".....	W. C. Byers.....	428	Dec. 14, 1875	8	989
"Wilcox & Co. Prime Leaf-Lard. W. J.".....	W. J. Wilcox & Co.....	313	Aug. 24, 1875	8	323



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